

**DRAFT**



**Valley Water**

**FY 2025-29**

# **Capital Improvement Program**

## **Five-Year Plan**

# **Santa Clara Valley Water District**

## **Fiscal Years 2025-29**

### **Capital Improvement Program**

### **Five-Year Plan**

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**February 27, 2024**



**Valley Water**

Clean Water • Healthy Environment • Flood Protection

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# Overview

# Overview

## OVERVIEW

The Santa Clara Valley Water District's (Valley Water) Capital Improvement Program (CIP) Fiscal Year (FY) 2025-29 Five-Year Plan is a projection of Valley Water's capital funding for planned capital projects from FY 2024-25 through FY 2028-29. The purpose of the CIP is to document planned Valley Water projects to help integrate Valley Water work with the larger community by aligning Valley Water planning with other local agency planning efforts.

Valley Water's CIP is developed following the guidelines of Government Code (GC) § 65403 which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the program be reviewed and updated annually. It also requires circulation of the document to all agencies having land use authority within Valley Water boundaries prior to adoption of the program. This document is intended to provide the information necessary to facilitate planning and construction of water-related infrastructure to meet the needs of Santa Clara County.

The CIP is prepared in accordance with the guidelines established by the Government Finance Officers Association (GFOA). Capital projects in this document are defined by both the accounting criteria for capital investment and the California Public Contract Code definition of public works. They exceed \$50,000 in cost, have long-term life spans and are generally nonrecurring. They usually fall within one of the following six categories:

1. Acquisition of land for public purpose;
2. Construction of a significant facility, i.e. a flood protection facility, a water treatment facility, or a building;
3. Addition to or expansion of an existing facility;
4. Nonrecurring rehabilitation or major repair to all or part of a facility provided the total cost is more than \$50,000;

## SANTA CLARA VALLEY WATER

## Mission

**The mission of Valley Water is to provide Silicon Valley safe, clean water for a healthy life, environment, and economy.**

5. Specific planning, engineering study, or design work related to an individual project which falls within the above categories; and
6. Significant one-time investment in tangible goods of any nature, the benefit of which will accrue over several years. Examples include items such as large initial investments or improvements in technology or the purchase of a new telephone system.

The CIP includes several Small Capital Improvement Projects in the various funds. These projects will be ongoing and will be used to fund multiple small projects to undertake repairs, replacements, and minor modifications to existing water utility, watershed or campus facilities. Small Capital Improvements generally meet the following criteria:

1. Project cost is less than \$5 million (unless otherwise approved by the Board);
2. Project can be completed within two fiscal years; and
3. Rights-of-way acquisition is not required.

The proposed funding for the Water Supply Small Capital Improvement projects is anticipated to vary each year based on the

work identified in the Water Utility Asset Management Plan. The Small Capital Improvement Projects under Buildings & Grounds and Information Technology are funded at a flat rate each year. Unspent funds in these projects will not carry forward from previous years.

There are some miscellaneous capital expenditures incurred by Valley Water that are not captured in the CIP. These capital expenditures include certain components of water purchases, indirect costs to manage and train staff that are fully engaged in capital work, and routine replacement of vehicles and large equipment.

## ALIGNMENT WITH ENDS POLICIES

Valley Water plans, manages and carries out capital improvements to comply with the Ends Policies and Executive Limitations established by its Board of Directors.

# Overview

Under Valley Water's Policy Governance Model, Ends Policies describe the outcomes or results to be achieved by Valley Water staff. The Executive Limitations balance the Ends Policies and set limits on staff activities in fulfilling them.

Program plans, master plans and the asset management plan are developed to achieve the results established by the Ends Policies and to further define the goals and objectives of each Ends Policy. The Board either formally approves the plans or provides direction to staff, confirming the goals and objectives. These plans then become the basis for staff to propose and develop individual capital projects. Project ideas that are proposed by Operations staff must be vetted via a feasibility study and then validated to prepare a business case for proceeding with a capital investment. Some high-profile feasibility studies are included in the CIP. Alignment of the CIP with program or master plans provides a direct link to Ends Policies and ensures Valley Water's long-term capital investments are planned and executed according to the Board's priorities. Three Ends Policies directly drive program or master plans and the types of capital improvements described in the CIP:

- Ends Policy E-2 "Valley Water provides a reliable, safe, and affordable water supply for current and future generations in all communities served."
- Ends Policy E-3 "Natural flood protection is provided to reduce risk and improve health and safety for residents, businesses, and visitors, now and into the future."
  - E-3.1 "Maintain flood protection facilities to design levels of protection."
  - E-3.2 "Assist people, businesses, schools, and communities to prepare for, respond to, and recover from flooding through equitable and effective engagement."
  - E-3.3 "Increase the health and safety of residents countywide by reducing community flood risk."
- Ends Policy E-4 "Water resources stewardship protects and enhances ecosystem health."

(See flowchart "CIP Process Alignment with Ends Policies" on page I-6)

## CIP PLANNING PROCESS

Valley Water conducts an annual planning process for its CIP. The purpose of the CIP Planning Process is to ensure the

capital projects included in the CIP:

- Meet the Board's priorities and contribute to the objectives of Valley Water's various programs;
- Have identified funding for the duration of the projects; and
- Are coordinated with the local jurisdiction's General Plans.

The CIP Planning Process is carried out in accordance with the following Executive Limitations:

- Executive Limitation EL-4.4.1., "A BAO shall produce an annual Rolling Five-Year Capital Improvement Plan with the first year serving as the adopted capital budget and the remaining years in place as a projected capital funding plan."
- Executive Limitation EL-4.4.3., "A BAO shall demonstrate to the Board the planned expenditures for the identified and selected capital projects in the Rolling Five-Year Capital Improvement Plan are aligned with the Board's Ends Policies"

The annual CIP Process is the responsibility of the CIP Group comprised of division managers, with the responsibility to initiate or implement capital projects. The detailed process is a documented QEMS procedure. It includes the following key steps:

- Management review and approval, to ensure staff proposed projects are aligned with Board policies and approved program plans;
- Validation of projects to ensure there is a business case for doing the project and that a capital investment is the best solution;
- Review of all projects, including continuing and newly proposed projects, to ensure the projects in the CIP reflect Board priorities;
- Financial analysis, to determine the capacity of Valley Water's capital funding sources to fund the proposed capital projects;
- Review of impacts the completed capital project will have on the Operations and Maintenance resources.
- Outreach to local jurisdictions with land use authority, within Santa Clara County, to coordinate Valley Water's Capital Improvement Program with their General Plans;
- Board review and direction at appropriate steps, to ensure the CIP reflects Board policies and priorities; and

# Overview

- Board adoption of the CIP Five-Year Plan.

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a CIP Draft Five-Year Plan in February. The CIP Draft Five-Year Plan serves as a multi-year plan, and together with other long-term planning efforts of Valley Water, is the basis for the budget for the following fiscal year. This CIP Draft Five-Year Plan is also reviewed by local jurisdictions for consistency with their General Plans. While the CIP Draft Five-Year Plan is being reviewed by the cities and County, the budget is reviewed and finalized. The Board concludes the outreach of the CIP Draft Five-Year Plan with a public hearing. The first year of the CIP is reconciled with the budget; the Resolution to adopt the CIP Final Five-Year Plan and the budget are presented to the Board for approval in May.

## **Board Direction and CIP Outreach**

The Board has many opportunities each year to provide direction on projects contained in the CIP Five-Year Plan. The CIP Five-Year Plan is developed in parallel with the budget and the water rates. It is presented to the Board for review and input on multiple occasions throughout the development process. Early in the Validation Process, the list of newly proposed projects is presented to the Board so they can provide direction to staff, followed by Board workshops to review the CIP Preliminary Five-Year Plan to ensure that the document is developed in accordance with Board priorities. The direction received is used to develop the CIP Draft Five-Year Plan which is reviewed by the Board before staff is authorized to release the document for public review. Following a public hearing, the Board approves the resolution to adopt the CIP Final Five-Year Plan in May.

The Board CIP Committee meets throughout the year to review and discuss information related to the development and implementation of the CIP and provide input to staff. The Committee provides recommendations on issues ranging from project implementation, to resource utilization and funding sources or distribution. The Committee's recommendations are presented to the Board for direction on incorporation into the CIP Five-Year Plan document or implementation by staff.

On January 9, 2024, the CIP Preliminary FY 2025-29 Five-Year Plan project list was reviewed and endorsed by the Board. Four new projects were added to the project list, the SCADA

Master Plan Implementation Project (SMPIP) Upgrades - Phase 1, San Jose Purified Water Project (SJPWP) - Phase 1, Coyote 10B Freshwater Wetlands Project, and Regnart Creek Rehabilitation Project (F8).

The SMPIP Upgrades - Phase 1 Project will upgrade aging Supervisory Control and Data Acquisition System (SCADA) communications and implement additional backup control center capabilities for SCADA. The estimated project cost is \$10.43 million and the project duration is expected to last 9 years.

The San Jose Purified Water Project (SJPWP) - Phase 1 will construct a Demonstration Facility to ensure successful implementation of a SJPWP - Phase 2 (Full-Scale Facility), as well as, ensure that the future direct potable reuse facility will meet new regulations to protect public health and provide reliable drought-proof water supplies for our county. The estimated project cost is \$48.97 million and the project duration is expected to last 6 years.

The Coyote 10B Freshwater Wetlands Project will meet mitigation requirements for the multi-year Stream Maintenance Program (SMP-3) from 2027-2037 in the Santa Clara Basin. The Project will create seven acres of freshwater wetland, one acre of upland habitat and one and half acres of channel with inclusion of fisheries habitat features. The estimated project cost is \$8.90 million and the project duration is expected to last 4 years.

The SCW Regnart Creek Rehabilitation Project (F8) will implement the renewed Safe, Clean Water objectives for the Sustainable Creek Infrastructure for Continued Public Safety Project (F8). The Project will reduce the risk of bank failures that can impact adjacent properties and apply geomorphic principles to reduce the frequency of erosion recurrence. The estimated project cost is \$8.97 million and the project duration is expected to last 3 years.

The following are highlights of changes from the previous year that have been approved as the basis for the CIP Draft FY 2025-29 Five-Year Plan:

- To fully fund the Water Supply projects in the CIP FY 2025-29 Five-Year Plan, the Board preliminarily proposed increases in groundwater production charges for FY 2024-25 of 12.9% in North County Zone W-2, 6.6% in South County Zone W-5, 14.2% in South County Zone

# Overview

W-7, and 8% in South County Zone W-8.

- The following significant project changes are driving the groundwater production charges:
  - The Almaden-Calero Canal Rehabilitation Project increased in cost by \$4.52 million.
  - The Anderson Dam Seismic Retrofit Project increased in cost by \$894.39 million.
  - The Anderson Dam Tunnel Project increased in cost by \$6.67 million.
  - The Coyote Pumping Plant ASD Replacement Project increased in cost by \$36.98 million.
  - The Small Capital Improvements, Water Treatment Project increased in cost by \$12.61 million.
  - The 10-Year Pipeline Rehabilitation (FY 2018-27) Project increased in cost by \$15.97 million.
  - The Almaden Valley Pipeline Replacement Project increased in cost by \$5.96 million.
  - The IRP2 Additional Line Valves (A3) Project increased in cost by \$8.61 million.
  - The Vasona Pump Station Upgrade Project increased in cost by \$5.68 million.
  - The RWTP Reliability Improvement Project increased in cost by \$94.69 million.
  - The Water Treatment Plant Electrical Improvement Project increased in cost by \$1.93 million.
  - The Palo Alto Purified Water Project decreased in cost by approximately \$1.157 billion.
- The following are highlights of significant project changes under Flood Protection and Water Resources Stewardship:
  - The Guadalupe River, Tasman Drive to I-880 Project increased in cost by \$3.88 million.
  - The Berryessa Creek, Lower Penitencia Creek to Calaveras Blvd, Phase 2 Project increased in cost by \$1.60 million.
  - The Llagas Creek, Upper, Reimbursable Project increased in cost by approximately \$2 million.
  - The SF Bay Shoreline, EIAs 5-9 (E7) Project increased in cost by \$2.32 million.
  - The Small Capital Improvements, Watersheds Asset Rehabilitation Program (WARP) increased in cost by

\$12.30 million.

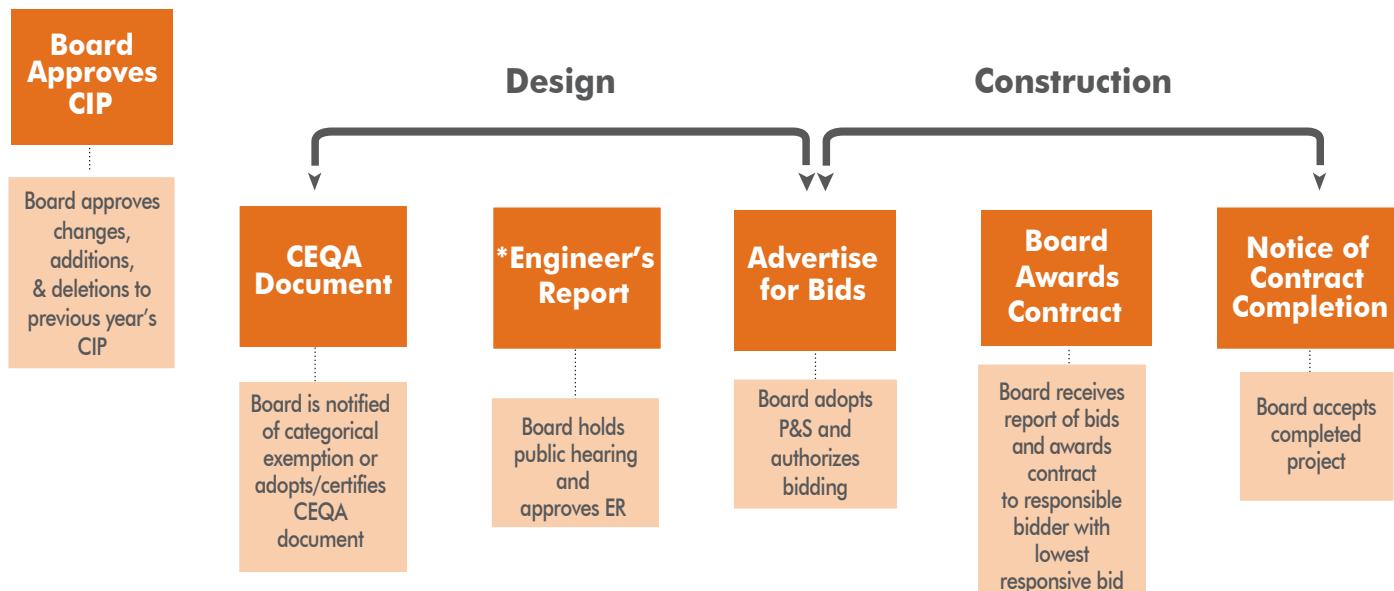
- The following are highlights of significant project changes under Information Technology:
  - The Software Upgrades and Enhancements Project increased in cost by \$6.46 million.
  - The WU Network Modernization Project increased in cost by \$10.89 million.
- Infrastructure construction projects in the CIP FY 2025-29 Five-year Plan are experiencing significant cost increases due to construction inflation escalation factor increases, volatile market conditions, and an unstable labor force.
- Seven projects were completed in the CIP FY 2024-28 Five-Year Plan. The Cross Valley Pipeline Extension (under ADSRP), Coyote Warehouse, Almaden Lake Improvements, RWTP Residuals Remediation, Permanente Creek-S.F. Bay to Foothill Expressway, Berryessa Creek-Lower Penitencia Creek to Calaveras Boulevard, Phase 1, and IT Disaster Recovery projects are planned to be completed at the close of fiscal year 2024.

Additional information regarding project changes can be found in each chapter overview.

# Overview

Projects in the CIP are typically divided up into planning, design and construction phases. The Board may determine not to implement a project based on various considerations, such as financial constraints, environmental impacts, Operations and Maintenance, or community desire during a project's planning or design phases. The Board has various opportunities to provide direction and approval of capital projects as shown in the graphic below.

## OPPORTUNITIES FOR BOARD DIRECTION ON CAPITAL PROJECTS



\* Board approval of the Engineer's Report is required only on projects with zone funding.

# Overview

## CIP PROCESS ALIGNMENT WITH ENDS POLICIES



# Overview

## FISCAL YEARS 2025-29 CIP SUMMARY

The recommended CIP FY 2025-29 Five-Year Plan includes 73 priority projects to implement the goals and objectives of Valley Water's program plans and master plans. These projects are grouped into five types of improvements:

- **Water Supply Capital Improvements**  
37 projects contributing to Ends Policy E-2
- **Flood Protection Capital Improvements**  
15 projects contributing to Ends Policy E-3
- **Water Resources Stewardship Capital Improvements**  
13 projects contributing to Ends Policy E-4
- **Buildings & Grounds Capital Improvements**  
3 projects supporting Valley Water efforts to achieve the Ends Policies
- **Information Technology Capital Improvements**  
5 projects supporting Valley Water efforts to achieve the Ends Policies

Each of the 73 projects in the CIP has an identified funding source based on the type of improvement or function of the project.

The principal sources of revenue for Valley Water are property taxes; a special parcel tax, which funds the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program); and water production charges for use of groundwater, treated water, and surface water. These revenues are organized into eight funds. Seven of the eight funds have a specific purpose and only finance the operational and capital expenditures related to that purpose.

In 2008, the Board decided to combine the individual watershed funds into a county-wide watershed and stream stewardship fund to send the message that the watershed activities are managed for the benefit of the County. This also streamlines most tracking and accounting activities for staff. Valley Water continues to receive a small amount of revenue from benefit assessments that were approved by voters in the 1980s and 1990s. These funds are dedicated to specific watersheds and the accounting practices to ensure that they are spent and accounted for appropriately have been kept in place. As shown in the chart below, five of the eight funds are used to finance the five types of capital improvements in the CIP Five-year Plan.

Valley Water aggressively pursues external funding to supplement its principal revenue when practical. For a complete listing of grants and partnerships, (see Appendix A).

A number of Valley Water projects are receiving substantial State funding through grants:

- \$504 million for Pacheco Reservoir from the California Water Commission;
- \$35 million for Upper Berryessa, Lower Berryessa, Lower Penitencia, and Cross Valley Pipeline Extension from DWR; and
- \$61 million for San Francisco Bay Shoreline (Phase I) Project from the San Francisco Bay Restoration Authority.

In addition to Valley Water funding sources, Valley Water has entered into a flexible, low cost Water Infrastructure Finance and Innovation Act (WIFIA) master loan

VALLEY WATER PRIORITIES	Valley Water Funds					
	Type of Improvement	Water Utility Enterprise Fund	Watershed Stream Stewardship Fund	General Fund	Safe, Clean Water Fund	Information Technology Fund
Water Supply	●				●	
Flood Protection		●			●	
Water Resources Stewardship	●	●			●	
Buildings & Grounds				●		
Information Technology	●					●

The chart above identifies which types of improvement are associated with each of Valley Water's five capital funds.

# Overview

agreements with the United States Environmental Protection Agency (EPA) that will provide up to:

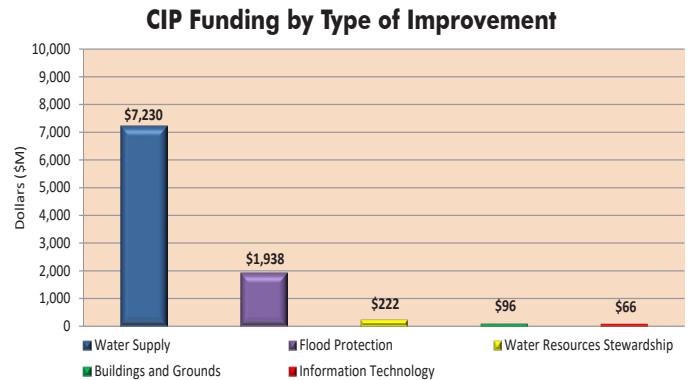
- \$580 million loan funding for the Anderson Dam Seismic Retrofit Project and the Coyote Percolation Dam Replacement Project with a projected final payoff of the loan occurring in 2067.
- \$146 million loan funding for the Sunnyvale East and West Channels Flood Protection Project, the Coyote Creek Flood Protection Project, and the Upper Penitencia Creek Project with a projected final payoff of the loan occurring in 2063.
- \$1.4 billion loan funding for the Pacheco Reservoir Expansion Project with a projected final payoff of the loan occurring in 2067.

The estimated total funding required to implement the 73 projects defined in the CIP is \$10.028 billion. Valley Water has been and continues to be successful in leveraging funding for its capital projects through partnerships with federal, state, and local agencies. Of the \$10.028 billion total funding, \$1.205 billion is expected from Valley Water's various partners, such as the U.S. Army Corps of Engineers (USACE), and \$8.823 billion from Valley Water.

A list of projects that are funded cooperatively with Valley Water's partners is summarized in Appendix A. Funding from partners for the cooperative capital projects generally come in two ways:

- Funds that are made available by the partners when needed (cost-sharing agreements or in-kind services), or
- Funds that are reimbursed by the partners after Valley Water advances the needed funds.

Of the \$1.205 billion that is expected from Valley Water's partners, \$729 million is advanced by Valley Water and reimbursed later. This \$729 million is included in the CIP, and increases Valley Water's total funding requirement from \$8.823 billion to \$9.552 billion, to ensure that Valley Water has adequate funding to advance the reimbursement.

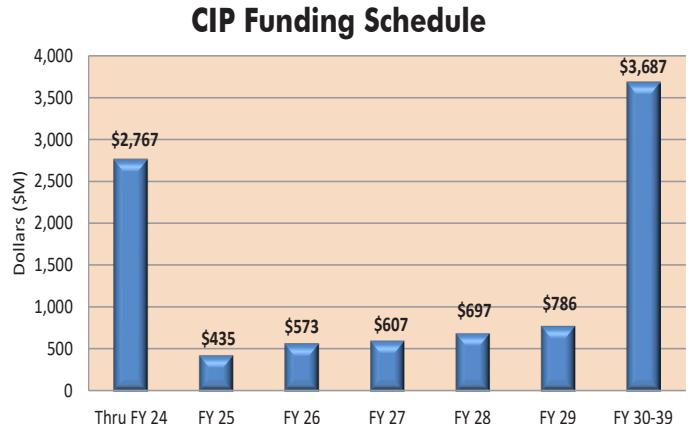


The chart above shows the distribution by type of improvement, of the \$9.552 billion total CIP funding as planned in the FY 2025-29 CIP.

The chart "CIP Funding by Type of Improvement" shows how the \$9.552 billion to implement the 73 projects is allocated to each of the five types of improvements.

Of the \$9.552 billion in total funding for the 73 projects identified in the CIP, the Board has appropriated \$2.767 billion in prior years (through June 30, 2024, the end of FY 2023-24). This year's CIP process identified additional funding needs of \$6.785 billion to complete the projects in the CIP, with \$435 million allocated in FY 2024-25 and a total of \$6.350 billion proposed for future years.

The table "CIP Funding Schedule by Type of Improvement and Funding Sources" shown on page I-9 breaks down the fiscal year total by the five types of improvement and by applicable funding sources.



The chart above shows how the \$9.552 billion is distributed by fiscal year.

# Overview

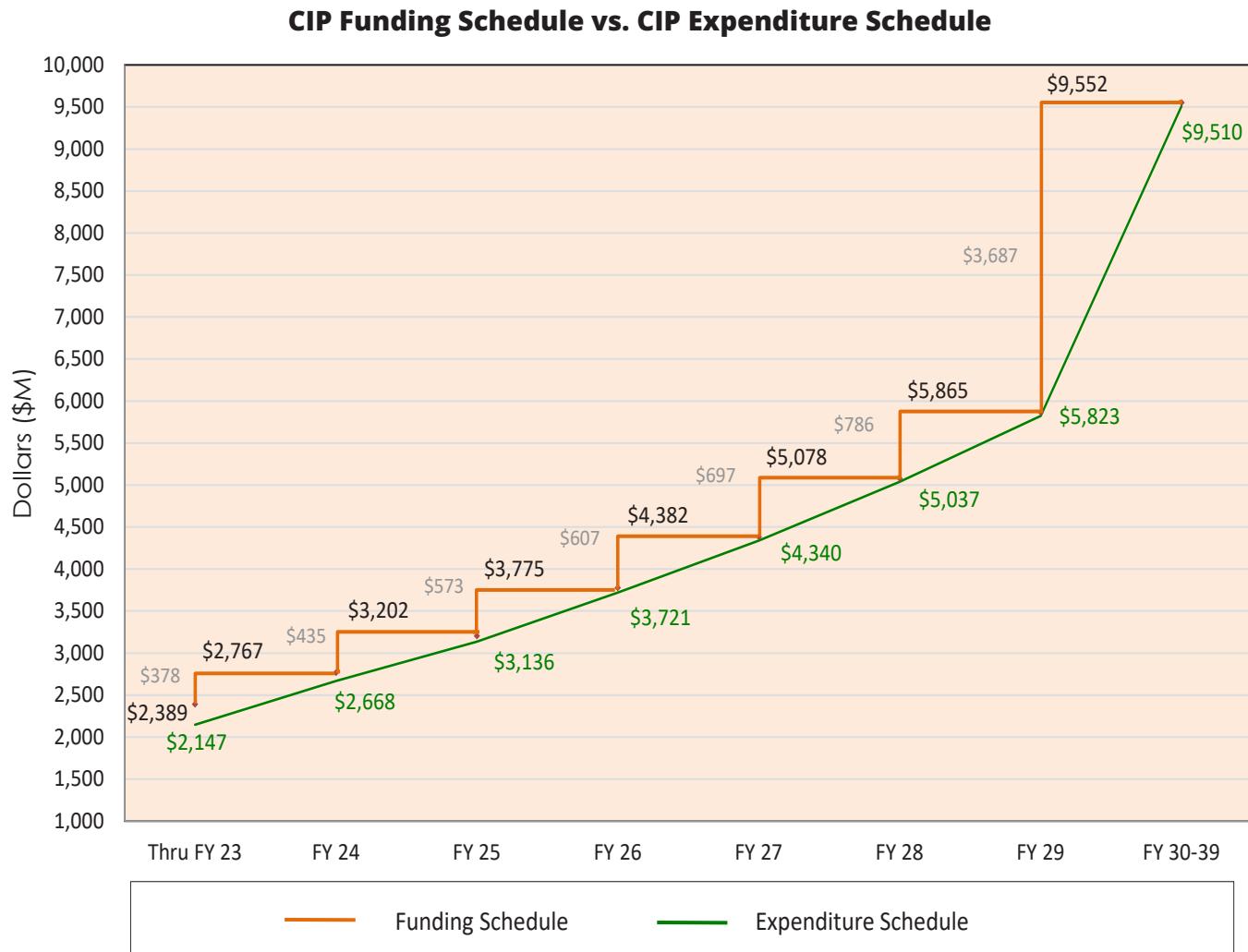
## CIP Funding Schedule by Type of Improvement and Funding Sources (\$K)

	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	TOTAL
<b>WATER SUPPLY</b>										
Water Utility Enterprise Fund	1,182,129	304,006	28,960	280,538	373,090	457,717	598,844	724,427	3,283,352	7,204,101
Safe, Clean Water and Natural Flood Protection Fund	3,814	3,558	-	9,497	3,794	4,090	578	111	-	25,442
<b>Water Supply Total</b>	<b>1,185,943</b>	<b>307,564</b>	<b>28,960</b>	<b>290,035</b>	<b>376,884</b>	<b>461,807</b>	<b>599,422</b>	<b>724,538</b>	<b>3,283,352</b>	<b>7,229,543</b>
<b>FLOOD PROTECTION</b>										
Watershed Stream Stewardship Fund	386,418	18,140	1,992	23,693	40,190	12,958	40,938	40,146	246,513	808,996
Safe, Clean Water and Natural Flood Protection Fund	705,679	35,841	39,013	104,562	127,017	104,974	32,684	9,082	8,954	1,128,793
<b>Flood Protection Total</b>	<b>1,092,097</b>	<b>53,981</b>	<b>41,005</b>	<b>128,255</b>	<b>167,207</b>	<b>117,932</b>	<b>73,622</b>	<b>49,228</b>	<b>255,467</b>	<b>1,937,789</b>
<b>WATER RESOURCES STEWARDSHIP</b>										
Water Utility Enterprise Fund	765	-	-	-	-	3,414	4,824	2,079	42,034	53,116
Watershed Stream Stewardship Fund	9,102	6,140	-	4,854	4,994	5,725	3,815	3,681	34,049	72,361
Safe, Clean Water and Natural Flood Protection Fund	64,913	4,899	27,689	3,297	10,422	4,859	35	694	7,904	97,023
<b>Mitigation Total</b>	<b>74,780</b>	<b>11,039</b>	<b>27,689</b>	<b>8,151</b>	<b>15,416</b>	<b>13,998</b>	<b>8,674</b>	<b>6,454</b>	<b>83,987</b>	<b>222,499</b>
<b>BUILDINGS AND GROUNDS</b>										
General Fund	4,414	4,314	1,395	5,806	10,559	12,236	13,630	4,958	40,032	95,949
<b>Buildings and Grounds Total</b>	<b>4,414</b>	<b>4,314</b>	<b>1,395</b>	<b>5,806</b>	<b>10,559</b>	<b>12,236</b>	<b>13,630</b>	<b>4,958</b>	<b>40,032</b>	<b>95,949</b>
<b>INFORMATION TECHNOLOGY</b>										
Water Utility Enterprise Fund	4,270	-	7	2,021	2,448	7	550	426	14,187	23,909
Information Technology Fund	27,034	1,383	123	678	677	715	754	792	10,337	42,370
<b>Information Technology Total</b>	<b>31,304</b>	<b>1,383</b>	<b>130</b>	<b>2,699</b>	<b>3,125</b>	<b>722</b>	<b>1,304</b>	<b>1,218</b>	<b>24,524</b>	<b>66,279</b>
<b>TOTAL</b>	<b>2,388,537</b>	<b>378,281</b>	<b>99,179</b>	<b>434,946</b>	<b>573,191</b>	<b>606,695</b>	<b>696,652</b>	<b>786,395</b>	<b>3,687,362</b>	<b>9,552,058</b>
<b>CUMULATIVE TOTAL</b>	<b>2,388,537</b>	<b>2,766,818</b>	<b>297,537</b>	<b>3,201,764</b>	<b>3,774,954</b>	<b>4,381,649</b>	<b>5,078,302</b>	<b>5,864,697</b>	<b>9,552,058</b>	

  FY 2023-24 Funds to be reappropriated

## Overview

As shown in table "CIP Funding Schedule by Type of Improvement and Funding Sources" on page I-9, approximately \$99 million of the already appropriated \$2.767 billion is not spent and is reappropriated to FY 2024-25 for continued use in those same projects in amounts consistent with the project expenditure schedule for FY 2024-25. The following chart explains the relationship between the CIP Funding Schedule and CIP Expenditure Schedule.



# Water Supply

# Water Supply Capital Improvements

## WATER SUPPLY OVERVIEW

Valley Water manages and operates a complex and integrated water supply infrastructure, including storage, transmission, treatment, and recycled water facilities, to meet the Board's Ends Policy E-2, "Valley Water provides a reliable, safe, and affordable water supply for current and future generations in all communities served."

### Storage Facilities

- 10 surface reservoirs
- 393 acres of recharge ponds
- 76 miles of in-stream recharge
- Ground water basins

### Transmission Facilities

- 142 miles of pipelines
- 3 pump stations

### Treatment Facilities

- 3 treatment plants

### Recycled Water Facilities

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Distribution System

Planning, design and construction of the above facilities took decades of effort. Beginning in the 1930s, reservoirs and recharge ponds were built to halt depletion of the ground water basin and subsidence, followed by pipelines and treatment plants to bring in state and federal water to meet growing water demands in the County.

In the early 1990s, Valley Water embarked on new and challenging capital improvements to upgrade its three drinking water treatment plants in order to meet new Environmental Protection Agency rules for improved water quality required by 1996 amendments to the Safe Drinking Water Act. Fifteen years of effort and capital funding brought the upgrades at Penitencia and Santa Teresa Water Treatment Plants to completion. Delivery of ozonated water produced at these two treatment plants began in 2006.

The Rinconada Water Treatment Plant (RWTP) was built in the late 1960s and is reaching the end of its useful life. A number of projects to upgrade and improve operations have been completed. The RWTP Reliability Improvement Project will add raw water ozonation, construct new flocculation and plate settler clarification, and dual media filtration facilities. It

will also increase plant capacity from 80 to 100 million gallons per day. Construction of this Project began in the summer of 2015. Phases 1 and 2 were completed in early 2021. For Phases 3 through 6, the construction completion is currently anticipated for 2029.

With a significant portion of the Water Supply infrastructure approaching 50 to 60 years of age, maintaining and upgrading the existing infrastructure to ensure each facility functions as intended for its useful life became the focus of the Water Supply CIP in recent years.

Valley Water owns and operates ten dams. While these dams provide water supply, flood management, recreation, and environmental flow benefits, there are consequences and costs for dam ownership. Knowledge of seismic stability design and construction was very rudimentary during the design and construction of Valley Water dams in the 1930s and 50s. Both liquefaction of dam embankments and foundations and embankment stability must be addressed for seismic stability. Several of Valley Water's reservoirs have had operating restrictions imposed by the Department of Safety of Dams (DSOD) while an engineering analysis of how Valley Water's dams would perform under a major seismic event is completed and appropriate corrective actions are implemented.

On November 26, 2010, the Board was informed that Anderson Dam will require a seismic retrofit and the operating restriction was increased to 45 feet below the crest of the dam. Since this briefing, a consultant has determined that a magnitude 7.2 Maximum Credible Earthquake on nearby Calaveras Fault could cause a deformation (slumping) of the dam crest by 25 feet. The Anderson Dam Seismic Retrofit Project was initiated in January 2011. While work on the project was underway, Valley Water received a directive on February 20, 2020 from the Federal Energy Regulatory Commission to implement interim risk reduction measures, including the Anderson Dam Tunnel Project to construct a diversion to augment the existing outlet.

Valley Water completed a seismic stability evaluation of Almaden, Calero, and Guadalupe Dams in late 2010. Almaden Dam was found to be seismically stable; however both Calero and Guadalupe Dams will require seismic retrofitting to meet DSOD performance criteria. A project was initiated in fiscal year 2013 to address the Calero and Guadalupe Dams

# Water Supply Capital Improvements

retrofit needs. A separate capital project to address outlet and spillway improvements at Almaden Dam, the Almaden Calero-Canal Rehabilitation was initiated in fiscal year 2024. Seismic stability evaluations were conducted at Lenihan and Stevens Creek Dams. Both were found to be seismically stable.

In April 2017, the Governor of California ordered detailed evaluations of large spillway structures at all high-hazard dams. Spillway evaluations are required on 9 of Valley Water's 10 dams. The spillway evaluation for 7 dams have been incorporated into existing projects and a separate contract for the spillway evaluation of the Lenihan and Stevens Creek dams has been formed.

Valley Water is partnering with Pacheco Pass Water District and San Benito County Water District for the Pacheco Reservoir Expansion Project. This Project will encompass the acquisition and expansion of this reservoir from 6,000 AF to 140,000 AF and will provide water quality benefits, operational flexibility, emergency storage, flood protection, and ecosystem benefits. On July 24, 2018, the California Water Commission awarded \$484.55 million to support the project, including an early funding award of \$24.2 million. In February 2021, the maximum conditional eligibility determination was increased to \$496.7 million to reflect an inflation adjustment of 1%.

The key driver for Water Supply projects is the Water Supply Master Plan, which includes three strategies to ensure sustainability: secure water supply; expand water supply through water conservation, stormwater capture and potable reuse projects; and optimize existing infrastructure.

## **Major Capital Improvements Identified in the CIP**

The majority of capital projects included in the CIP Five-Year Plan are related to asset management, which replaces aging equipment and facilities, infrastructure reliability, which protects the county's baseline water supply, or addressing the future water supply needs of the county, in alignment with Valley Water's Water Supply Master Plan 2040. Listed below are the Water Supply capital projects included in the CIP Draft FY 2025-29 Five-Year Plan:

### **Storage**

- Almaden Dam Improvements
- Anderson Dam Seismic Retrofit (C1)

- Anderson Dam Tunnel
- Coyote Creek Flood Management Measures
- Coyote Creek Chillers
- Coyote Percolation Dam Replacement
- Cross Valley Pipeline Extension
- Calero and Guadalupe Dams Seismic Retrofits
- Coyote Pumping Plant ASD Replacement
- Coyote Warehouse
- Dam Seismic Stability Evaluation
- Small Capital Improvements, San Felipe Reaches 1-3
- Pacheco Reservoir Expansion (A1)

### **Transmission**

- 10-Year Pipeline Rehabilitation
- Almaden Valley Pipeline Replacement Project
- Distribution System Master Plan Implementation
- FAHCE Implementation
- IRP2 Additional Line Valves (A3)
- Pacheco/Santa Clara Conduit Right of Way Acquisition
- SCADA Master Plan Implementation
- SMPIP Upgrades - Phase 1
- Small Capital Improvements, Raw Water Transmission
- Small Capital Improvements, Treated Water Transmission
- Treated Water Isolation Valves
- Vasona Pump Station Upgrade

### **Water Treatment Plants (WTP)**

- Penitencia WTP Residuals Management
- Rinconada WTP Residuals Remediation
- Rinconada Ammonia Storage & Metering Facility Upgrade
- Rinconada WTP Reliability Improvement
- Small Capital Improvements, Water Treatment
- Santa Teresa WTP Filter Media Replacement Project
- WTP Electrical Improvement Project
- WTP Master Plan Implementation

### **Recycled Water**

- San Jose Purified Water Project (SJPWP) - Phase 1
- Land Rights - South County Recycled Water Pipeline
- South County Recycled Water Pipeline

## **Capital Investments Not Included in the CIP**

Valley Water is currently engaged in planning for future water supply needs of the county. This effort includes updating the Water Supply Master Plan 2040, which was approved by the Board on November 20, 2019. Development of the Water Supply Master Plan 2050 was initiated in 2023 and is expected

# Water Supply Capital Improvements

to conclude in 2024, with updated recommendations on water supply projects and portfolios.

The following capital water supply projects are being led by other agencies, with Valley Water's participation being evaluated in the Water Supply Master Plan 2050. As Valley Water is not the project owner and only contributing funds through partnership agreements, these projects are not included in the CIP Five-Year Plan, but rather are included in Valley Water's operating budget forecasts:

- Los Vaqueros Reservoir Expansion Project
- Delta Conveyance Project
- B.F. Sisk Dam Raise and Reservoir Expansion Project

## *Operations and Maintenance Costs*

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Throughout the various phases of a capital project, projections of this impact are regularly considered and updated as needed to reflect changes in project elements.

## **CIP PLANNING PROCESS AND FINANCIAL ANALYSIS**

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a CIP Draft Five-Year Plan in February.

The Board then authorizes release of the CIP Draft Five-Year Plan to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the CIP Final Five-Year Plan in May.

Based on the feedback from the FY 2006-07 CIP and Board direction, a concerted effort was made to develop a multi-year water charge structure that would support the priority work of the water utility business. Staff analyzed both immediate requirements and anticipated future needs to support operations and the continued appropriations for capital investment needed to maintain infrastructure and comply with water quality regulations. Each year staff reviews Board priorities, the financial needs of the Water Utility Enterprise Fund, current political and economic factors and updates the multi-year structure. The rate structure for the first year is recommended to the Board for adoption during the annual rate setting process.

While Valley Water has one Water Utility Fund, Valley Water has multiple zones of benefit for the purposes of setting groundwater production charges. The North County Zone is very different from the South County Zone in that the water infrastructure is substantially separate and distinct with an entirely different cost of providing service. For example, the north zone overlays the Santa Clara groundwater subbasin and is much more densely populated, requiring a large amount of imported water from outside the county to provide a reliable water supply. To receive, filter and distribute the imported water, Valley Water chose to build three water treatment plants and a network of raw water and treated water distribution pipelines many decades ago. Conversely, the South County overlays the Coyote Valley (southern Santa Clara subbasin) and the Llagas groundwater subbasins and is more sparsely populated. South County communities rely almost entirely on groundwater, with small amounts of raw surface water and recycled water. A small amount of recycled water is served in the Gilroy area. No treated water is served in South County, so water utility infrastructure primarily supports the storage and distribution of local and imported surface water for groundwater recharge.

The financial analysis of the Water Utility Enterprise Fund, the funding source for the water supply capital improvements, is conducted in conjunction with the groundwater production charge process. Valley Water's Board of Directors were presented a number of water charge scenarios on January 9, 2024. The annual Protection and Augmentation of Water Supplies Report (PAWS) outlines the staff-proposed municipal and industrial (M&I) groundwater production charges for FY 2024-25 of 12.9% in North County Zone W-2, 6.6% in South County Zone W-5, 14.2% in South County Zone W-7, and 8% for South County Zone W-8.

In addition to Valley Water funding sources, Valley Water has entered into a flexible, low cost Water Infrastructure Finance and Innovation Act (WIFIA) master loan agreement with the Environmental Protection Agency (EPA) that commits up to \$580 million to provide upfront funding for the Anderson Dam Seismic Retrofit Project and the Coyote Percolation Dam Replacement Project with final payoff of the loan occurring in 2067.

## *Significant Project Updates From Prior Year*

Updates to capital project plans are considered to be significant if total project costs (TPC) increase or decrease (inflated)

# Water Supply Capital Improvements

more than \$1 million, project completion is extended beyond one year, or if there are any changes to project scope. Listed below are the changes to projects from the CIP Adopted FY 2024-28 Five-Year Plan:

## Capital Improvement Project Updates

- The Almaden Dam Improvements Project decreased in cost by \$20.87 million. At the May 2023 CIP Committee meeting, there was a recommendation to separate the Canal rehabilitation work from the Dam improvements work. The Canal portion of the scope and expenditures is being removed from this Project and added to a new project for the Canal work, named Almaden-Calero Canal Rehabilitation.
- The Almaden-Calero Canal Rehabilitation Project increased in cost by \$4.52 million. The project scope and expenditures for the canal rehabilitation was extracted from the Almaden Dam Improvements Project. The project team reevaluated the estimated project cost, as the project has been on hold. The Project requires additional funding for Valley Water labor in the Environmental and Design Phases.
- The Anderson Dam Seismic Retrofit (C1) Project increased in cost by \$894.39 million due to additional risk measures and design developments, material costs, and anticipated contractor markups. The Federal Energy Regulatory Commission (FERC) National Environmental Policy Act (NEPA) process could potentially take up to two years to issue Work Authorization in order for the project to move forward. The completion dates for the Environmental, Design, Right-of-Way, Construction, and Closeout Phases have been updated to reflect an estimated Work Authorization date. The end date of the Environmental Phase was extended through the construction of ADSRP to reflect the FERC Order Compliance Project (FOCP) environmental mitigation and monitoring activities that are not directly related to ADSRP construction activities. The overall schedule is extended by 1.5 years.
- The Anderson Dam Tunnel Project increased in cost by \$6.67 million due to additional right(s)-of-way, re-design work, Valley Water staff resources, and consultant agreement amendments. The overall schedule is extended by 8 months.
- The Cross Valley Pipeline Extension Project schedule was extended by one year due to various factors, including; COVID-19-related Valley Water Furnished Material delivery delays, challenges in obtaining permitting, increased flows from storms and subsequent dam releases, delays in two PG&E electric service installations, and Contractor delays in pipeline installation and subsequent contract work. Despite these adjustments, there is no change to the Total Project Cost.
- The Calero Dam Seismic Retrofit Project (Design & Construction) increased in cost by \$22.01 million due to the engagement of a new design consultant, prompted by Valley Water's decision to advance the design process that had been on hold since 2020. Additional cost increases are attributed to inflation, with the construction contract moved into future fiscal years (FY32 through FY35).
- The Coyote Pumping Plant ASD Replacement Project increased in cost by \$36.98 million due to updated design and construction costs based on the latest Design-Builder's Cost Estimate. The schedule changes are attributed to long lead times for material procurement and construction occurring in two shutdown windows, leading to a shift in the subsequent milestone.
- The 10-Year Pipeline Rehabilitation Project increased in cost by \$15.97 million due to changes in project scope, major flooding and effects of inclement weather, securing permits and associated fees, procuring a new consultant to develop an independent cost estimate, as well as Post-COVID inflation and supply chain challenges attributed to higher than expected bid results.
- The Almaden Valley Pipeline Replacement Project increased in cost by \$5.96 million. This 21-year project plan was initiated in FY20 and extends to FY41, which goes beyond the 15-year CIP window. With each rollover period, the CIP adds the upcoming FY planned expenditures from the original project plan. This update adds FY39 into the 15-year projection window. The overall schedule remains the same, but the construction start was moved up from FY 29 to FY 28 due to the early completion of the first phase's design.

# Water Supply Capital Improvements

- The Distribution System Master Plan Implementation Project increased in cost by \$566 thousand due to delays in performing a raw water demand study, conducting hydraulic model verification, and setting up a desktop condition assessment framework. Adjustments to the estimated time for initiating and preparing a PEIR, resulted in an overall project schedule delay of 2 years.
- The IRP2 Additional Line Valves (A3) Project increased in cost by \$8.61 million due to costs for various permits, inspection fees, lease agreements and electrical service installations. Post-COVID inflation and supply chain challenges attributed to higher than expected bid results and as a result, future line valve installations are being adjusted to reflect these cost increases.
- The SCADA Master Plan Implementation Project increased in cost by \$21 thousand due to a significant implementation of the development and deployment of secure information handling systems and procedures necessary because of the sensitive nature of the SCADA system information. Implementation of these measures were necessary before consultants could commence their work, which delayed the overall schedule by 1 year, as well as the time it took to substitute and onboard a new project manager from the consultant team.
- The Vasona Pump Station Upgrade Project increased in cost by \$5.68 million due to extra design time required to incorporate scope changes, the change in the project delivery method from Design-Build to Design-Bid-Build, including the onboarding of a design consultant, as well as the inclusion of a public hearing and Board approval of the CEQA documents. The overall schedule is extended by 2 years.
- The RWTP Reliability Improvement Project increased in cost by \$94.69 million due to a construction bid approximately 17% higher than the Engineer's estimate of \$260 million. Additional increases are attributed to significant inflation in the construction contract for Phases 3-6, with a construction cost escalation factor of 12% in FY24.
- The Water Treatment Plants Electrical Improvement Project increased in cost by \$1.93 million due to a scope change request for additional MCC upgrades, preparation of an RFP for a design consultant, and Valley Water labor for various tasks in the Planning and Design Phases. The overall schedule is extended by 1 year.
- The Palo Alto Purified Water Project (PAPWP) has been excluded from the CIP Draft FY 2025-29 Five-Year Plan and placed on the unfunded list for further review and evaluation as the new, Board approved, first phase of a direct potable reuse project, the San Jose Purified Water Project (SJPWP) - Phase 1 (Demonstration Facility), will be included in the CIP Draft FY 2025-29 Five-Year Plan.

## ***Small Capital Improvement Project Updates***

Small Capital project forecasts undergo annual revisions, adjusting asset rehabilitation projects based on asset condition and project requirements, and updating project costs according to market conditions. These revisions to both schedule and costs result in several minor changes in expected expenditures over the forecasted period.

- Small Capital Improvements, San Felipe Reaches 1-3 Project decreased in cost by \$8.10 million.
- Small Capital Improvements, Raw Water Transmission Project decreased in cost by \$1.78 million.
- Small Capital Improvements, Water Treatment Project increased in cost by \$12.61 million.

## ***New Capital Improvement Projects Included***

In FY 2024-25, two new Water Supply capital projects were approved by the Board for inclusion in the CIP Draft FY 2025-29 Five-Year Plan., the SCADA Master Plan Improvements Project (SMPIP) Upgrades - Phase 1 Project and the San Jose Purified Water Project (SJPWP) - Phase 1 Project.

- The SCADA Master Plan Improvements Project (SMPIP) Upgrades - Phase 1 will upgrade aging Supervisory Control and Data Acquisition System (SCADA) communications and implement additional backup control center capabilities for SCADA. The estimated project cost is \$10.43 million and the project duration is expected to last up to 9 years.
- In alignment with new regulations allowing for direct potable reuse, the Board approved the first phase of a direct potable reuse project, the San Jose Purified Water

## Water Supply Capital Improvements

Project (SJPWP) - Phase 1 (Demonstration Facility), for inclusion in the CIP. The Phase 1 Demonstration Facility will ensure that the future direct potable reuse facility will meet these new regulations to protect public health and provide reliable drought-proof water supplies for our

county. The demonstration facility will also make sure a future full-scale facility is designed in the most cost-effective way, ensure we have operators that can run the facility, and continue to provide public education and outreach on potable reuse.

# Water Supply Capital Improvements

The following table is a project funding schedule for water supply capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2023-24.

## Water Supply Capital Improvements

Project Number	Project Name	Through FY23	FY24*	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
<b>STORAGE FACILITY</b>											
91854001	Almaden Dam Improvements	9,744	58	483	-	-	4	175	182	30,298	40,461
91854003	Almaden Calero Canal Rehabilitation	5,028	138	-	696	724	18,801	1	-	-	25,388
91864005	Anderson Dam Seismic Retrofit (C1)	186,038	26,734	7,217	45,111	159,851	211,183	212,087	251,575	806,562	1,899,139
91864006	Anderson Dam Tunnel	149,603	59,589	4,317	42,426	973	404	-	-	-	252,995
91864007	Coyote Creek Flood Management Measures	29,182	56,135	-	31,420	555	118	35	-	-	117,445
91864008	Coyote Creek Chillers	19,687	3,229	581	555	-	-	-	-	-	23,471
91864009	Coyote Percolation Dam Replacement	5,167	12,496	-	73	-	-	-	-	-	17,736
91864010	Cross Valley Pipeline Extension	11,902	-	-	-	-	-	-	-	-	11,902
91084020s	Calero and Guadalupe Dams Seismic Retrofits	36,682	1,173	1,914	3,120	3,245	3,472	13,962	26,576	196,312	284,542
91234002	Coyote Pumping Plant ASD Replacement	13,662	13,060	4,976	21,029	9,862	4,403	2,900	-	-	64,916
91234011	Coyote Warehouse	9,844	-	-	-	-	-	-	-	-	9,844
91084019	Dam Seismic Stability Evaluation	23,070	127	-	299	500	394	409	4,612	1,882	31,293
91214010s	Small Capital Improvements, San Felipe Reach 1-3	n/a	7,005	-	3,146	97	3,412	13,500	14,093	31,754	73,007
91954002	Pacheco Reservoir Expansion Project (A1)	102,620	41,996	-	19,053	16,380	25,498	237,231	338,507	1,965,453	2,746,738
<b>TRANSMISSION FACILITY</b>											
95084002	10-Year Pipeline Rehabilitation (FY18-FY27)	104,781	35,799	-	19,610	9,152	1,565	-	-	-	170,907
92304001	Almaden Valley Pipeline Replacement Project	1,588	1,677	-	2,129	2,214	2,522	2,254	19,606	87,295	119,285
95044001	Distribution System Master Plan Implementation	5,970	1,932	56	631	657	135	-	-	-	9,325
92C40357	FAHCE Implementation	-	-	-	-	-	4,739	4,379	14,691	121,299	145,108
26764001	IRP2 Additional Line Valves (A3)	3,814	3,558	-	9,497	3,794	4,090	578	111	-	25,442
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	5,840	74	493	228	-	-	-	-	-	6,142
95044002	SCADA Master Plan Implementation	5,320	389	704	50	728	-	-	-	-	6,487
95044004	SMPIP Upgrades - Phase 1	-	-	-	586	552	1,270	1,295	1,358	5,364	10,425
92764009	Small Capital Improvements, Raw Water Transmission	n/a	1,020	-	2,274	919	731	866	791	7,106	13,707
94764006	Small Capital Improvements, Treated Water Transmission	n/a	276	-	104	45	-	47	41	268	781
94084007	Treated Water Isolation Valves	1,271	609	-	2,012	1,887	584	1,907	201	-	8,471
92264001	Vasona Pump Station Upgrade	4,750	-	535	1,170	1,774	11,337	14,528	3,245	-	36,804
<b>TREATMENT FACILITY</b>											
93234044	PWTP Residuals Management	4,133	1,488	-	9,398	17,551	8,924	-	-	-	41,494
93294051s	RWTP Residuals Remediation	80,232	1,210	5,656	-	-	-	-	-	-	81,441
93294057	RWTP Reliability Improvement	278,522	22,221	-	66,210	121,474	126,350	63,193	44,406	152	722,528
93294059	RWTP Ammonia Storage & Metering Facility Upgrade	-	630	-	478	545	2,944	2,297	-	-	6,894
93764004	Small Capital Improvements, Water Treatment	n/a	3,397	-	5,748	10,561	5,980	1,208	2,688	29,607	59,189
93284013	STWTP Filter Media Replacement Project	14,924	5,099	699	574	-	-	-	-	-	20,597
93084004	Water Treatment Plant Electrical Improvement Project	3,938	-	1,118	671	5,928	5,146	4,730	30	-	20,443
93044001	WTP Master Plan Implementation	5,404	3,057	211	517	283	-	-	-	-	9,261
<b>RECYCLED WATER FACILITY</b>											
91294001	San Jose Purified Water Project (SJPWP) - Phase 1	-	-	-	1,040	6,490	17,778	21,841	1,825	-	48,974
91094001	Land Rights - South County Recycled Water PL	3,807	3,010	-	9	-	-	-	-	-	6,826
91094007s	South County Recycled Water Pipeline	59,421	379	-	171	143	23	-	-	-	60,136
<b>TOTAL</b>	<b>1,185,943</b>	<b>307,564</b>	<b>28,960</b>	<b>290,035</b>	<b>376,884</b>	<b>461,807</b>	<b>599,422</b>	<b>724,538</b>	<b>3,283,352</b>	<b>7,229,543</b>	

\*FY 2024 Adjusted Budget includes adopted budget plus budget adjustments

FY 2023-24 Funds to be reappropriated

# Water Supply Capital Improvements

The following table shows funding requirements from each funding source for water supply capital.

**Water Supply - Funding Source (\$K)**

Fund Number	Fund Name	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
61	Water Utility Enterprise Fund	1,182,129	304,006	28,960	280,538	373,090	457,717	598,844	724,427	3,283,352	7,204,101
26	Safe, Clean Water and Natural Flood Protection Fund	3,814	3,558	0	9,497	3,794	4,090	578	111	-	25,442
	<b>TOTAL</b>	<b>1,185,943</b>	<b>307,564</b>	<b>28,960</b>	<b>290,035</b>	<b>376,884</b>	<b>461,807</b>	<b>599,422</b>	<b>724,538</b>	<b>3,283,352</b>	<b>7,229,543</b>

*FY 2023-24 Funds to be reappropriated*

# Storage Facilities



**Project**

**Almaden Dam Improvements**

**Program**

Water Supply – Storage

**Project No.**

91854001

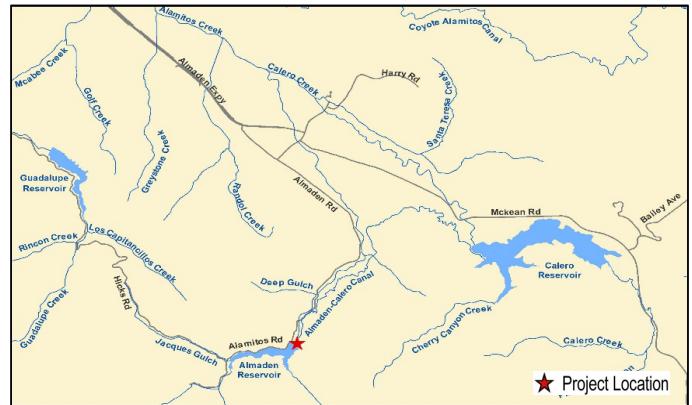
**Contact**

Ryan McCarter

rmccarter@valleywater.org



Aerial view of Almaden Dam and spillway,  
and part of the reservoir



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Almaden Dam outlet works to accomplish the following objectives:

- Modify or construct a new intake structure, capable of releasing 246 cubic feet-per-second of water without flushing of sediments through the outlet works
- Correct existing problems with the outlet energy dissipation structure, piping and valves

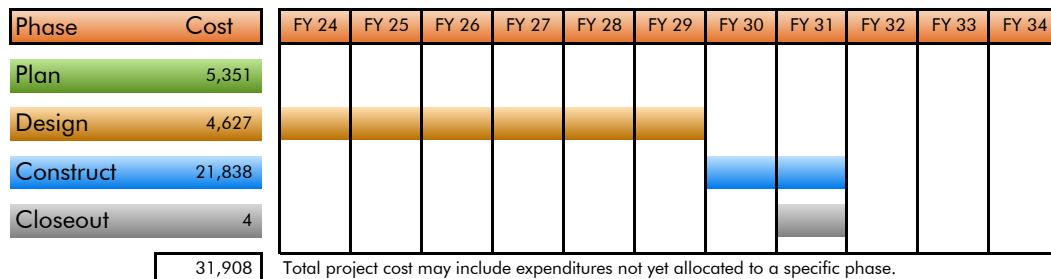
## OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately \$2,000 per year, beginning in FY31.

**USEFUL LIFE:** 50+ Years

**SCHEDULE & STATUS**

July 1995 to June 2031



Total project cost may include expenditures not yet allocated to a specific phase.

**EXPENDITURE SCHEDULE**

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
91854001-Almaden Dam Improvements	9,268	50	150	150	150	150	150	21,841	31,908	
with inflation	9,268	50	156	162	169	175	182	30,299	40,461	

Actuals include project expenditures and encumbrances.

**FUNDING SCHEDULE**

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
					FY24	FY25	FY26	FY27	FY28	FY29	
91854001-Almaden Dam Improvements	9,744	58	483	0	0	4	175	182	30,299	40,461	

Adjusted Budget includes adopted budget plus approved budget adjustments.

**FUNDING SOURCES**

(in thousands \$)

SCVWD Water Utility Enterprise Fund	40,461
Other Funding Source	0
<b>Total</b>	<b>40,461</b>

Project

**Almaden-Calero Canal Rehabilitation**

Program

Water Supply – Storage

Project No.

91854003

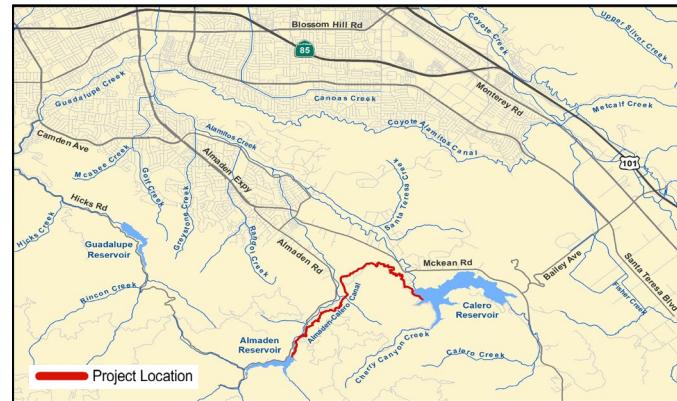
Contact

Emmanuel Aryee

[earyee@valleywater.org](mailto:earyee@valleywater.org)



Cracks and separated lining in the canal



Location Map

## PROJECT DESCRIPTION

This project plans, designs and constructs improvements to the Almaden-Calero Canal to restore operational capacity to the Almaden-Calero Canal and stabilize and improve maintenance access, including the following:

- Replace the entire canal terminal structure and the liner along the full length of the Canal
- Construct a new access road from the existing parking lot to the steel flume
- Regrade and resurface the existing maintenance road, with aggregate base wearing course
- Replace the existing drains for the siphons to dewater properly
- Scale the uphill slope, install rockfall mesh, and install a buried elliptical pipe or box culvert
- Construct additional emergency overflow structures to reduce the overtopping risks

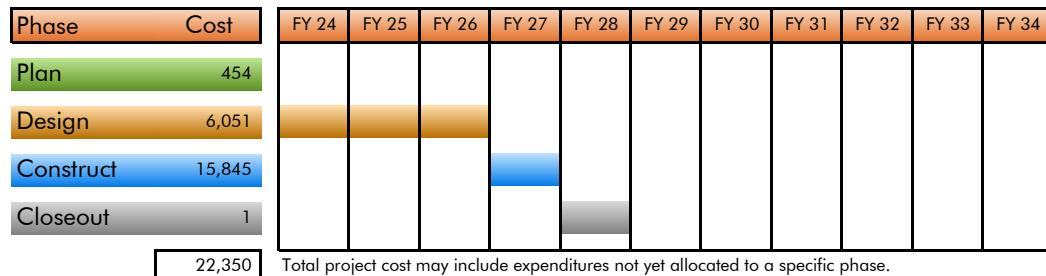
## OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately \$2,000 per year, beginning in FY28.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

July 2023 to June 2028



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
91854003-Almaden-Calero Canal Rehabilitation	5,028		138	670	670	15,845	1	0	0	22,350
with inflation	5,028		138	696	724	18,801	1	0	0	25,388

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
91854003-Almaden-Calero Canal Rehabilitation	5,028	138	0	696	724	18,801	1	0	0	25,388

Adjusted Budget includes adopted budget, plus a planned budget adjustment of \$138,000.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	25,388
Other Funding Source	0
<b>Total</b>	<b>25,388</b>

Project  
Program  
Project No.

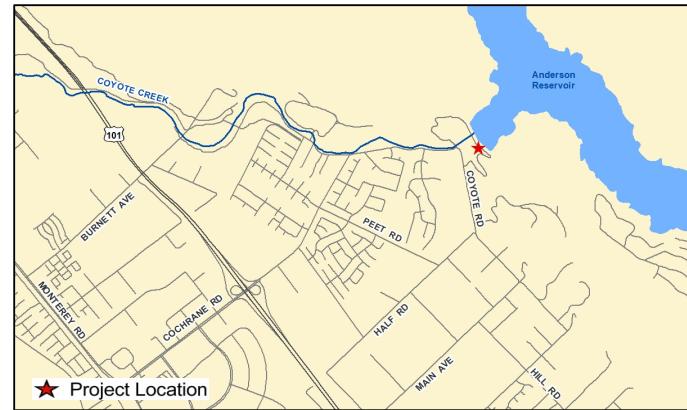
## Anderson Dam Seismic Retrofit (C1)

Water Supply – Storage  
91864005

Contact      Ryan McCarter      [rmccarter@valleywater.org](mailto:rmccarter@valleywater.org)



Aerial view of Anderson Dam, spillway, and part of the reservoir



Location Map

### PROJECT DESCRIPTION

The project plans, designs, and constructs improvements to Anderson Dam to address seismic performance concerns and rehabilitate aging appurtenant facilities.

The project will accomplish the following objectives:

- Replace most of the existing embankment dam with a well-compacted, zoned embankment dam to withstand the Maximum Credible Earthquake (MCE)
- Replace the existing outlet works to withstand the MCE and meet current California Department of Water Resources, Division of Safety of Dams (DSOD) emergency drawdown requirements
- Replace the existing spillway to convey the probable maximum flood
- Restore lost reservoir storage capacity from restrictions issued by DSOD and an order issued by Federal Energy Regulatory Commission (FERC)

In accordance with Federal regulations, this project includes the construction of subprojects as part of the Federal Energy Regulatory Commission Order Compliance Project (FOCP). These are:

- FOCP Anderson Dam Tunnel;
- FOCP Coyote Percolation Dam Replacement;
- FOCP Cross Valley Pipeline Extension;
- FOCP Coyote Creek Flood Management Measure; and
- FOCP Coyote Creek Chillers.

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project C1. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

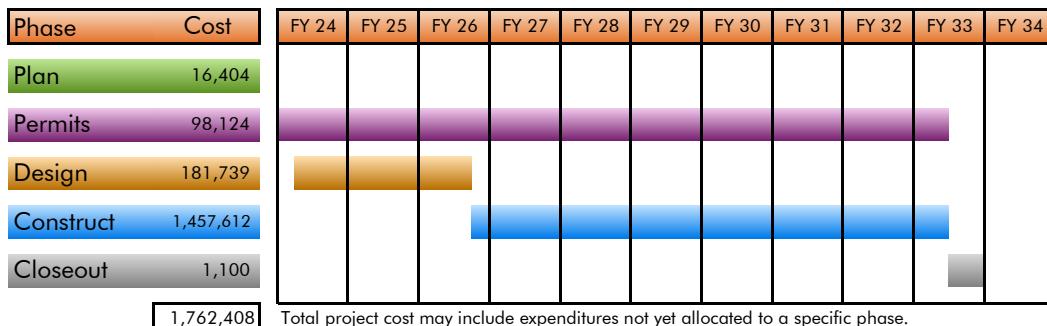
### OPERATING COST IMPACTS

Operating costs impacts are anticipated and will be determined upon completion of the construction phase.

**USEFUL LIFE:**    50+ Years

## SCHEDULE & STATUS

January 2011 to December 2033



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
91864005-Anderson Dam Seismic Retrofit (C1)	181,116	24,436	47,625	146,698	198,698	198,398	234,138	731,302	1,762,408
with inflation	181,116	24,436	52,328	159,851	211,183	212,087	251,575	806,563	1,899,139

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
					FY24	FY25	FY26	FY27	FY28	FY29	
91864005-Anderson Dam Seismic Retrofit (C1)	186,035	26,734	7,217	45,111	159,851	211,183	212,087	251,575	806,563	1,899,139	

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	1,831,085
SCVWD Safe Clean Water Fund	68,054
Other Funding Sources	0
<b>Total</b>	<b>1,899,139</b>

Valley Water estimates total debt service payment for this project's portion of the WIFIA loan would be \$573,500,000 in principal, plus \$1,100,000,000 in interest, for a total of \$1,700,000,000 with final payoff of the loan occurring in 2067.

**Project**  
**Program**  
**Project No.**

## **Anderson Dam Tunnel**

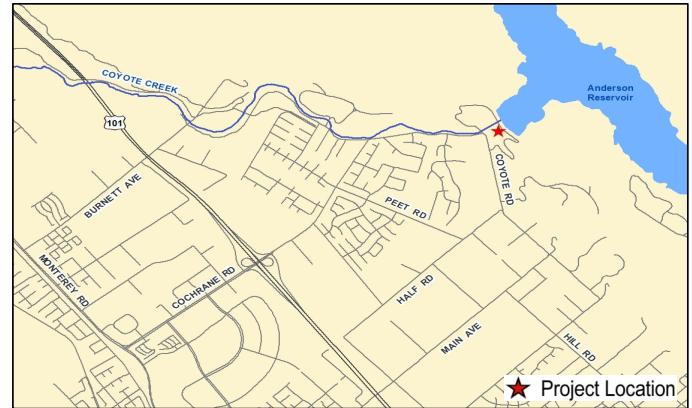
Water Supply – Storage

91864006

**Contact** Ryan McCarter [rmccarter@valleywater.org](mailto:rmccarter@valleywater.org)



Aerial view of Anderson Dam Tunnel outlet portal work area



Location Map

## **PROJECT DESCRIPTION**

Valley Water is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020 directive from the Federal Energy Regulatory Commission (FERC) to implement interim risk reduction measures at Anderson Dam. One of those measures is the Anderson Dam Tunnel Project (ADTP).

The ADTP will construct a diversion system to augment the existing outlet, which will consist of a new diversion tunnel, an outlet structure, a micro-tunnel lake tap, and modifications to Coyote Creek just downstream of the base of the dam. The ADTP also includes reservoir bank and rim stability improvements and existing intake structure modification.

The project objectives include:

- Comply with the FERC February 20, 2020 order and construct a new outlet system to augment the existing outlet
- Reopen the historic northern channel to convey the diversion flows anticipated during the Anderson Dam Seismic Retrofit Project (ADSRP)
- Remediate existing landslides that are in close proximity to existing residential structures
- Reinforce the existing intake structure

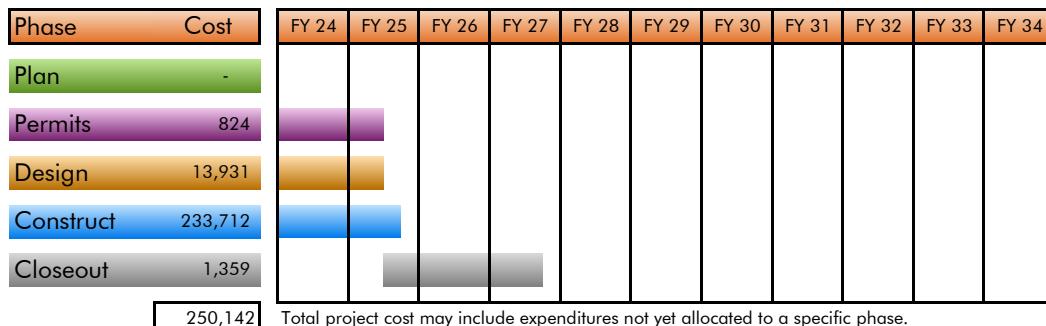
## **OPERATING COST IMPACTS**

Operating costs impacts are anticipated and will be determined upon completion of the construction phase.

**USEFUL LIFE** 50+ Years

## SCHEDULE & STATUS

February 2020 to February 2027



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
91864006-Anderson Dam Tunnel	144,868	60,007	44,007	900	359	0	0	0	250,142
with inflation	144,868	60,007	46,743	973	404	0	0	0	252,995

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
					FY24	FY25	FY26	FY27	FY28	FY29	
91864006-Anderson Dam Tunnel	149,603	59,589	4,317	42,426	973	404	0	0	0	0	252,995

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	252,995
Other Funding Sources	0
<b>Total</b>	<b>252,995</b>

Project  
Program  
Project No.

## Coyote Creek Flood Management Measure

Flood Protection - Multiple Watersheds  
91864007

Contact Bhavani Yerrapotu byerrapotu@valleywater.org



Floodwall surrounding Coyote Creek outdoor classroom



Location Map

### PROJECT DESCRIPTION

Valley Water is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020 directive from the Federal Energy Regulatory Commission (FERC) to implement interim risk reduction measures at Anderson Dam. One of those measures is the Coyote Creek Flood Management Measures Project (CCFMMP).

The goal of this project is to reduce the risk of flooding to homes, schools, businesses, and highways in the Coyote Creek floodplain from flows anticipated from the tunnel built as part of Anderson Dam Tunnel Project. This project plans, designs and constructs improvements for approximately 4 miles of Coyote Creek from Old Oakland Road to Interstate 280 in San José, California. Coyote Creek Flood Protection Project (CCFPP), when combined with this project will provide flood protection from floods up to the level that occurred on February 2017, equivalent to approximately a 5% flood (20-year event) for 9 miles of Coyote Creek from Montague Expressway to Tully Road.

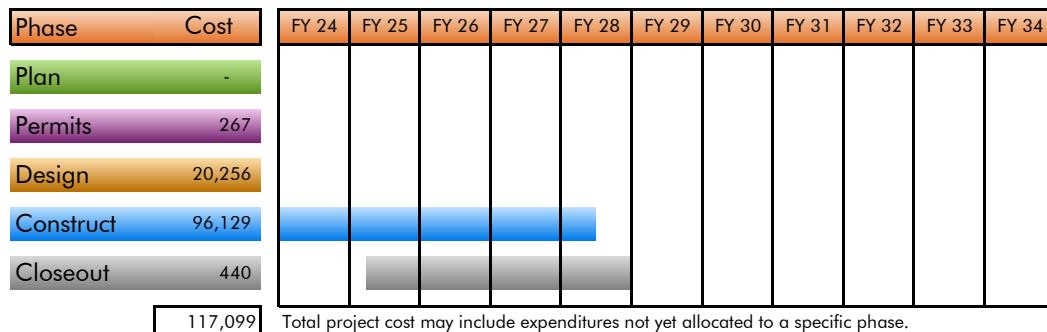
### OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$425,000 per year, beginning in FY28.

**USEFUL LIFE:** 30 Years

## SCHEDULE & STATUS

February 2020 to June 2028



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24		FY25	FY26	FY27	FY28	FY29	
91864007-Coyote Creek Flood Management Measure	21,946		63,371	31,134	513	105	30	0	0	117,099
with inflation	21,946		63,371	31,419	555	118	35	0	0	117,445

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests								Total
				FY23	FY24		FY25	FY26	FY27	FY28	FY29	
91864007-Coyote Creek Flood Management Measure	29,182	56,135	0	31,420	555	118	35	0	0	0	0	117,445

Adjusted Budget includes adopted budget, plus a planned budget adjustment of \$2,144,000.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	117,445
Other Funding Sources	0
<b>Total</b>	<b>117,445</b>

Project  
Program  
Project No.

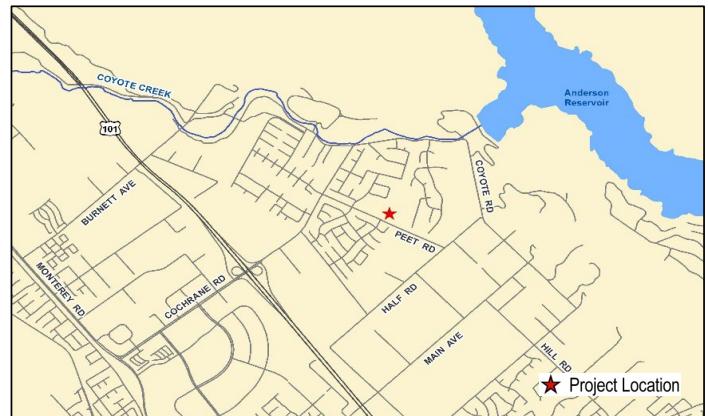
Coyote Creek Chillers  
Water Supply – Storage  
91864008

Contact

Ryan McCarter  
rmccarter@valleywater.org



Example of Modular Chiller Plant



Location Map

## PROJECT DESCRIPTION

Valley Water is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020 directive from the Federal Energy Regulatory Commission (FERC) to implement interim risk reduction measures at Anderson Dam. One of those measures is the Coyote Creek Steam Augmentation Fish Project Measure Chillers Plan Project (Coyote Creek Chillers).

The Project includes installation of a Modular Chiller Plant (MCP) at the southwest corner of the existing Coyote Pumping Plant, which consists of three (3) 1,500-ton capacity water-cooler packaged chillers, with one (1) of the three (3) being used as a redundant chiller unit. A new 24-inch pipe will be installed to connect to an existing 36-inch nozzle on the Cross Valley Pipeline, to allow the chillers to receive imported water.

The project objectives include:

- Cool up to 10 cfs of raw water from 25°C to 16°C with the operation of two chillers units, which would be released at the end of the wet season and continue through the onset of the winter rains (four to five months per year)
- Chill imported water from the Cross Valley Pipeline and deliver the chilled water to the Coyote Creek to provide suitable cold-water habitat to support rainbow trout (*Oncorhynchus mykiss*) rearing, within the Creek's functional cold water management zone effectively ends at the upstream end of Ogier Ponds

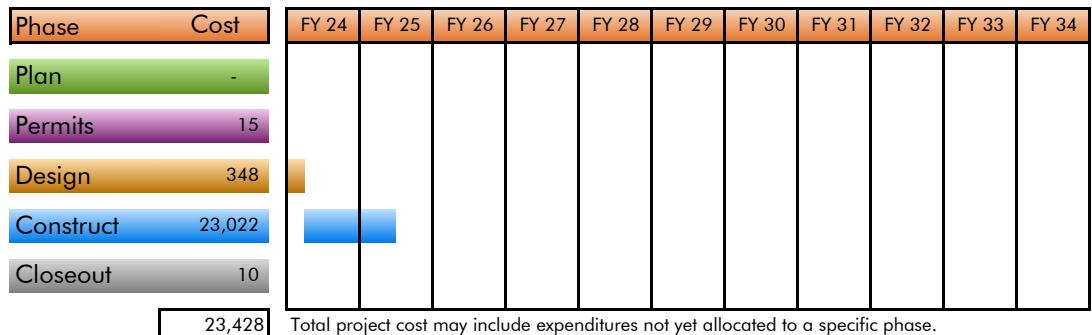
## OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the construction phase.

**USEFUL LIFE:** 10 Years

## SCHEDULE & STATUS

July 2020 to December 2024



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
91864008-Coyote Creek Chillers	14,182	8,154	1,092	0	0	0	0	0	23,428
with inflation	14,182	8,154	1,136	0	0	0	0	0	23,472

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru FY23	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
				FY24	FY25	FY26	FY27	FY28	
91864008-Coyote Creek Chillers	19,687	3,229	581	555	0	0	0	0	23,472

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	23,472
Other Funding Sources	0
<b>Total</b>	<b>23,472</b>

Project  
Program  
Project No.

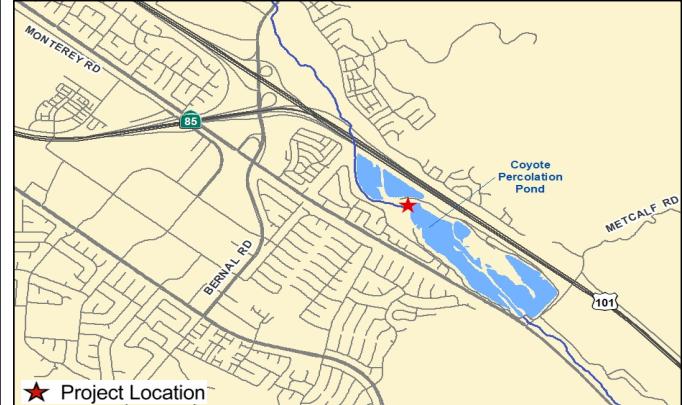
## Coyote Percolation Dam Replacement

Water Supply – Storage  
91864009

Contact Bhavani Yerrapotu byerrapotu@valleywater.org



Downstream view of Coyote Percolation Dam, fish ladder, and rock slope protection



Location Map

## PROJECT DESCRIPTION

Valley Water is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020 directive from the Federal Energy Regulatory Commission (FERC) to implement interim risk reduction measures at Anderson Dam. One of those measures is the Coyote Percolation Dam Replacement Project.

The current Coyote Percolation Dam is a flashboard dam used to impound water in the Coyote Percolation Pond, an in-stream pond in Coyote Creek just north of Metcalf Road. Operation of the proposed Anderson Dam tunnel would result in flows well beyond the safe operating capabilities of Coyote Percolation Dam. The maximum release capacity of 2,500 cfs (new tunnel and existing outlet capacity combined) would overwhelm the Coyote Percolation Dam and removing the dam altogether would compromise Valley Water's ability to recharge the groundwater basins. To protect against risks to groundwater recharge and water supply reliability, this Project would replace the existing flashboard dam with an inflatable bladder dam that could quickly be raised when inflows are low (to facilitate percolation) and then lowered to allow higher flows to pass safely. Completion of the bladder dam facilities is necessary by 2024, when the Anderson Dam outlet tunnel would be finished.

This project designs and constructs to accomplish the following objectives:

- Maximize the use of the pond without increasing the risk of flooding by efficiently and safely deflating the bladder dam during high flow events
- Preserve Valley Water's ability to impound water and maximize percolation into the groundwater basin
- Improve fish passage during low pond level events by replacing stationary panels with adjustable panels
- Perform operations and maintenance in a more environmentally sensitive manner by minimizing the need for instream construction equipment or activities

## OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the construction phase.

**USEFUL LIFE:** Rubber Dam - 25 Years  
Concrete Structures - 50 Years

## SCHEDULE & STATUS

June 2020 to December 2024

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	-											
Permits	-											
Design	2,216											
Construct	15,506											
Closeout	-											
	17,733											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
91864009-Coyote Percolation Dam Replacement	4,854	12,810	70	0	0	0	0	0	17,733
with inflation	4,854	12,810	72	0	0	0	0	0	17,736

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru FY23	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY24	FY25	FY26	FY27	FY28	FY29	
91864009-Coyote Percolation Dam Replacement	5,167	12,496	0	73	0	0	0	0	0	17,736

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	17,736
Other Funding Sources	0
<b>Total</b>	<b>17,736</b>

Valley Water estimates total debt service payment for this project's portion of the WIFIA loan would be \$6,500,000 in principal, plus \$12,000,000 in interest, for a total of \$18,500,000 with final loan payoff occurring in 2067.

Project

**Cross Valley Pipeline Extension**

Program

Water Supply – Storage

Project No.

91864010

Contact

Ryan McCarter

rmccarter@valleywater.org



View looking downstream of Coyote Creek  
at the outfall of CVPE



Location Map

## PROJECT DESCRIPTION

Valley Water is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020 directive from the Federal Energy Regulatory Commission (FERC) to implement interim risk reduction measures at Anderson Dam. One of those measures is the Cross Valley Pipeline Extension Project (CVPEP).

The CVPEP entails constructing a new pipeline to convey imported water from the Cross Valley Pipeline to Coyote Creek to supplement flows during construction of the ADSRP downstream of Ogier Ponds. The Project scope includes constructing an outfall which will include an energy dissipator, and creek bank improvements.

The project objectives include:

- Construct 7,100-feet of 36-inch diameter welded steel pipeline between the existing Cross Valley Pipeline, at the intersection of Hale Avenue and San Bruno Avenue, and Coyote Creek
- Deliver imported water through the new pipeline extension to supplement flows in Coyote Creek during drought, dry seasons, and during the 10-year construction of the Anderson Dam Seismic Retrofit Project (ASDRP)

This project is anticipated to be completed and closed by June 30, 2024.

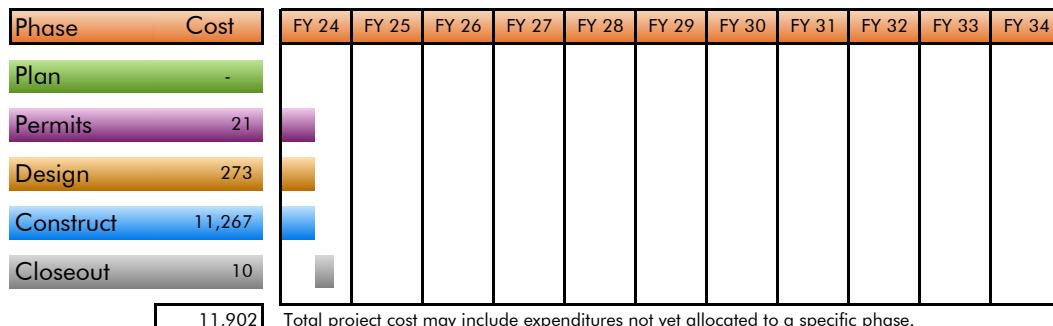
## OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the closeout phase.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

June 2020 to February 2024



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures							Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	
91864010-Cross Valley Pipeline Extension	10,621		1,281	0	0	0	0	0	11,902
with inflation	10,621		1,281	0	0	0	0	0	11,902

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
91864010-Cross Valley Pipeline Extension	11,902	0	0	0	0	0	0	0	0	11,902

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	6,085
Department of Water Resources (DWR)	5,817
Other Funding Sources	0
<b>Total</b>	<b>11,902</b>

Project  
Program  
Project No.

## Calero Dam Seismic Retrofit-Design & Construction

Water Supply – Storage  
91874004

Contact      Ryan McCarter      [rmccarter@valleywater.org](mailto:rmccarter@valleywater.org)



Aerial view of the Calero Dam and reservoir



Location Map

### PROJECT DESCRIPTION

This project designs and constructs improvements to the Calero Dam to accomplish the following objectives:

- Stabilize the embankment to withstand a Maximum Credible Earthquake
- Modify or replace the outlet works if determined to be inadequate
- Modify the spillway or increase the freeboard of the dam for safe passage of the Probable Maximum Flood
- Provide modifications that do not preclude potential future expansion of dam and reservoir to provide additional reservoir storage
- Remove or relocate the Bailey Ranch structures and breach Fellow's Dike

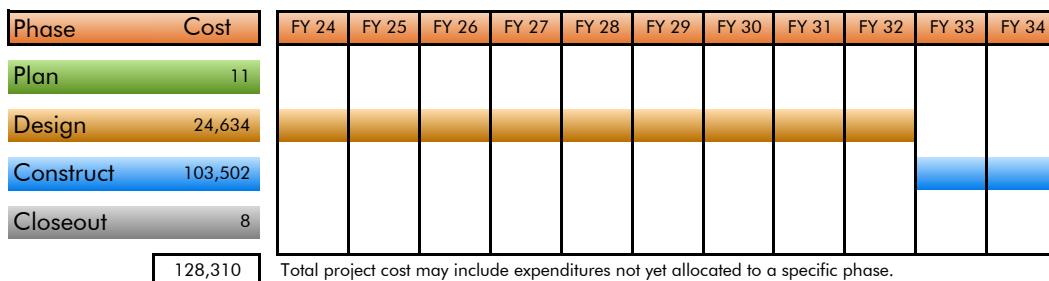
### OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

**USEFUL LIFE:**    50+ Years

## SCHEDULE & STATUS

January 2015 to June 2035



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
91874004-Calero Dam Seismic Retrofit-Design & Construct	11,085		2,712	2,900	2,900	2,800	30	30	105,853	128,310
with inflation	11,085		2,712	3,016	3,137	3,150	35	36	162,786	185,957

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests								Total
				FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
91874004-Calero Dam Seismic Retrofit-Design & Construct	13,147	650	0	3,016	3,137	3,150	35	36	162,786	185,957		

Adjusted Budget includes adopted budget, plus a planned budget adjustment of \$650,000.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	185,957
Other Funding Source	0
<b>Total</b>	<b>185,957</b>

Project  
Program  
Project No.

## Calero and Guadalupe Dams Seismic Retrofits

Water Supply – Storage

91084020 & 91894002

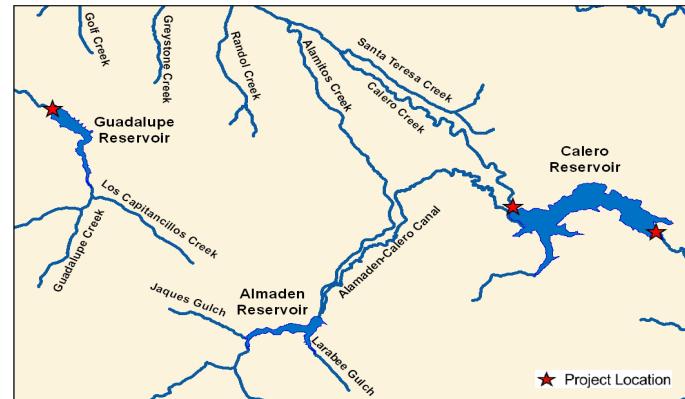
Contact

Ryan McCarter

rmccarter@valleywater.org



Aerial view of the Guadalupe Dam, spillway, and part of the reservoir



Location Map

## PROJECT DESCRIPTION

Project 91084020: Performs planning (engineering and environmental) for the Calero and Guadalupe Dams

Project 91894002: Designs and constructs improvements to Guadalupe Dam

The projects will accomplish the following objectives:

### Calero Dam

- Stabilize the embankment to withstand a Maximum Credible Earthquake (MCE)
- Modify or replace the outlet works if determined to be inadequate
- Modify the spillway or increase the freeboard of the dam for safe passage of the Probable Maximum Flood (PMF)
- Provide modifications that do not preclude potential future expansion of dam and reservoir to provide additional reservoir storage
- Remove or relocate the Bailey Ranch structures and breach Fellow's Dike

### Guadalupe Dam

- Stabilize the embankment to withstand a MCE
- Implement improvements as necessary for the dam system to safely pass the PMF
- Ensure that the outlet works and hydraulic control system meet the Division of Safety of Dams requirements
- Relocate the intake structure out of the upstream berm in a timely manner
- Incorporate other measures to address seismic and other dam safety deficiencies that are identified through the project delivery process

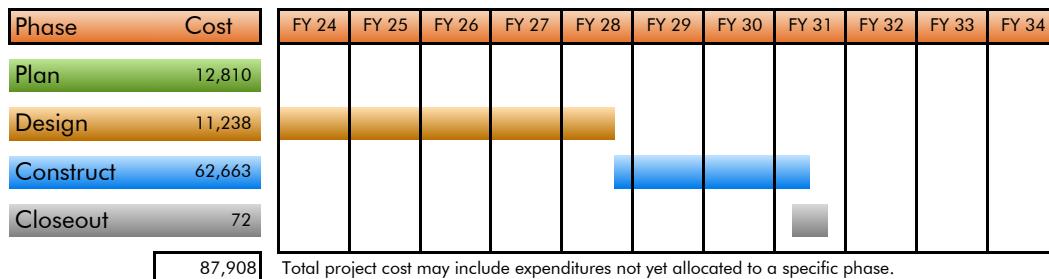
## OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

July 2012 to January 2031



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
91084020-Calero and Guadalupe Dams Seismic Retrofits-Planning	10,788	105	115	115	1,672	743	0	0		13,537
with inflation	10,788	105	119	124	1,881	870	0	0		13,886
91894002-Guadalupe Dam Seismic Retrofit-Design & Construct	9,857	1,394	100	100	100	11,300	22,850	28,670		74,371
with inflation	9,857	1,394	104	108	112	13,057	26,539	33,524		84,696
<b>TOTAL</b>	<b>20,645</b>	<b>1,499</b>	<b>215</b>	<b>215</b>	<b>1,772</b>	<b>12,043</b>	<b>22,850</b>	<b>28,670</b>		<b>87,908</b>
with inflation	20,645	1,499	223	233	1,993	13,927	26,539	33,524		98,583

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
					FY24	FY25	FY26	FY27	FY28	FY29	
91084020-Calero and Guadalupe Dams Seismic Retrofits-Planning	12,807	0	1,914	0	0	210	870	0	0	0	13,886
91894002-Guadalupe Dam Seismic Retrofit-Design & Construct	10,728	523	0	104	108	112	13,057	26,539	33,524	33,524	84,696
<b>TOTAL</b>	<b>23,535</b>	<b>523</b>	<b>1,914</b>	<b>104</b>	<b>108</b>	<b>322</b>	<b>13,927</b>	<b>26,539</b>	<b>33,524</b>		<b>98,583</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	98,583
Other Funding Source	0
<b>Total</b>	<b>98,583</b>

Project  
Program  
Project No.

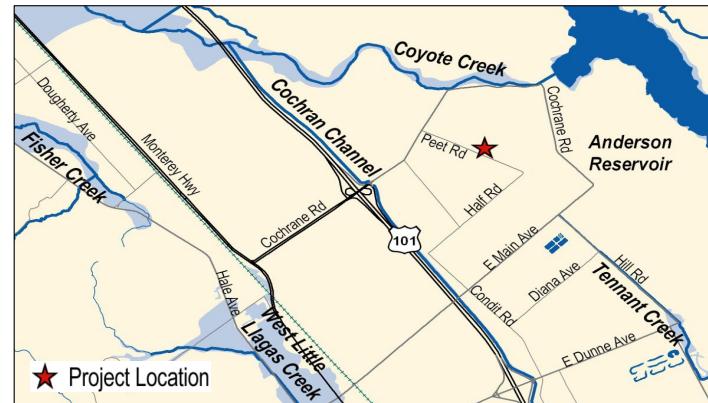
## Coyote Pumping Plant ASD Replacement

Water Supply - Storage  
91234002

Contact Emmanuel Aryee earyee@valleywater.org



ASD motors at the Coyote Pumping Plant



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Coyote Pumping Plant Adjustable Speed Drives (ASD) to accomplish the following objectives:

- Replace existing outdated and unsupported ASDs with the latest technology
- Modify/convert existing six wound rotor motors to be compatible with new stator fed ASD
- Upgrade the heating, ventilation and air conditioning system to support the additional cooling requirements
- Modify/upgrade supervisory control and data acquisition control and instrumentation systems, and control strategy to support the new ASDs
- Replace two main medium voltage circuit breakers and one medium voltage tie circuit breaker (switch) which are near the end of their service life
- Replace motor control equipment line-up with new switchgears
- Installation of a pump motor vibration and a power monitoring system and motor control center

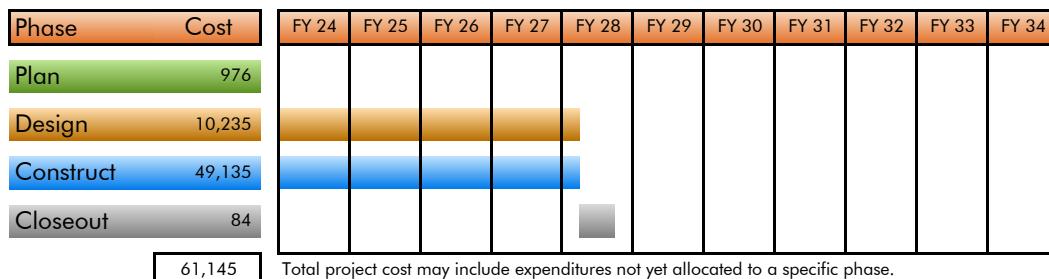
## OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately \$60,000 per year, beginning in FY28.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2017 to February 2028



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24		FY25	FY26	FY27	FY28	FY29	
91234002-Coyote Pumping Plant ASD Replacement	7,875		13,869	24,394	8,810	3,802	2,393	0	0	61,145
with inflation	7,875		13,869	26,005	9,862	4,403	2,900	0	0	64,914

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24		FY25	FY26	FY27	
91234002-Coyote Pumping Plant ASD Replacement	13,662	13,060	4,976	21,029	9,862	4,403	2,900	0	0	64,914

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	64,914
Other Funding Sources	0
<b>Total</b>	<b>64,914</b>

Project  
Program  
Project No.

**Coyote Warehouse**  
Water Supply - Storage  
91234011

Contact Emmanuel Aryee [earlyee@valleywater.org](mailto:earlyee@valleywater.org)



Newly constructed warehouse will be used to  
secure equipment and spare parts



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs the Coyote Warehouse to accomplish the following objectives:

- Provide suitable storage space for pipeline spare parts and appurtenances, and to protect such materials from weather
- Improve Valley Water's staff efficiency and effectiveness in pipeline maintenance work

This project is anticipated to be completed and closed by June 30, 2024.

## OPERATING COST IMPACTS

The completion of this project increased operating costs by approximately \$3,000 per year, beginning in FY25.

**USEFUL LIFE:** 50 years

## SCHEDULE & STATUS

July 2015 to December 2023



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
91234011-Coyote Warehouse	9,796		48	0	0	0	0	0	0	9,844
with inflation	9,796		48	0	0	0	0	0	0	9,844

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
91234011-Coyote Warehouse	9,844	0	0	0	0	0	0	0	0	9,844

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	9,844
Other Funding Sources	0
<b>Total</b>	<b>9,844</b>

**Project**  
**Program**  
**Project No.**

## Dam Seismic Stability Evaluations

Water Supply – Storage

91084019

**Contact**

Ryan McCarter

rmccarter@valleywater.org



Field exploration for seismic stability evaluations



Location Map

## PROJECT DESCRIPTION

This project conducts preliminary planning (seismic stability evaluation) for nine dams to accomplish the following objectives:

- Address seismic stability issues
- Provide for public safety
- Ensure operational availability of reservoirs
- Address protection of the assets

This project funds preliminary planning activities to determine the need for seismic stability improvements for the five dams identified on the map above. The evaluations for Almaden, Calero, Guadalupe, Lenihan, and Stevens Creek Dams have been completed as part of this project, while the evaluations for Coyote, Chesbro, Uvas, Vasona and Rinconada are scheduled to continue through 2029. The seismic stability evaluation for Anderson Dam was completed in a separate project. Planning, design, and construction of identified seismic improvements will be funded in the future as site-specific projects.

## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

August 2009 to June 2029

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	29,838											
Design	-											
Construct	-											
Closeout	-											
	29,838											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
91084019-Dam Seismic Stability Evaluations	22,739	457	288	463	350	350	3,791	1,400	29,838	
with inflation	22,739	457	299	500	394	409	4,612	1,881	31,292	

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
					FY24	FY25	FY26	FY27	FY28	
91084019-Dam Seismic Stability Evaluations	23,070	127	0	299	500	394	409	4,612	1,881	31,292

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	31,292
Other Funding Source	0
<b>Total</b>	<b>31,292</b>

**Project**  
**Program**  
**Project No.**

## Small Capital Improvements, San Felipe

Water Supply – Storage  
91214010s

**Contact**

Greg Williams gwilliams@valleywater.org



Example of bacterial corrosion on a suction wear ring of an impeller



Location Map

### PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project implements a systematic approach to the renewal and replacement of equipment at facilities within the San Felipe Division, by designing and constructing improvements identified through Valley Water's 10-year Asset Management Program. Infrastructure within this project includes tunnels, large diameter pipelines, valve structures, pumps, and associated support equipment. Reach 1 renewal and replacement activities are conducted in coordination and cooperation with San Felipe Division Reach 1 contractors and other agencies.

Projects for FY25 include:

- 91214010 – Reach 1: Rebuild of Pacheco Pumping Plant Pump #12
- 91224010 – Reach 2: No work planned in FY25
- 91234010 – Reach 3: Replace existing end-of-life staff trailers, Coyote Discharge Line – Replace meter vault instrumentation, Overhaul and recoat 2 pumps at Coyote Pumping Plant
- All active projects have positive net present value savings at the time of the feasibility study and are subject to design phase validation

### OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and Asset Management Program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	n/a											
Design	n/a											
Construct	n/a											
Closeout	n/a											
	n/a											

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a		2,072	2,431	90	742	11,540	11,579	22,534	50,988
with inflation	n/a		2,072	2,528	97	835	13,500	14,088	29,953	63,073
91224010-Small Capital Improvements, San Felipe Reach 2	n/a		0	0	0	10	0	0	695	705
with inflation	n/a		0	0	0	12	0	0	1,105	1,117
91234010-Small Capital Improvements, San Felipe Reach 3	n/a		4,933	594	0	2,280	0	4	507	8,318
with inflation	n/a		4,933	618	0	2,565	0	5	695	8,815
<b>TOTAL</b>	<b>0</b>		<b>7,005</b>	<b>3,025</b>	<b>90</b>	<b>3,032</b>	<b>11,540</b>	<b>11,583</b>	<b>23,736</b>	<b>60,011</b>
with inflation	n/a		7,005	3,146	97	3,411	13,500	14,092	31,753	73,005

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	2,072	0	2,528	97	835	13,500	14,088	29,953	63,073
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	0	0	0	0	12	0	0	1,105	1,117
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	4,933	0	618	0	2,565	0	5	695	8,815
<b>TOTAL</b>	<b>0</b>	<b>7,005</b>	<b>0</b>	<b>3,146</b>	<b>97</b>	<b>3,411</b>	<b>13,500</b>	<b>14,092</b>	<b>31,753</b>	<b>73,005</b>

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	53,795
San Benito County Water District	19,210
<b>Total</b>	<b>73,005</b>

**Project**  
**Program**  
**Project No.**

## Pacheco Reservoir Expansion Project (A1)

Water Supply – Storage

91954002

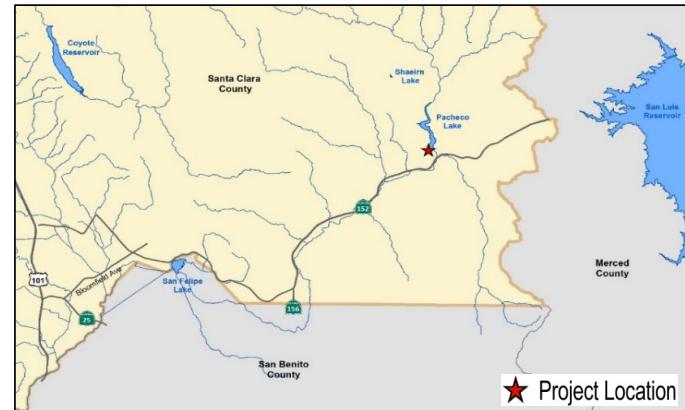
**Contact**

Ryan McCarter

rmccarter@valleywater.org



Aerial view of Pacheco Reservoir



Location Map

### PROJECT DESCRIPTION

This project will include expanding the storage capacity of the existing Pacheco Reservoir to 140,000 acre-feet through construction and operation of a new dam, conveyance facilities, and related appurtenant structures. The Valley Water Board of Directors gave direction to staff to pursue project partners to fund 35% of the project cost which would result in a net storage capacity of 91,000 acre-feet available for Valley Water use.

The project objectives include:

- Increase water supply reliability to help meet municipal and industrial water demands in Santa Clara County during drought periods and emergencies, or to address shortages due to regulatory and environmental restrictions
- Increase suitable habitat in Pacheco Creek for federally threatened steelhead
- Develop water supplies for environmental water management that support habitat management and other environmental water needs

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project A1. For a full description of the SCW benefits and KPI's, please visit [www.valleywater.org](http://www.valleywater.org).

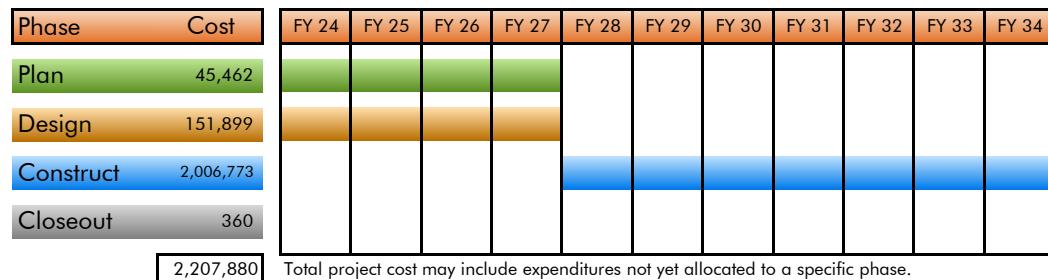
### OPERATING COST IMPACTS

Operating cost impacts are anticipated to be approximately \$2,500,000 per year, beginning in FY36. Closer analysis will be determined at the completion of the design phase.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

December 2018 to June 2035



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
91954002-Pacheco Reservoir Expansion Project (A1)	101,781		42,833	18,321	15,144	22,667	190,180	270,277	1,546,675	2,207,880
with inflation	101,781		42,833	19,053	16,380	25,498	237,231	338,507	1,965,454	2,746,738

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
91954002-Pacheco Reservoir Expansion Project (A1)	102,620	41,996	0	19,053	16,380	25,498	237,231	338,507	1,965,454	2,746,738

Adjusted Budget includes adopted budget, plus a planned budget adjustment of \$6,000.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	1,447,780
California Water Commission	504,000
SCVWD Safe, Clean Water Fund	10,000
35% Partnership Contributions - 4/14/2021 Board Direction (Unsecured)	784,958
<b>Total</b>	<b>2,746,738</b>

Valley Water closed on a \$92 million Water Infrastructure Finance and Innovation Act (WIFIA) planning and design loan with the U.S. Environmental Protection Agency (EPA) for this Project, at an interest rate of 5.08%. Valley Water will be repaying the loan with interest only repayment period starting on June 1, 2032, with principal repayment starting on June 1, 2052, and final maturity on June 1, 2062. Total debt service (principal and interest) for the loan is currently projected at \$285.7 million.

# Transmission Facilities



<b>Project</b>	<b>10-Year Pipeline Inspection &amp; Rehabilitation</b>
<b>Program</b>	Water Supply – Transmission
<b>Project No.</b>	95084002

**Contact** Emmanuel Aryee [earyee@valleywater.org](mailto:earyee@valleywater.org)



A typical rehabilitated line valve assembly



Location Map

## PROJECT DESCRIPTION

The project develops Valley Water's large diameter Pipeline Management Strategy and a 10-year program for implementation tasks associated with the strategy. This program involves the inspection, planning, and design activities required for renewal of Valley Water's large pipelines and tunnels.

The project includes the following objectives:

- Perform dewatering and internal inspections of Valley Water's pipelines and tunnels
- Renew distressed pipe sections as required; Renewal encompasses the actions of repair, rehabilitation, and replacement
- Perform condition assessment, maintenance, repair, coating, and other activities as required
- Replace line valves, flow meters, pipeline appurtenance assemblies, and piping as required
- Improve system performance by installing cathodic protection systems, acoustic fiber optic monitoring of prestressed concrete cylinder pipe, and transient pressure monitoring systems
- Development of a pipeline asset risk management system that includes geographic information system, databases, algorithms, models, data acquisition, program documents, and decision support systems
- Update Valley Water's Pipeline Maintenance Program and its associated Programmatic Environmental Impact Report for future inspection and rehabilitation efforts to Valley Water's pipeline system

The project schedule includes inspection and renewal work along the various pipelines and tunnels as identified below:

- FY 2024: West Pipeline Phase I
- FY 2025: West Pipeline Phase II

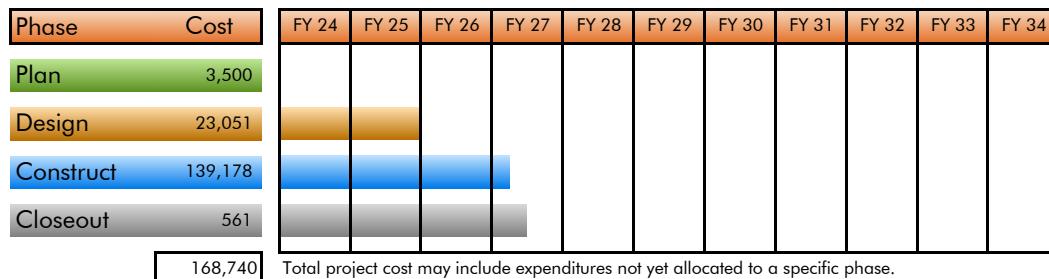
## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

July 2017 to June 2027



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
95084002-10-Year Pipeline Inspection & Rehabilitation	103,444	37,135	18,542	8,227	1,391	0	0	0	168,740
with inflation	103,444	37,135	19,611	9,152	1,565	0	0	0	170,907

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Funding Requests						Total
			FY25	FY26	FY27	FY28	FY29	Future	
95084002-10-Year Pipeline Inspection & Rehabilitation	104,781	35,799	0	19,610	9,152	1,565	0	0	170,907

Adjusted Budget includes the adopted budget plus a planned budget adjustment of \$8,508,000.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	170,907
Other Funding Sources	0
<b>Total</b>	<b>170,907</b>

Project  
Program  
Project No.

## Almaden Valley Pipeline Replacement

Water Supply - Transmission

92304001

Contact

Emmanuel Aryee

[earyee@valleywater.org](mailto:earyee@valleywater.org)



Almaden Valley Pipeline Replacement work is underway



Location Map

### PROJECT DESCRIPTION

The Almaden Valley Pipeline (AVP) is a part of the Valley Water raw water delivery system. This pipeline is used to supply raw water to Valley Water's water treatment plants and groundwater recharge facilities. This pipeline provides access, with no redundancy, to local raw water sources from Valley Water's Anderson and Calero Reservoirs and imported water from the United States Bureau of Reclamation San Luis Reservoir and San Felipe system.

The AVP was constructed in two major units/phases: Unit 1 was constructed in the 1960s and Unit 2 was constructed in the 1980s. The AVP is approximately 12 miles in length consisting of 72-inch up to 78-inch diameter prestressed concrete cylinder pipe (approximately 7.5 miles), welded steel pipe and bar wrapped pipe (approximately 4.2 miles).

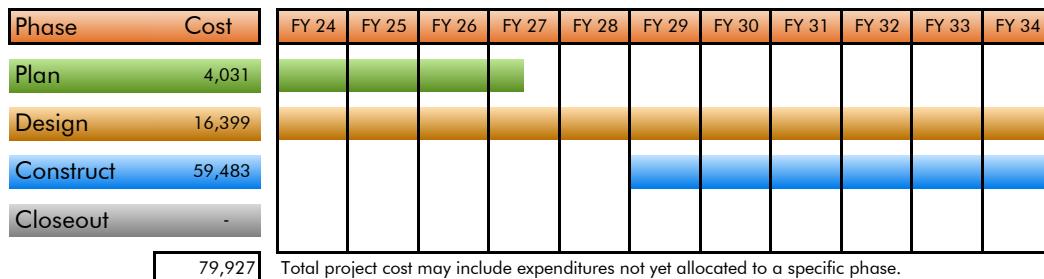
### OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

July 2022 to November 2040



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Expenditures						Total
			FY25	FY26	FY27	FY28	FY29	Future	
92304001-Almaden Valley Pipeline Replacement	629	2,637	2,047	2,047	2,242	1,927	15,017	53,381	79,927
with inflation	629	2,637	2,129	2,214	2,522	2,254	19,606	87,294	119,285

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Funding Requests						Total	
			Budget Thru	Adj. Budget	Est. Unspent	FY25	FY26	FY27	FY28	
92304001-Almaden Valley Pipeline Replacement	1,588	1,677	0	2,129	2,214	2,522	2,254	19,606	87,294	119,285

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	119,285
Other Funding Sources	0
<b>Total</b>	<b>119,285</b>

Project  
Program  
Project No.

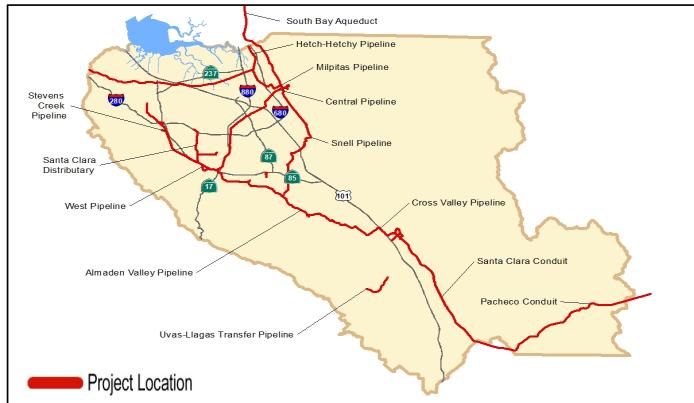
## Distribution System Master Plan Implementation Project

Water Supply – Transmission  
95044001

Contact  
Luz Penilla  
lpenilla@valleywater.org



Distribution System Master Plan Implementation



Location Map

### PROJECT DESCRIPTION

This project will develop a comprehensive 30-year implementation master plan to identify improvements to Valley Water's raw and treated water systems based on current demands, future growth, and emergencies. The project will optimize our raw and treated water distribution systems, evaluate retailer needs, recommend direct capital actions needed to protect existing distribution systems, and result in a programmatic EIR.

### OPERATING COST IMPACTS

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning effort. Projects and programs identified through the implementation plan will have their own operating cost impacts identified as they come online.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

June 2020 to June 2027

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	8,593											
Design	-											
Construct	-											
Closeout	-											
	9,233											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Expenditures						Total
			FY25	FY26	FY27	FY28	FY29	Future	
95044001-Distribution System Master Plan Implementation Project	5,913	1,933	660	607	120	0	0	0	9,233
with inflation	5,913	1,933	686	657	135	0	0	0	9,324

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Funding Requests						Total	
			Budget Thru	Adj. Budget	Est. Unspent	FY25	FY26	FY27	FY28	
95044001-Distribution System Master Plan Implementation Project	5,970	1,932	56	631	657	135	0	0	0	9,324

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	9,324
Other Funding Sources	0
<b>Total</b>	<b>9,324</b>

<b>Project</b>	<b>FAHCE Implementation</b>
<b>Program</b>	Water Supply - Transmission
<b>Project No.</b>	92C40357

**Contact** John Bourgeois [jb Bourgeois@valleywater.org](mailto:jbourgeois@valleywater.org)



Fish habitats, such as the one shown here, will be developed for habitat conservation



Project site locations have yet to be determined and no map is provided for this project

Location map

## PROJECT DESCRIPTION

In 1996, Guadalupe-Coyote Resource Conservation District (GCRCD) filed a water rights complaint against the district alleging degraded fish, wildlife, water quality and other beneficial uses in Coyote Creek, Guadalupe River and Stevens Creek. The 1997 listing of Central California Coast Steelhead as a threatened species under Federal Endangered Species Act requires Valley Water to obtain permits to address the impacts of its water supply activities on aquatic habitat and instream flows.

In 2003, a settlement agreement was initiated by parties involved. Valley Water is the process of preparing a Fish Habitat Restoration Plan (FHRP) and associated environmental impact report to complete the water rights change petitions, resolve the water rights complaint and address issues raised in the 2003 Settlement Agreement. The Fish and Aquatic Habitat Collaborative Effort (FAHCE) consists of reservoir reoperations to support salmonid spawning, rearing and migration; provisions for fish passage and aquatic habitat restoration measures, and to adaptively manage FHRP implementation in the Guadalupe River, Coyote Creek and Stevens Creek watersheds (Three Creeks).

## OPERATING COST IMPACTS

Operating cost impacts will be dependent on the maintenance requirements of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2024 to June 2035

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	145,108											
Design	-											
Construct	-											
Closeout	-											
	145,108											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
92C40357-FAHCE Implementation	0	0	0	0	0	4,739	4,379	14,691	121,299	145,108
with inflation	0	0	0	0	0	4,739	4,379	14,691	121,299	145,108

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total	
				FY23	FY24	FY25	FY26	FY27	FY28		
92C40357-FAHCE Implementation	0	0	0	0	0	0	4,739	4,379	14,691	121,299	145,108

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	145,108
Other Funding Source	0
<b>Total</b>	<b>145,108</b>

Project  
Program  
Project No.

## IRP2 Additional Line Valves (A3)

Water Supply - Transmission

26764001

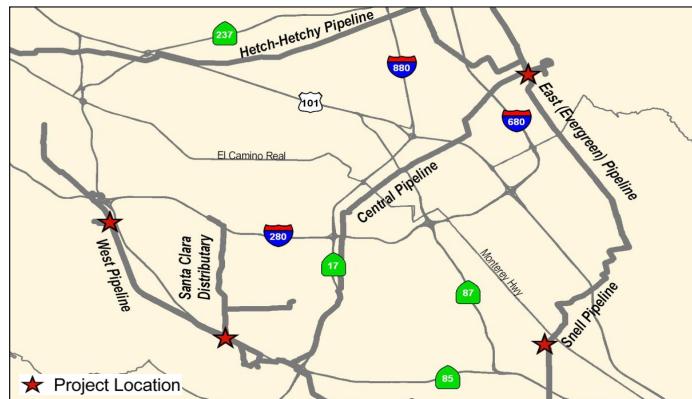
### Contact

Emmanuel Aryee

easyee@valleywater.org



New line valves, actuators, and vaults similar to this will be installed along the East, West, and Snell pipelines



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs four additional line valves in the treated water distribution system, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2). Design and construction of this project will be in conjunction with work on the same pipelines under the 10-year Pipeline Inspection and Rehabilitation Project. The new line valves will be at various locations along the East, West, and Snell pipeline to accomplish the following objectives:

- Allow Valley Water to isolate sections of the treated water pipeline for general maintenance or to repair activities following a major seismic event
- Allow the network of emergency wells to operate, even when there is damage upstream and downstream of individual wells

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project A3. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

## OPERATING COST IMPACTS

The completion of this project is anticipated to increase annual operating costs by approximately \$28,000 per year, beginning in FY28.

USEFUL LIFE: 35 Years

## SCHEDULE & STATUS

July 2018 to June 2029

Line valve construction to be coordinated with pipeline maintenance and rehabilitation projects.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	291											
Design	2,417											
Construct	18,938											
Closeout	70											
	23,806											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Expenditures						Total
			FY25	FY26	FY27	FY28	FY29	Future	
26764001-IRP2 Additional Line Valves (A3)	3,822	3,550	8,933	3,413	3,503	495	92	0	23,806
with inflation	3,822	3,550	9,497	3,794	4,090	578	111	0	25,443

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
					FY25	FY26	FY27	FY28	FY29	Future	
26764001-IRP2 Additional Line Valves (A3)	3,814	3,558	0	9,497	3,794	4,090	578	111	0	0	25,443

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Safe Clean Water Fund	25,443
Other Funding Source	0
<b>Total</b>	<b>25,443</b>

Project  
Program  
Project No.

## Pacheco/Santa Clara Conduit Right of Way Acquisition

Water Supply – Transmission  
92144001

### Contact

Emmanuel Aryee earyee@valleywater.org



Access to much of the San Felipe Division pipelines must currently be made through private property, due to a lack of easements, such as Bloomfield access at Vault 21-23



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements related to the acquisition of right-of-way along the South County pipelines to accomplish the following objectives:

- Provide unlimited access to Valley Water-owned pipelines
- Reduce conflicts with local land owners and improve response time for emergency repairs or operations

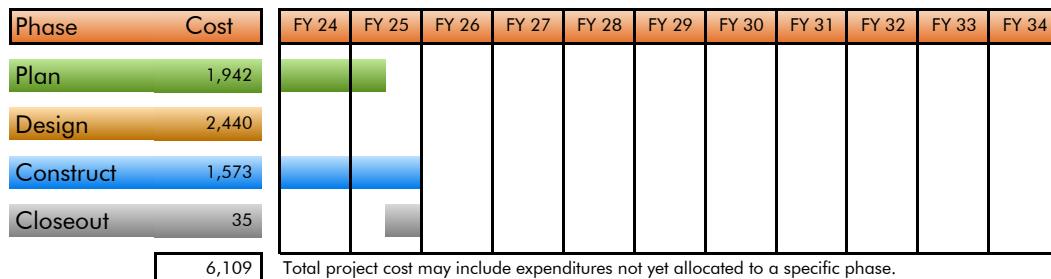
## OPERATING COST IMPACTS

The completion of the project is anticipated to increase operating costs by approximately \$8,000 per year, beginning in FY26.

**USEFUL LIFE:** 15-20 Years

## SCHEDULE & STATUS

July 2009 to June 2025



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	2,407	3,013	688	0	0	0	0	0	0	6,109
with inflation	2,407	3,013	721	0	0	0	0	0	0	6,141

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total	
					FY24	FY25	FY26	FY27	FY28	FY29		
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	5,840	74	493	228	0	0	0	0	0	0	0	6,141

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	6,122
San Benito County Water District	19
<b>Total</b>	<b>6,141</b>

**Project****SCADA Master Plan Implementation****Program**

Water Supply – Transmission

**Project No.**

95044002

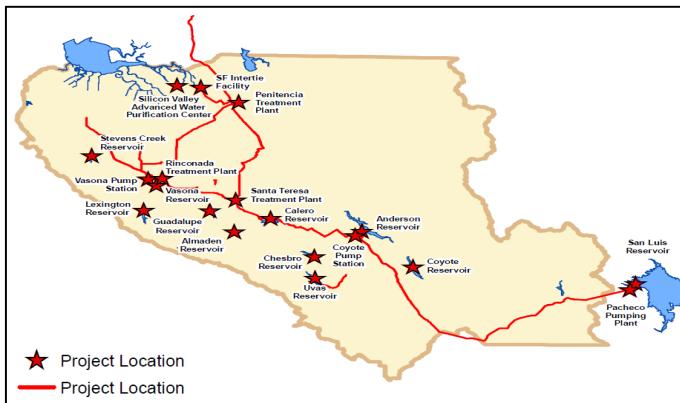
**Contact**

Luz Penilla

lpenilla@valleywater.org



Process control / SCADA system



Location Map

**PROJECT DESCRIPTION**

The process control/supervisory control and data acquisition (SCADA) systems, which serve a pivotal role in monitoring and controlling Valley Water's raw water conveyance system (including reservoirs and pumping plants), treatment plants, and distribution systems, are aging and in need of a coordinated replacement and upgrade.

The proper functioning of these systems is essential for meeting water demand, maintaining water quality, achieving regulatory and satisfying customer expectations. In addition, the process control/SCADA systems provide important data used across the organization in the Operations, Maintenance, Water Quality, and Management divisions. Improved access to the data provided by this project will allow for more efficient management and operation of all the complex facilities and systems involved.

**OPERATING COST IMPACTS**

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning and design effort. Projects identified through this implementation project will have their own operating cost impacts identified as they come online.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2020 to June 2026

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	5,974											
Design	-											
Construct	-											
Closeout	-											
	6,402											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
95044002-SCADA Master Plan Implementation	4,279		726	725	673	0	0	0	0	6,402
with inflation	4,279		726	754	728	0	0	0	0	6,486

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests								Total
				FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
95044002-SCADA Master Plan Implementation	5,320	389	704	50	728	0	0	0	0	0	0	6,486

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	6,486
Other Funding Sources	0
<b>Total</b>	<b>6,486</b>

Project  
Program  
Project No.

## SMPIP (SCADA Master Plan Implementation Project) Upgrades - Phase 1

Water Supply - Transmission

95044004

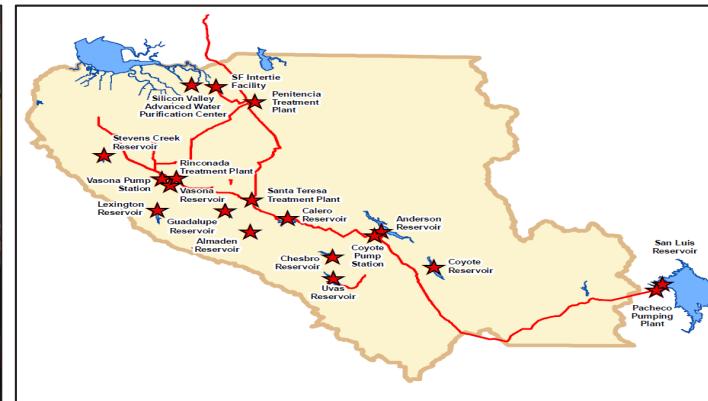
Contact

Luz Penilla

lpenilla@valleywater.org



Supervisory Control and Data Acquisition System (SCADA)



Location Map

### PROJECT DESCRIPTION

The process control/supervisory control and data acquisition (SCADA) systems, which serve a pivotal role in monitoring and controlling Valley Water's raw water conveyance system (including reservoirs and pumping plants), treatment plants, and distribution systems, are aging and in need of a coordinated replacement and upgrade.

This first set of improvements from the SCADA Master Plan Implementation project aim to enhance the resilience of the SCADA systems in order to ensure operational continuity through proactive and fiscally responsible investments in new technologies, with the objectives of:

- Upgrading aging SCADA communications infrastructure
- Implementing additional backup control center capabilities

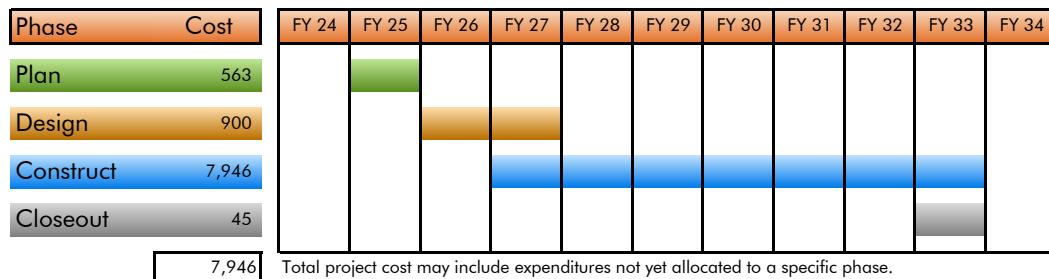
### OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE      TBD

## SCHEDULE & STATUS

July 2024 to June 2033



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24		FY25	FY26	FY27	FY28	FY29	
95044004-SMPIP (SCADA Master Plan Implementation Project) Upgrades - Phase 1	0		0	563	510	1,094	1,040	1,040	3,699	7,946
with inflation	0		0	586	552	1,270	1,295	1,358	5,365	10,425

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24		FY25	FY26	FY27	
95044004-SMPIP (SCADA Master Plan Implementation Project) Upgrades - Phase 1			0	586	552		1,270	1,295	1,358	5,365 10,425

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Fund		10,425
Other Funding Sources		0
	Total	10,425

Project  
Program  
Project No.

## Small Capital Improvements, Raw Water Transmission

Water Supply – Transmission  
92764009

### Contact

Greg Williams

gwilliams@valleywater.org



Major repair and replacement of turnout roofs and similar small raw water capital projects



Location Map

## PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project will repair or rehabilitate various existing raw water distribution facilities. These activities include identifying and fixing corrosion problems, replacing valves and other appurtenances and modifying water recharge facilities to avoid failure of the raw water transmission system and extend the life of the infrastructure. This project is part of Valley Water's 10-year Asset Management Program.

Planned projects for FY24 include:

- Gilroy Reclamation Line rehab & replacement
- Dams operating system (valves, etc.) rehab & replacement
- Turnout roof replacements
- Stock spare parts for inventory
- Permanent Valley Habitat Plan buyout of all work areas within District Fee (for Cross Valley Pipeline and Recharge sites)
- Unanticipated pipeline repairs

## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and Asset Management Program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	n/a											
Design	n/a											
Construct	n/a											
Closeout	n/a											
		n/a										

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a		1,020	2,187	850	650	740	650	5,390	11,487
with inflation	n/a		1,020	2,274	919	731	866	791	7,106	13,707

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total	
				FY23	FY24	FY25	FY26	FY27	FY28		
92764009-Small Capital Improvements, Raw Water Transmission	n/a		1,020	0	2,274	919	731	866	791	7,106	13,707

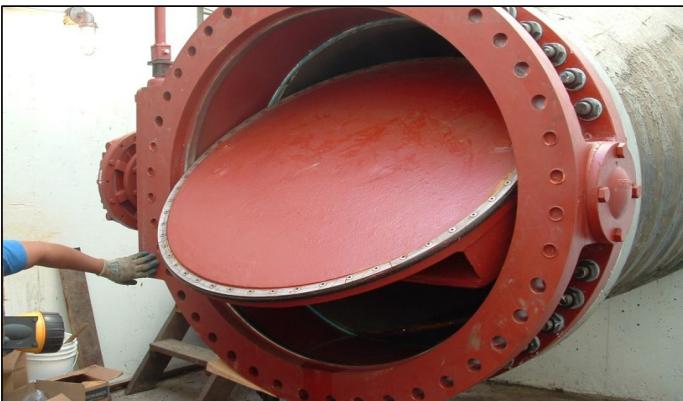
Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	13,707
Other Funding Source	0
<b>Total</b>	<b>13,707</b>

<b>Project</b>	<b>Small Capital Improvements, Treated Water Transmission</b>		
<b>Program</b>	Water Supply – Transmission		
<b>Project No.</b>	94764006	<b>Contact</b>	Greg Williams gwilliams@valleywater.org



Valve installation in the Piedmont Line Valve Vault; Similar projects will be carried out at treated water transmission facilities according to the asset management plan



Location Map

## PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the life of an asset. This project will repair or rehabilitate various existing treated water distribution facilities, such as identifying and treating corrosion problems, replacing valves and other appurtenances and repairing or adding turnouts to avoid failure of the treated water transmission system and to extend the life of the infrastructure. This project is part of Valley Water's 10-year Asset Management Program.

Planned projects for FY24 include:

- Install treated water meters
- Unanticipated pipeline repair(s)

## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and Asset Management Program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	n/a											
Design	n/a											
Construct	n/a											
Closeout	n/a											
		n/a										

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a		276	100	42	0	40	34	199	691
with inflation	n/a		276	104	45	0	47	41	267	781

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total	
				FY23	FY24	FY25	FY26	FY27	FY28		
94764006-Small Capital Improvements, Treated Water Transmission	n/a		276	0	104	45	0	47	41	267	781

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	781
Other Funding Source	0
<b>Total</b>	<b>781</b>

Project  
Program  
Project No.

## Treated Water Isolation Valves

Water Supply - Transmission

94084007

### Contact

Emmanuel Aryee

raryee@valleywater.org



New line valves similar to this will be installed at three locations within the treated water system



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs two (2) additional line valve appurtenances to accomplish the following objectives:

- Improve service levels to treated water system customers in a major hazard event or system outage
- Improve Valley Water's ability to take sections of the treated water distribution system out of service for maintenance activities

## OPERATING COST IMPACTS

The operating budget impact for the three proposed line valve facilities is estimated to be \$15,000 per year beginning in FY28.

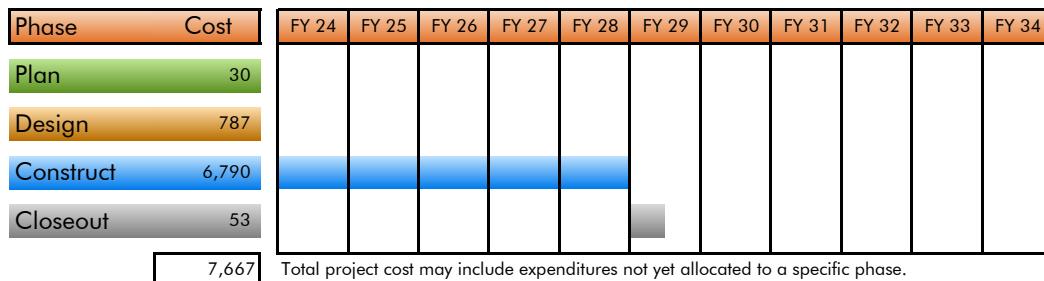
USEFUL LIFE: 50 Years

## SCHEDULE & STATUS

December 2018 to December

2028

Line valve construction to be coordinated with other pipeline maintenance and rehabilitation projects.



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24		FY25	FY26	FY27	FY28	FY29	
94084007-Treated Water Isolation Valves	645		1,235	1,891	1,691	501	1,539	165	0	7,667
with inflation	645		1,235	2,013	1,887	584	1,907	201	0	8,470

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24		FY25	FY26	FY27	
94084007-Treated Water Isolation Valves	1,271	609	0	2,012	1,887	584	1,907	201	0	8,470

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	8,470
Other Funding Sources	0
<b>Total</b>	<b>8,470</b>

Project  
Program  
Project No.

## Vasona Pump Station Upgrade

Water Supply - Transmission

92264001

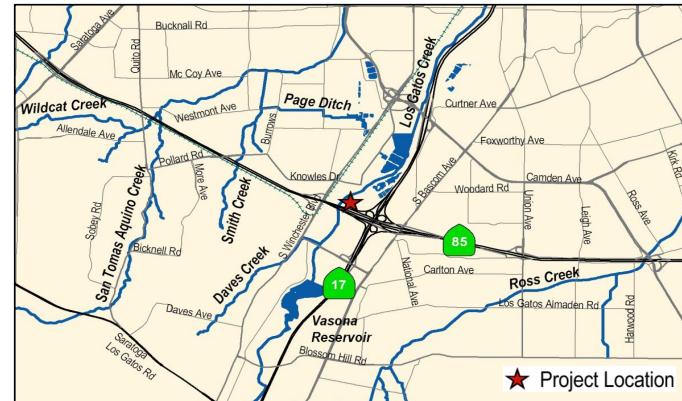
Contact

Emmanuel Aryee

earlyee@valleywater.org



Vasona Pump Station



Location Map

### PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Vasona Pump Station, including replacing aging pumps, motors, drives, valves, actuators, and electrical and control systems that have reached the end of their useful life; and adding one redundant pump.

The project will accomplish the following objectives:

- Eliminate the risk of failure by replacing assets that have reached the end of their useful life, including four pumps (two 200 horsepower, two 400 horsepower) and associated motors, drives, electrical and control systems, as well as pump discharge and suction valves and actuators
- Increase operational flexibility and prepare for future capacity needs by adding one redundant pump and increasing the size of all pumps

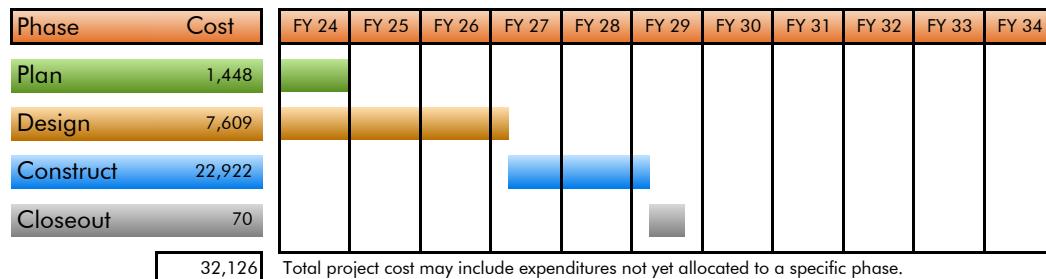
### OPERATING COST IMPACTS

The completion of this project is anticipated to reduce operating costs by approximately \$70,000 per year, beginning in FY27.

**USEFUL LIFE:** 50 Years

## SCHEDULE & STATUS

October 2019 to February 2029



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24		FY25	FY26	FY27	FY28	FY29	
92264001-Vasona Pump Station Upgrade	2,659		1,556	1,640	1,640	9,659	12,284	2,690	0	32,126
with inflation	2,659		1,556	1,705	1,774	11,337	14,528	3,245	0	36,803

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24		FY25	FY26	FY27	
92264001-Vasona Pump Station Upgrade	4,750	0	535	1,170	1,774	11,337	14,528	3,245	0	36,803

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	36,803
Other Funding Sources	0
<b>Total</b>	<b>36,803</b>

# Treatment Facilities

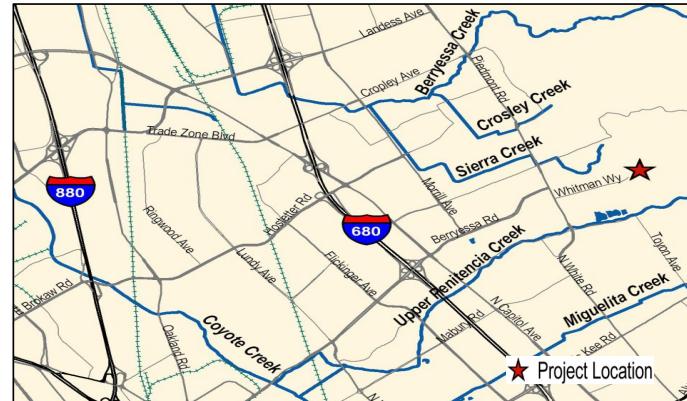


**Project** PWTP Residuals Management  
**Program** Water Supply – Treatment  
**Project No.** 93234044

**Contact** Emmanuel Aryee [earlyee@valleywater.org](mailto:earlyee@valleywater.org)



Existing belt press to be replaced with new residuals management facility



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Penitencia Water Treatment Plant (PWTP) residuals management process to accomplish the following objectives:

- Extend the useful life of the treatment plant
- Improve the efficiency of the residual management processes
- Minimize or eliminate (existing) operational constraints and impacts to the drinking water treatment process
- Minimize risk of discharge violations
- Improve the reliability of PWTP
- Install new washwater clarification and residuals management facilities

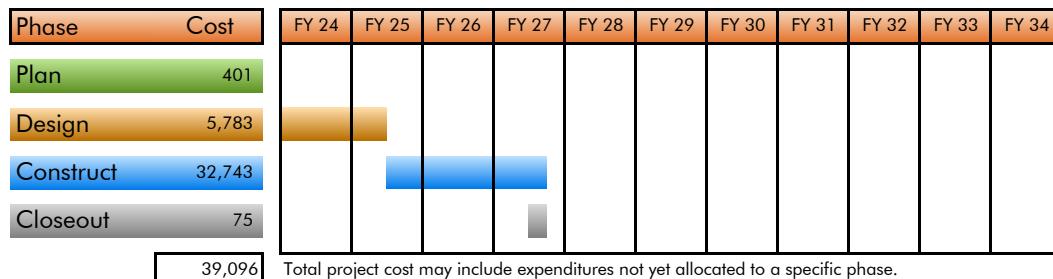
## OPERATING COST IMPACTS

Operating cost impacts will be determined during the construction phase.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2020 to March 2027



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
93234044-PWTP Residuals Management	3,941	1,680	8,843	16,371	8,261	0	0	0	39,096	
with inflation	3,941	1,680	9,398	17,551	8,924	0	0	0	41,494	

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
93234044-PWTP Residuals Management	4,133	1,488	0	9,398	17,551	8,924	0	0	0	41,494

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	41,494
Other Funding Sources	0
<b>Total</b>	<b>41,494</b>

<b>Project</b>	<b>RWTP Residuals Remediation</b>
<b>Program</b>	Water Supply – Treatment
<b>Project No.</b>	93294051s



## Centrifuge for mechanical dewatering of sludge



## Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) residuals management processes and will accomplish the following objectives:

- Extend the useful life of the treatment plant
- Improve the efficiency of the residual management processes
- Improve the reliability of RWTP

This project is anticipated to be completed and closed by June 30, 2024.

## OPERATING COST IMPACTS

The completion of this project is anticipated to decrease annual operating costs by approximately \$200,000 per year, beginning in FY24.

## USEFUL LIFE:

Structures – 50 Years

Mechanical Equipment – 15 Years

Electrical Equipment – 10 Years

## SCHEDULE & STATUS

May 2018 to January 2024

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	2,242											
Design	10,453											
Construct	62,515											
Closeout	181											
	75,785											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures							Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	
93294051-RWTP FRP Residuals Management	31,860		1,057	0	0	0	0	0	32,917
with inflation	31,860		1,057	0	0	0	0	0	32,917
93294058-RWTP Residuals Remediation	41,538		1,330	0	0	0	0	0	42,868
with inflation	41,538		1,330	0	0	0	0	0	42,868
<b>TOTAL</b>	<b>73,398</b>		<b>2,387</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,785</b>
<b>with inflation</b>	<b>73,398</b>		<b>2,387</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,785</b>

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
93294051-RWTP FRP Residuals Management	38,573	0	5,656		0	0	0	0	0	38,573
93294058-RWTP Residuals Remediation	41,659	1,210	0		0	0	0	0	0	42,868
<b>TOTAL</b>	<b>80,232</b>	<b>1,210</b>	<b>5,656</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>81,441</b>

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$5,656,000.

Excess funding will be returned to reserves upon project completion.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	81,441
Other Funding Source	0
<b>Total</b>	<b>81,441</b>

**Project**  
**Program**  
**Project No.**

## RWTP Reliability Improvement

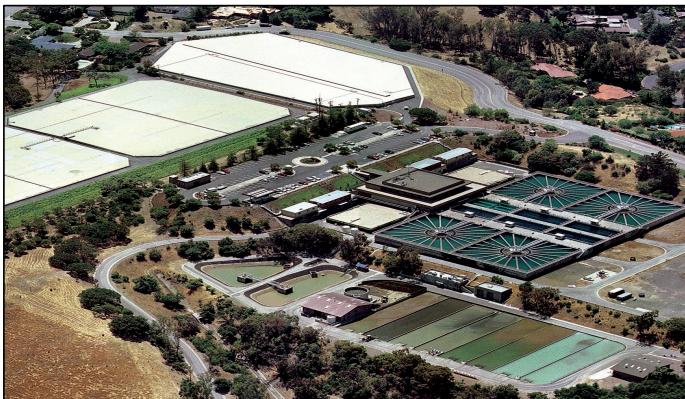
Water Supply – Treatment

93294057

### Contact

Emmanuel Aryee

earyee@valleywater.org



Aerial view of the Rinconada Water Treatment Plant facing west



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs new facilities at Rinconada Water Treatment Plant (RWTP) that will improve plant reliability by accomplishing the following objectives:

- Construct a new filter building
- Implement raw water ozonation
- Increase RWTP capacity to 100 million gallons per day

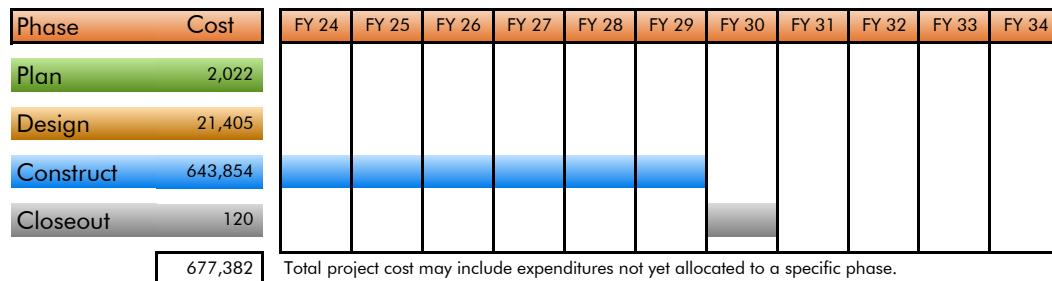
## OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$1,400,000 per year, beginning in FY31. Increases are for routine maintenance and operation of new equipment.

**USEFUL LIFE:**      Media – 20 Years  
                            Structures – 50 Years  
                            Equipment – 15 Years

**SCHEDULE & STATUS**

July 2009 to June 2030



Total project cost may include expenditures not yet allocated to a specific phase.

**EXPENDITURE SCHEDULE**

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
93294057-RWTP Reliability Improvement	260,720	40,022	59,994	109,086	112,731	55,897	38,810	120	677,382	
with inflation	260,720	40,022	66,210	121,474	126,350	63,193	44,406	152	722,528	

Actuals include project expenditures and encumbrances.

**FUNDING SCHEDULE**

(in thousands \$)

Project	FY23	FY24	FY25	FY26	FY27	FY28	FY29	Planned Funding Requests		Total
								Adj. Budget	Est. Unspent	
93294057-RWTP Reliability Improvement	278,522	22,221	0	66,210	121,474	126,350	63,193	44,406	152	722,528

Adjusted Budget includes adopted budget, plus a planned budget adjustment of \$45,000.

**FUNDING SOURCES**

(in thousands \$)

SCVWD Water Utility Enterprise Fund	722,528
Other Funding Source	0
<b>Total</b>	<b>0</b>

Project  
Program  
Project No.

## RWTP Ammonia Storage and Metering Facility Upgrade

Water Supply - Treatment

93294059

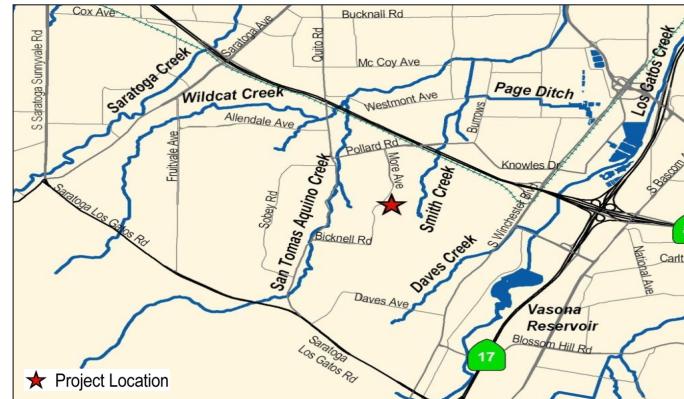
### Contact

Emmanuel Aryee

[earyee@valleywater.org](mailto:earyee@valleywater.org)



Rinconada Water Treatment Plant Aqua Ammonia Tank



Location Map

## PROJECT DESCRIPTION

The existing ammonia storage and metering facility (ASMF) at the Rinconada Water Treatment Plant (RWTP) in Los Gatos, California, includes a single ammonia storage tank, four metering pumps and associated instrumentation and control equipment. The existing ammonia storage tank was installed in the mid-1990s as part of the Toxic Gas Ordinance Compliance Project (TGO), and has a nominal capacity of 6,700 gallons for aqua ammonia (19% concentration). The current tank is reaching its end of life and will be replaced with two (2) tanks for reliability and safety. The four existing metering pumps will be replaced with new ones, and three new feed lines will be installed from the existing ASMF to the new Raw Water (RW) influent pipelines (north and south) and to the new chlorine contact basin (CCB), respectively.

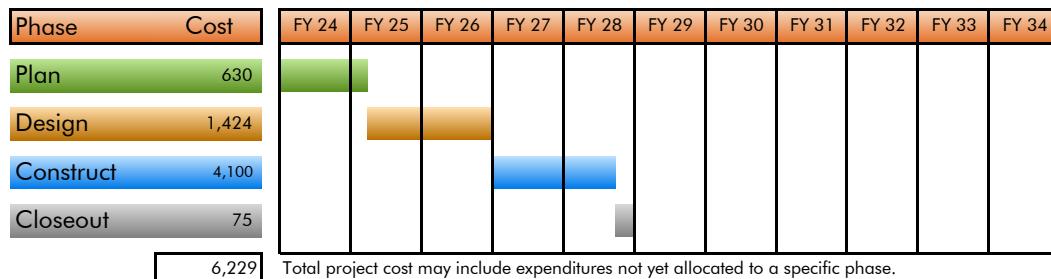
## OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

**USEFUL LIFE:** 40+ Years

## SCHEDULE & STATUS

July 2023 to June 2028



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
93294059-RWTP Ammonia Storage and Metering Facility Upgrade	0	630	460	504	2,610	2,025	0	0		6,229
with inflation	0	630	478	545	2,944	2,297	0	0		6,894

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total	
					FY24	FY25	FY26	FY27	FY28	FY29		
93294059-RWTP Ammonia Storage and Metering Facility Upgrade	0	630	0	478	545	2,944	2,297	0	0	0		6,894

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	6,894
Other Funding Sources	0
<b>Total</b>	<b>6,894</b>

**Project  
Program  
Project No.**

**Small Capital Improvements, Water Treatment**

Water Supply – Treatment

93764004

**Contact**

Greg Williams

gwilliams@valleywater.org



Sludge pond sediment removal at Santa Teresa Water Treatment Plant



Location Map

## PROJECT DESCRIPTION

This project provides resources for small capital improvements that replace or extend the life of an asset. This project implements a systematic approach of equipment replacement and renewal at the three water treatment plants and laboratory by designing and constructing improvements identified as part of Valley Water's 10-year Asset Management Program. Typical activities of this project include pump, motor, instrumentation and valve replacement; chemical tank repairs; and large-scale renewal and replacement activities like clarifier mechanism overhaul and replacement. Planned projects to complete for Santa Teresa Water Treatment Plant (STWTP), Penitencia Water Treatment Plan (PWTP), Rinconada Water Treatment Plant (RWTP), West Pipeline, and Silicon Valley Advanced Water Purification Center include:

- Provide engineering, supplies, and services support for the Sulfuric Acid Water Quality project
- Purchase Laboratory Information Management System
- Complete Small Capital Projects at STWTP, RWTP, PWTP and Campbell Well Field

## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and Asset Management Program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	n/a											
Design	n/a											
Construct	n/a											
Closeout	n/a											
		n/a										

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
93764004-Small Capital Improvements, Water Treatment	n/a	3,397	5,527	9,764	5,316	1,033	2,209	21,085	48,331	
with inflation	n/a	3,397	5,748	10,561	5,980	1,208	2,688	29,607	59,189	

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Funding Requests						Total	
			FY25	FY26	FY27	FY28	FY29	Future		
93764004-Small Capital Improvements, Water Treatment	n/a	3,397	0	5,748	10,561	5,980	1,208	2,688	29,607	59,189

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement Projects do not carry forward unspent funds from one fiscal year to the next. Excess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	59,189
Other Funding Source	0
<b>Total</b>	<b>59,189</b>

**Project**  
**Program**  
**Project No.**

## STWTP Filter Media Replacement

Water Supply – Treatment

93284013

**Contact**

Emmanuel Aryee

[earyee@valleywater.org](mailto:earyee@valleywater.org)



Santa Teresa Water Treatment Plant Filter Media Replacement



Location Map

### PROJECT DESCRIPTION

This project plans, designs and constructs improvements to the Santa Teresa Water Treatment Plant (STWTP) filter basins to ensure that STWTP maintains its operational capacity and continues to effectively serve customers, retailers, and the public with safe and high-quality drinking water.

This project will accomplish the following objectives:

- Extend the service life of STWTP filter system
- Replace the filter media in all twelve filters with sand and granular activated carbon
- Replace the filter's damaged or deteriorated collection nozzles

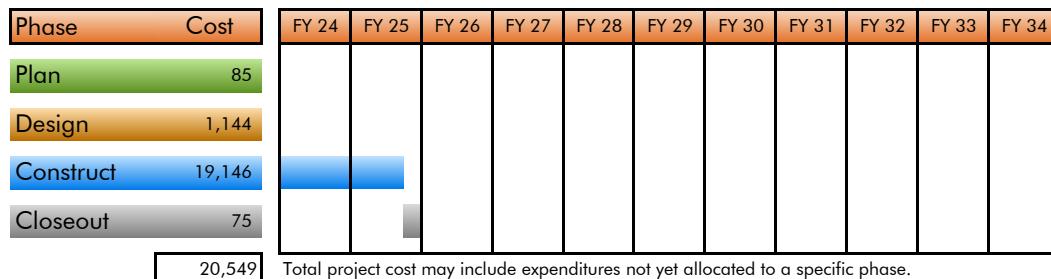
### OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** 10-15 Years

## SCHEDULE & STATUS

June 2019 to April 2025



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
93284013-STWTP Filter Media Replacement	13,949		5,376	1,225	0	0	0	0	0	20,549
with inflation	13,949		5,376	1,273	0	0	0	0	0	20,598

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
93284013-STWTP Filter Media Replacement	14,924	5,099	699	574	0	0	0	0	0	20,598

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	20,598
Other Funding Sources	0
<b>Total</b>	<b>20,598</b>

Project  
Program  
Project No.

## Water Treatment Plant Electrical Improvement

Water Supply - Treatment  
93084004

### Contact

Emmanuel Aryee earyee@valleywater.org



Motor control center switchboard



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to ensure the safety, operational reliability and maintainability of electrical systems at Penitencia Water Treatment Plant (PWTP) and Santa Teresa Water Treatment Plant (STWTP).

The electrical systems will be upgraded to accomplish the following objectives:

- Extend the service life of PWTP's and STWTP's electrical distribution systems
- Improve reliability and reduce maintenance at PWTP and STWTP

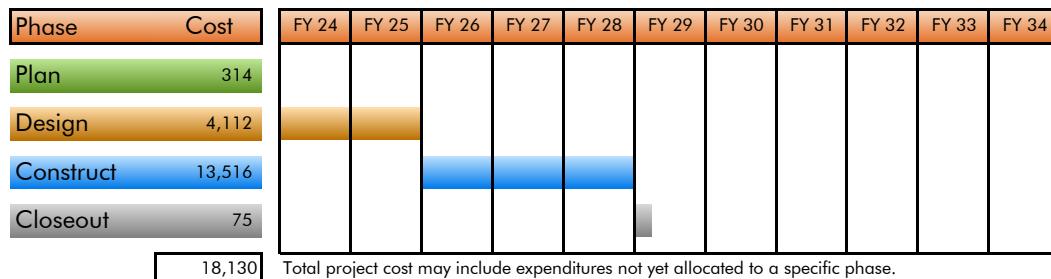
## OPERATING COST IMPACTS

The completion of this project is anticipated to decrease annual operating costs and will be determined during the construction phase.

**USEFUL LIFE:** 30+ Years

## SCHEDULE & STATUS

March 2020 to July 2028



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
93084004-Water Treatment Plant Electrical Improvement	1,932	888	1,720	5,279	4,413	3,875	25	0	18,130	
with inflation	1,932	888	1,789	5,928	5,146	4,730	30	0	20,442	

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
					FY24	FY25	FY26	FY27	FY28	FY29	
93084004-Water Treatment Plant Electrical Improvement	3,938	0	1,118	671	5,928	5,146	4,730	30	0	20,442	

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	20,442
Other Funding Sources	0
<b>Total</b>	<b>20,442</b>

**Project**

**WTP Master Plan Implementation Project**

**Program**

Water Supply – Treatment

**Project No.**

93044001

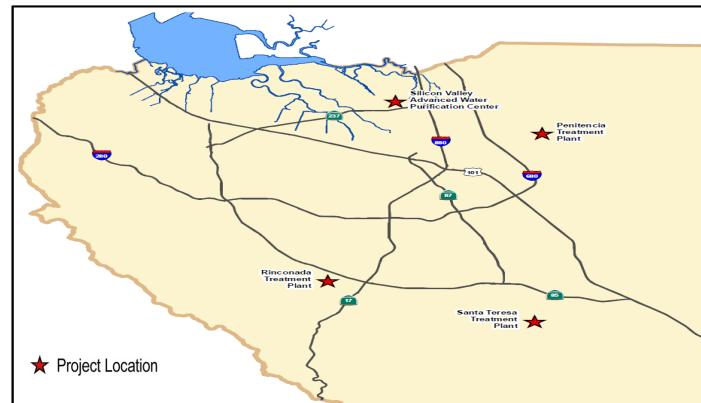
**Contact**

Luz Penilla

lpenilla@valleywater.org



Improvements in four water treatment facilities operated by Valley Water



Location Map

## PROJECT DESCRIPTION

This project will develop a comprehensive 30-year implementation master plan to determine the projects needed to repair, replace and/or upgrade Valley Water's water treatment plant infrastructure, address the increasingly stringent water quality regulations, and integrate with the recently completed Water Supply Master Plan. The implementation project will conclude with a programmatic environmental impact report. Facilities will include the Rinconada, Santa Teresa, Penitencia Water Treatment Plants and the Advanced Water Purification Center.

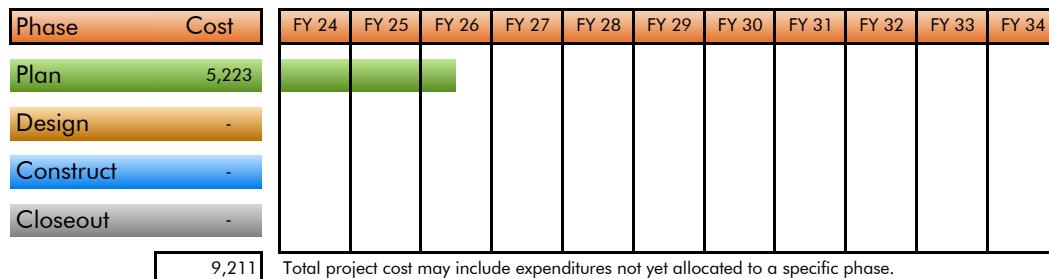
## OPERATING COST IMPACTS

This project is not anticipated to increase or decrease annual operating costs, as the project is a planning effort that will be used to identify future repair and upgrade projects to Water Treatment Plants. Projects identified through this implementation project will have their own operating cost impacts identified as they come online.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2020 to December 2025



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
93044001-WTP Master Plan Implementation Project	5,189		3,060	700	261	0	0	0	0	9,211
with inflation	5,189		3,060	728	283	0	0	0	0	9,260

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
93044001-WTP Master Plan Implementation Project	5,404	3,057	211	517	283	0	0	0	0	9,260

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	9,260
Other Funding Sources	0
<b>Total</b>	<b>9,260</b>

# Recycled & Purified Water Facilities



Project  
Program  
Project No.

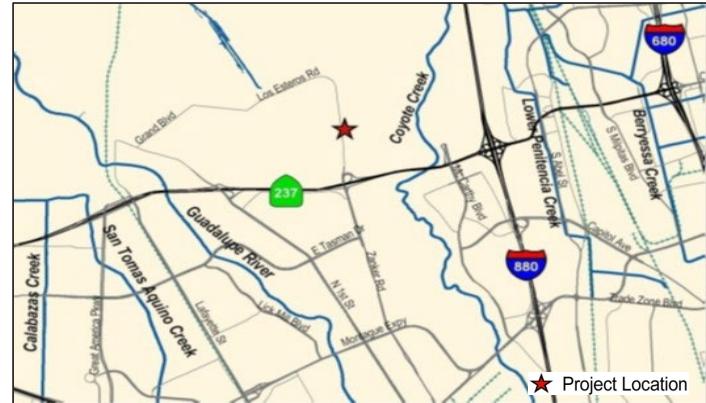
San Jose Purified Water Project (SJPWP) - Phase 1

Water Supply - Recycled Water  
91294001

Contact      Kirsten Struve      kstruve@valleywater.org



Rendition of Future Facility



Location Map

## PROJECT DESCRIPTION

This project plans, designs, constructs and implements a Direct Potable Reuse (DPR) Pilot Demonstration Project to accomplish the following objectives:

- Prepare Valley Water for the implementation of a future DPR Purified Water Project in San José
- Evaluate the technology necessary to meet newly proposed and stringent DPR regulatory requirements
- Evaluate the treatment options necessary to implement DPR at a Palo Alto purification facility
- Construct an Educational Center to garner public support for a full-scale water purification project

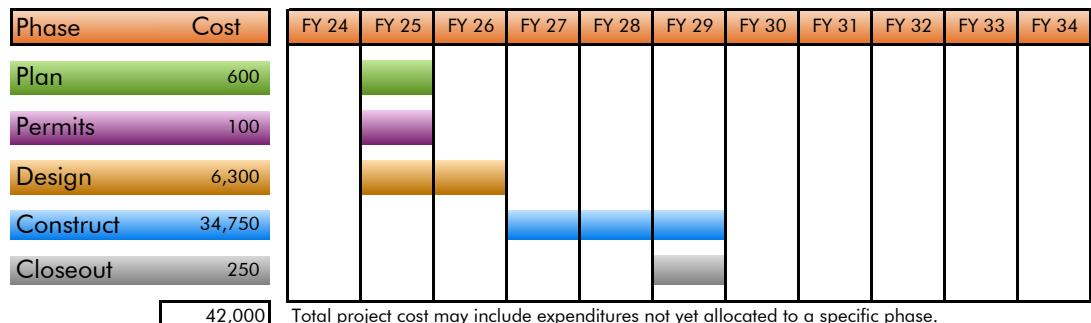
## OPERATING COST IMPACTS

The completion of this project will include a operations and maintenance agreement which is anticipated to increase operating costs by approximately \$2,000,000 per year, beginning in FY29.

USEFUL LIFE      30 years

## SCHEDULE & STATUS

July 2024 to June 2029



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
91294001-San Jose Purified Water Project (SJPWP) - Phase 1	0	0	1,000	6,000	15,100	18,400	1,500	0	42,000	
with inflation	0	0	1,040	6,490	17,778	21,841	1,825	0	48,974	

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY24	FY25	FY26	FY27	FY28	FY29	
91294001-San Jose Purified Water Project (SJPWP) - Phase 1	0	0	0	1,040	6,490	17,778	21,841	1,825	0	48,974

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	48,974
Other Funding Sources	0
<b>Total</b>	<b>48,974</b>

Project

Land Rights - South County Recycled Water Pipeline

Program

Water Supply – Recycled Water

Project No.

91094001

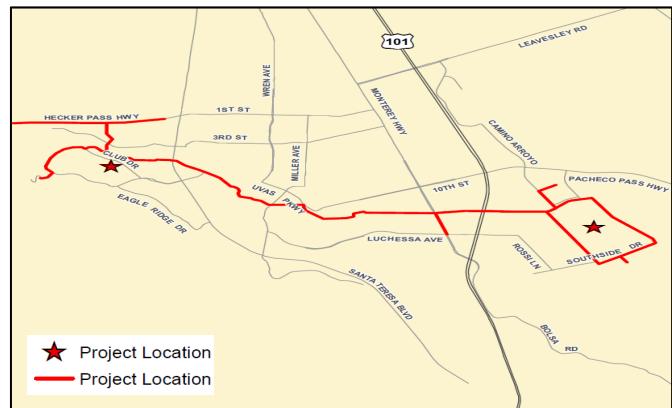
Contact

Emmanuel Aryee

earyee@valleywater.org



Restricted land access puts recycled water delivery at risk



Location Map

## PROJECT DESCRIPTION

Valley Water is contractually required to maintain and operate the recycled water pipeline in South County as a part of an agreement with the South County Regional Wastewater Authority (SCRWA). It has been determined that there are insufficient and expired land rights to Valley Water's recycled water pipeline in segments near the Eagle Ridge Golf Course and along Hecker Pass Road, which places Valley Water in a precarious legal position. In the event of a pipe failure, Valley Water's rights to legally operate and maintain the recycled water conveyance system may be challenged; thus, our commitment to deliver recycled water to its South County customers is at risk.

Valley Water's ongoing implementation of the SCRWA Recycled Water Master Plan is impetus to affirm the pipeline easements and Valley Water access rights. Delaying resolution of this outstanding issue may cause difficulties in maintaining the pipelines, and will negatively impact our long-term commitment to increase recycled water use in South County.

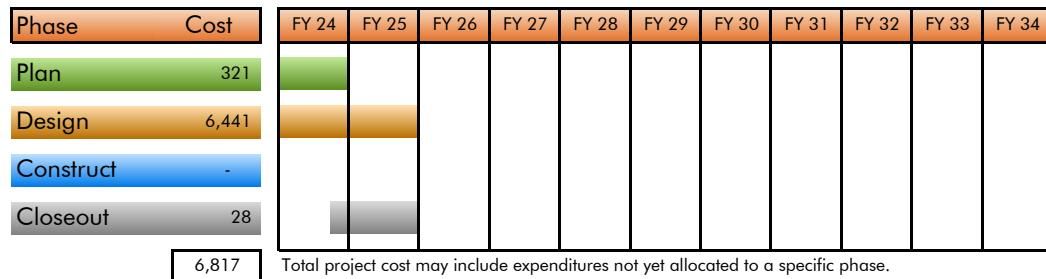
## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** All land rights obtained will be held in perpetuity.

## SCHEDULE & STATUS

July 2020 to June 2025



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
91094001-Land Rights - South County Recycled Water Pipeline	278		6,337	202	0	0	0	0	0	6,817
with inflation	278		6,337	210	0	0	0	0	0	6,825

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
				FY23	FY24	FY25	FY26	FY27	
91094001-Land Rights - South County Recycled Water Pipeline	3,807	3,010	201	9	0	0	0	0	6,825

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	6,825
Other Funding Sources	0
<b>Total</b>	<b>6,825</b>

Project  
Program  
Project No.

## South County Recycled Water Pipeline

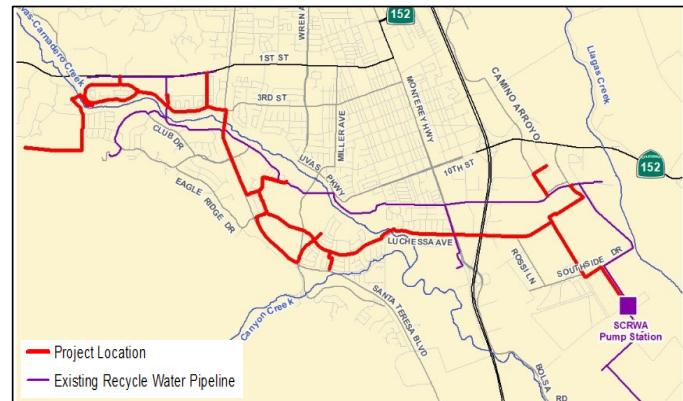
Water Supply – Recycled Water  
91094007s

### Contact

Emmanuel Aryee [earyee@valleywater.org](mailto:earyee@valleywater.org)



12" RCW turnout connection at the intersection of Monterey Road and Luchessa Ave. in Gilroy, CA



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs water recycling systems based on the South County Recycled Water Master Plan (SCRWMP) accepted in December 2004, and updated in 2015, to improve system redundancy, reliability, and capacity. The current SCRWMP report presents a 20-year capital program for expanding water recycling in South County.

This project is accounted for in the following:

- 91094007 – Recycled Water South County Master Plan (Immediate Term) which included design and construction of recycled water storage, pumping, and distribution facilities for agricultural use near the South County Regional Wastewater Authority (SCRWA) treatment plant - Completed
- 91094008 – Recycled Water South County Master Plan (Short Term Phase 1A), installation of approximately 3,000 feet of 30-inch and 36-inch pipeline - Completed
- 91094009 – South County Recycled Water Pipeline (Short Term Phase 1B) will construct an additional 18,500 linear feet of pipeline
- 91094010 – South County Recycled Water Pipeline (Short Term Phase 2) will be completed through cost-sharing opportunities with the City of Gilroy and land developers to construct a 30-inch diameter pipeline.

## OPERATING COST IMPACTS

The completion of this project is anticipated to increase annual operating costs by approximately \$33,000 per year, beginning in FY26.

**USEFUL LIFE:** Pipelines – 50 Years  
Pumps – 20 Years

## SCHEDULE & STATUS

January 2012 to June 2025

The schedule chart shows Short Term Phase 1B and 2, plus Long Term Phase 3 projects only. The Immediate Term and Short Term Phase 1A projects are complete.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	3,037											
Design	11,783											
Construct	44,404											
Closeout	182											
	60,114											

Total project cost may include expenditures not yet allocated to a specific phase.

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
Project	FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future		
91094007-Recycled Water South County Master Plan - Immediate Term	3,257	0	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Master Plan - Short Term 1A	5,391	0	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	42,154	379	24	148	143	23	0	0	0	42,846
91094010-South County Recycled Water Pipeline - Short Term 2, Long Term 3	8,619	0	3	23	0	0	0	0	0	8,641
<b>TOTAL</b>	<b>59,420</b>	<b>378</b>	<b>27</b>	<b>171</b>	<b>143</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60,135</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	52,329
South County Regional Wastewater Authority	811
United States Bureau of Reclamation (USBR) - ARRA	1,295
United States Bureau of Reclamation (USBR) Title 16	5,700
<b>Total</b>	<b>60,135</b>

# Flood Protection

# Flood Protection Capital Improvements

## FLOOD PROTECTION OVERVIEW

Of the approximately 800 miles of creeks in Santa Clara County, Valley Water has jurisdiction over and manages approximately 294 miles to meet the Board's Ends Policy E-3, "Natural flood protection is provided to reduce risk and improve health and safety for residents, businesses, and visitors, now and into the future." Valley Water's goals are further defined in E-3.1, "Maintain flood protection facilities to design levels of protection" and E-3.2, "Assist people, businesses, schools, and communities to prepare for, respond to, and recover from flooding through equitable and effective engagement." The 294 miles of creeks are located in five watersheds: Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. Valley Water administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended throughout its useful life.

Valley Water's flood protection management has significantly reduced the intensity and frequency of flooding in Santa Clara County. Of the 166,526 parcels in the floodplain, Valley Water projects have protected approximately 100,000 parcels, with plans to protect approximately 25,000 more over the next five years.

The voters in Santa Clara County have supported Valley Water's flood protection efforts by approving benefit assessment funding in 1982, 1986, and 1990. Voters also approved three special parcel taxes. In 2000, voters approved the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks). The Clean, Safe Creeks Plan was replaced by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water). In 2020, voters approved the renewal of the Safe, Clean Water Program, which replaced the 2012 Safe, Clean Water Program in entirety. Unlike the first two special parcel taxes, which were set to sunset in 15 years from the date of implementation, the renewed Safe, Clean Water Program will continue unless repealed by voters or if the Board determines the funding is no longer needed.

The renewed Safe, Clean Water Program - Fund 26, along with the Watershed and Stream Stewardship (1% ad valorem property tax) - Fund 12, are the two primary funding sources for flood protection projects. Listed by watershed are the completed and current flood protection capital improvements,

moving upstream from the completed downstream work or starting new work on creeks that have not had flood protection work.

## Lower Peninsula Watershed

### *Major Capital Improvements Completed*

- San Francisquito Creek, San Francisco Bay to Highway 101 (Safe, Clean Water)
- San Francisquito Creek, Highway 101 to Searsville Dam (Safe, Clean Water)
- Adobe Creek, El Camino to West Edith Avenue
- Matadero Creek, Palo Alto Flood Basin to Barron Creek

### *Major Capital Improvements Identified in the CIP*

- Permanente Creek, San Francisco Bay to Foothill Expressway (2012 Safe, Clean Water)
- Palo Alto Flood Basin Tide Gate Structure Replacement
- San Francisquito Creek, San Francisco Bay to Middlefield Road, Construction

## West Valley Watershed

### *Major Capital Improvements Completed*

- Calabazas Creek, Guadalupe Slough to Wardell Road
- San Tomas Creek, Southern Pacific Railroad to Cabrillo Avenue
- Saratoga Creek, San Tomas Creek to Lawrence Expressway

### *Major Capital Improvements Identified in the CIP*

- Sunnyvale East and West Channels (Safe, Clean Water)

## Guadalupe Watershed

### *Major Capital Improvements Completed*

- Guadalupe River-Lower, Alviso Marina to I-880
- Guadalupe River-Downtown, I-880 to I-280

### *Major Capital Improvements Identified in the CIP*

- Guadalupe River-Upper, I-280 to Blossom Hill Road (Safe, Clean Water)
- Guadalupe River, Tasman Drive to I-880
- Lower Guadalupe River Capacity Restoration

## Coyote Watershed

### *Major Capital Improvements Completed*

- Coyote Creek, San Francisco Bay to Montague Expressway
- Lower Penitencia Creek, Coyote Creek to Tasman Drive

# Flood Protection Capital Improvements

- Lower Silver Creek, Coyote Creek to Cunningham Avenue (Reaches 1-6)
- Cunningham Flood Detention Certification
- Berryessa Creek, Calaveras Boulevard to I-680 (2012 Safe, Clean Water)
- Lower Silver Creek, I-680 to Cunningham Avenue, (Reaches 4-6)

## **Major Capital Improvements Identified in the CIP**

- Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard (Safe, Clean Water)
- Coyote Creek, Montague Expressway to Tully Road (Safe, Clean Water)
- Lower Penitencia Creek Improvements, Berryessa to Coyote Creek
- Upper Penitencia Creek, Coyote Creek to Dorel Drive (Safe, Clean Water)

## **Uvas/Llagas Watershed**

### **Major Capital Improvements Completed**

- Llagas Creek-Lower, Pajaro River to Buena Vista Avenue
- Uvas Creek

### **Major Capital Improvements Identified in the CIP**

- Llagas Creek-Upper, Buena Vista Avenue to Llagas Road (Safe, Clean Water)

## **Multiple Watersheds**

### **Major Capital Improvements Identified in the CIP**

- San Francisco Bay Shoreline (Safe, Clean Water)
- Small Capital Improvements, Watershed Asset Rehabilitation Program (WARP)

### **Operations and Maintenance Costs**

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Throughout the various phases of a capital project, projections of this impact are regularly considered and updated as needed to reflect changes in project elements.

## **CIP PLANNING PROCESS AND FINANCIAL ANALYSIS**

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a CIP Draft Five-Year Plan in February.

The Board then authorizes release of the CIP Draft Five-Year Plan to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the CIP Final Five-Year Plan in May.

A financial analysis of the Watershed and Stream Stewardship Fund and Safe, Clean Water Fund, the funding sources for flood protection capital improvements, was conducted to determine if there are limitations to funding all of the projects proposed for the CIP Final FY 2025-29 Five-Year Plan.

Funding required for portions of several CIP projects is contingent on grants and partnership agreements that are under development and not currently secured. As Valley Water works through the process to secure funding, the project schedules may be adjusted. Projects with unsecured funding include:

- San Francisquito Creek, upstream of Highway 101
- Upper Llagas, portions of Phase 2B (Reaches 6, 7b, 8, and 14)

Further, many of the flood protection projects under the renewed Safe, Clean Water Program include key performance indicators (KPIs) for a preferred project, which requires federal funding, and for a local-funding only version of the project, can be constructed if federal funding is not received.

In addition to Valley Water funding sources, Valley Water has entered into a flexible, low cost Water Infrastructure Finance and Innovation Act (WIFIA) master loan agreement with the Environmental Protection Agency (EPA) that commits up to \$146 million to provide upfront funding for the Sunnyvale East and West Channels Flood Protection Project, the Coyote Creek Flood Protection Project, and the Upper Penitencia Creek Project with final payoff of the loan occurring in 2063.

### **Significant Project Updates from the Prior Year**

Updates to capital project plans are considered to be significant if total project costs (TPC) increase or decrease (inflated) more than \$1 million, project completion is extended beyond one year, or if there are any changes to project scope. Listed here are the changes to projects from the CIP Adopted FY 2024-28 Five-Year Plan:

### **Capital Improvement Project Updates**

- The Palo Alto Flood Basin Tide Gate Structure Replacement Project decreased in cost by \$754 thousand.

# Flood Protection Capital Improvements

The Project has been divided into two phases, a short-term Phase 1 and long-term Phase 2, with short-term Phase 1 focusing on designing and constructing a seismic retrofit and rehabilitation of the existing tide gate structure and long-term Phase 2 involving work on a long-term structure replacement project, in collaboration with the United States Army Corps of Engineers (USACE), to ensure alignment and elevation compatibility with the South San Francisco Bay Shoreline Phase II Project. Phase 2 cost and schedule are yet to be determined and will be updated by the time Phase 1 enters Construction Phase.

- The Permanente Creek, SF Bay to Foothill Expwy Project decreased in cost by \$460 thousand. This 2012 Safe, Clean Water (SCW Program), Measure B, project was granted more than what was carried forward for the project closeout in the 2020 renewed SCW Program, Measure S. Since this project is not part of the renewed SCW Program's first 15-year financial cycle (FY2022-36), it does not receive new funding from the renewed Program. During the budget cycle and CIP production, the forecasted FY 2024 amounts exceeded the TPC, but that wasn't known until all the FY 2023 actuals were realized. As this 2012 SCW project is closing at the end of FY24, the correct TPC and cumulative budget need to align with the approved carryforward in the renewed SCW Program. The FY24 budget allocation needs to be adjusted because it was granted in error and violates the SCW program guidelines.
- The Sunnyvale East and West Channels (E2) Project decreased in cost by \$152 thousand. The Board of Directors modified Project E2 funding allocation on January 24, 2023, reducing Phase 1 construction costs and reallocating Phase 2 construction-related expenditures to Fund 26 Operating and Capital Reserves. While Phase 1 construction funding is secured, funding sources for Phase 2, including federal and state grants, are being explored, with reassessments on an annual basis as part of the financial planning process. Valley Water will reassess the availability of funding on an annual basis as part of the Capital Improvement Program's financial planning process, through which the Board may reallocate construction funding to Phase 2 when and if funding becomes available. There is no change to the TPC, adjustments to phase totals only.

The schedule is being extended due to resubmission of Permit Applications in August 2023, with construction expected to be advertised in September 2024 and the contract awarded in January 2025.

- The Guadalupe River, Tasman Drive - I-880 project increased in cost by \$3.88 million due to the extension of the schedule by 2 years and an updated estimate of expenditures in the Planning and Design Phases, as these were underestimated in past project plans. The project schedule has increased by a total of 2 years to reflect the completion of the planning phase in FY 2024. The remaining phases (design, construction, and closeout) have not increased in duration, but have been pushed out 2 years accordingly.
- The Guadalupe River-Upper, I-280 to SPRR Project Planned expenditures have increased in cost by \$427 thousand to address higher than expected costs incurred during FY23, particularly related to labor expenses for monitoring Phase 1 gravel augmentation sites. Environmental Mitigation and Monitoring staff conducted various fieldwork activities, including a topographic survey and water surface profile monitoring, resulting in an overage of the FY 2023 budget. Continuing into FY 2024, FY 2025, FY 2026 and FY 2027, additional fieldwork to trace rocks from Phase 1 gravel augmentation sites have been included.
- The Berryessa Creek, Calaveras Blvd. to I-680 Project increased in cost by \$4 thousand due to the overall schedule being extended by one year for the extra time necessary to finalize payment to the U.S. Army Corps of Engineers USACE.
- The Berryessa Creek, Lower Penitencia Creek to Calaveras Blvd Phase 1 decreased in cost by \$68 thousand as the only remaining work needed is to finalize the wetlands report in accordance with the final Mitigation and Monitoring Report. This report is planned to be completed by a consultant working on the project by the second half of FY 2024. The overall Project schedule is being extended to complete the closeout activities.
- The Berryessa Creek, Lower Penitencia Creek to Calaveras Blvd Phase 2 Project increased in cost by \$1.60 million due to additional scope for a waterline and sewer replacement requested by the City of Milpitas.

# Flood Protection Capital Improvements

Despite completion in July 2022, a water leak was discovered in December 2022, leading to collaboration between Valley Water and the City of Milpitas for repair plans. The waterline leak caused the civil construction aspect of the project completion to be delayed, resulting in additional labor costs for the repair and associated civil work. Additionally, cost was added to the three-year Plant Establishment Phase for unforeseen conditions, such as irrigation or replacement planting exceeding the scope of the contract.

- The Lower Penitencia Creek Improvements Project increased in cost by \$409 thousand due to delays in material supply availability, as well as storm events which damaged a concrete channel wall. A design consultant task order was needed to bring in technical expertise to evaluate, design and monitor the wall until it could be repaired. Additionally, staff hours were needed to address the channel wall repair. The schedule was delayed to address these unforeseen circumstances and the 3-year plant establishment and maintenance is scheduled to be completed in FY 2027.
- The Llagas Creek - Lower Capacity Restoration, Buena Vista Rd. to Pajaro River Project decreased in cost by \$5.93 million. This project was on hold for over 10 years. Due to the time lapse, staff updated phase deliverables and schedules resulting in increased expenditures for the anticipated level of work. On August 4, 2023, Governor Newsom issued Executive Order N-10-231 which applies to the Pajaro River and tributaries in response to the flooding that occurred in January 2023. The executive order (EO) suspends certain permitting requirements for activities related to vegetation management. As part of this project, and in response to the EO, Valley Water removed several acres of vegetation along Lower Llagas Creek to partially restore capacity of the channel. Additional improvements will be needed to fully restore capacity, however this initial vegetation removal work significantly reduced the need for future planned improvements. In addition, at the January 9, 2024 Board meeting, this project was added to the unfunded list, therefore the schedule and expenditures in FY 2025 and beyond have been removed.
- The Llagas Creek, Upper, Reimbursable Project increased in cost by approximately \$2 million to cover the costs of relocating existing utilities in conflict with project

construction and acquiring the last remaining properties needed for project completion. Eligible costs associated with this increase are expected to be reimbursed by the Department of Water Resources - State Subventions Program, contingent on the program's funding. Construction and Close-out schedules have been extended by one year to accommodate utility relocations that need to be done concurrently with construction.

- The SF Bay Shoreline, EIAs 5-9 (E7) Project increased in cost by \$2.32 million due to CEQA related activities for Valley Water staff in the Environmental Phase that were not included in the prior project plan, as well as additional labor costs for Valley Water staff in the Planning Phase. The schedule has been updated to reflect staff time to complete the Feasibility Study. The Feasibility Cost Share Agreement with the US Army Corps of Engineers (USACE), signed on August 28, 2023, initiated a 3-year study set to conclude in 2026.
- The SF Bay Shoreline, EIAs 5-9 (E7) Project increased in cost by \$2.32 million due to CEQA related activities for Valley Water staff in the Environmental Phase that were not included in the prior project plan, as well as additional labor costs for Valley Water staff in the Planning Phase. The schedule has been updated to reflect staff time to complete the Feasibility Study. The Feasibility Cost Share Agreement with the US Army Corps of Engineers (USACE), signed on August 28, 2023, initiated a 3-year study set to conclude in 2026.

## **Small Capital Improvement Project Updates**

Small Capital project forecasts undergo annual revisions, adjusting asset rehabilitation projects based on asset condition and project requirements, and updating project costs according to market conditions. These revisions to both schedule and costs result in several minor changes in expected expenditures over the forecasted period.

The Watersheds Asset Rehabilitation Program (WARP) was originally validated and included into the Capital Improvement Program (CIP) in 2015 as the Small Capital Improvements, Watersheds Project. While there have been several scope changes over the years and the project was renamed the Watersheds Asset Rehabilitation Program (WARP), the project continued to be managed as a Small Capital Improvement

# Flood Protection Capital Improvements

Project with asset rehabilitation projects added, removed, and rescheduled on an annual basis based on asset condition and project need.

Since this is an on-going watersheds rehabilitation project and work is expected to continue at approximately the same level in future years, WARP is being renamed to include reference to the "Small Capital Improvements" to align with the naming convention used for the other types of Small Capital Improvements projects in the CIP. Additionally, to reflect the small capital planning and forecasting process, the planned expenditures have been updated to extend through the full 15-year capital forecast period.

- Small Capital Improvements, Watersheds Asset Rehabilitation Program (WARP) increased in cost by \$12.30 million.

## *The Safe, Clean Water Program*

The renewed Safe, Clean Water Program, approved by voters in 2020, began in FY 2021-22 and includes the following flood protection projects:

- San Francisquito Creek, San Francisco Bay to Middlefield Road
- Sunnyvale East and West Channels

- Upper Guadalupe River, I-280 to Blossom Hill Road
- Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 3 - Planning and Design
- Coyote Creek, Montague Expressway to I-280
- Upper Penitencia Creek, Coyote to Dorel Drive
- Llagas Creek-Upper, Buena Vista Avenue to Llagas Road
- San Francisco Bay Shoreline - EIAs 1-4 and Planning and Design for EIAs 5-9

With the exception of the Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 3, each of these projects were also included in the 2012 Safe, Clean Water Program.

Additionally, the following projects are considered complete under the 2012 Safe, Clean Water Program, as the KPIs had been delivered, but is still included in the CIP, as it is in the close-out phase:

- Permanente Creek, San Francisco Bay to Foothill Expressway (2012 Safe, Clean Water)
- Berryessa Creek, Calaveras Boulevard to I-680 (2012 Safe, Clean Water)

For more information about the Safe, Clean Water Program visit [valleywater.org](http://valleywater.org). Please see Appendix C for the implementation schedule for the Renewed Program.

# Flood Protection Capital Improvements

The following table is a project funding schedule for flood protection capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2023-24.

## Flood Protection Capital Improvements (\$K)

Project Number	Project Name	Through FY23	FY24*	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
<b>LOWER PENINSULA WATERSHED</b>											
10394001	Palo Alto Flood Basin Tide Gate Structure Replacement	7,537	-	27	650	3,238	50	-	-	-	11,475
10244001s	Permanente Creek, SF Bay to Foothill Expressway	115,224	21	-	21	-	-	-	-	-	115,266
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam (E5)	75,778	4,917	972	22,781	9,453	422	427	113	-	113,891
<b>WEST VALEY WATERSHED</b>											
26074002	Sunnyvale East and West Channels (E2)	38,402	-	1,950	9,363	5,076	2,225	1,234	1,486	-	57,786
<b>GUADALUPE WATERSHED</b>											
30154019	Lower Guadalupe River Capacity Restoration Project	5,613	1,341	-	3,121	3,245	3,375	30,938	29,670	29,676	106,979
26154001s	Guadalupe River-Upper, I-280 to Blossom Hill Road (E8)	135,358	-	20,504	-	-	15,569	18,206	3,767	677	173,577
<b>COYOTE WATERSHED</b>											
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	53,264	1,146	100	4	-	-	-	-	-	54,414
40174004s	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	137,678	342	1,787	168	87	-	-	-	-	57,529 195,804
26174043	Coyote Creek, Montague Expressway to Tully Road (E1)	25,230	1,604	-	13,576	94,496	77,484	3,195	36	522	216,143
40334005	Lower Penitencia Ck Improvements, Coyote Ck to Berryessa Ck	34,869	525	178	-	105	22	-	-	-	35,521
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	23,029	-	5,836	-	-	-	-	-	-	23,029
<b>UVAS LLAGAS WATERSHED</b>											
50284010	Llagas Creek-Lower, Capacity Restoration, Buena Vista Rd	6,947	-	-	-	-	-	-	-	-	6,947
26174051s	Llagas Creek-Upper, Buena Vista Avenue to Llagas Road (I)	249,783	24,422	8,966	56,637	11,530	22	-	-	-	342,394
<b>MULTIPLE WATERSHEDS</b>											
00044026s	San Francisco Bay Shoreline (E7)	126,371	6,548	685	2,254	22,427	9,252	9,622	3,680	-	180,154
62084001	Small Capital Improvements, Watersheds Asset Rehabilitation Program (WARP)	57,014	13,115	-	19,680	17,550	9,511	10,000	10,476	167,063	304,409
<b>TOTAL</b>		<b>1,092,097</b>	<b>53,981</b>	<b>41,005</b>	<b>128,255</b>	<b>167,207</b>	<b>117,932</b>	<b>73,622</b>	<b>49,228</b>	<b>255,467</b>	<b>1,937,789</b>

\*FY 2024 Adjusted Budget includes adopted budget plus budget adjustments

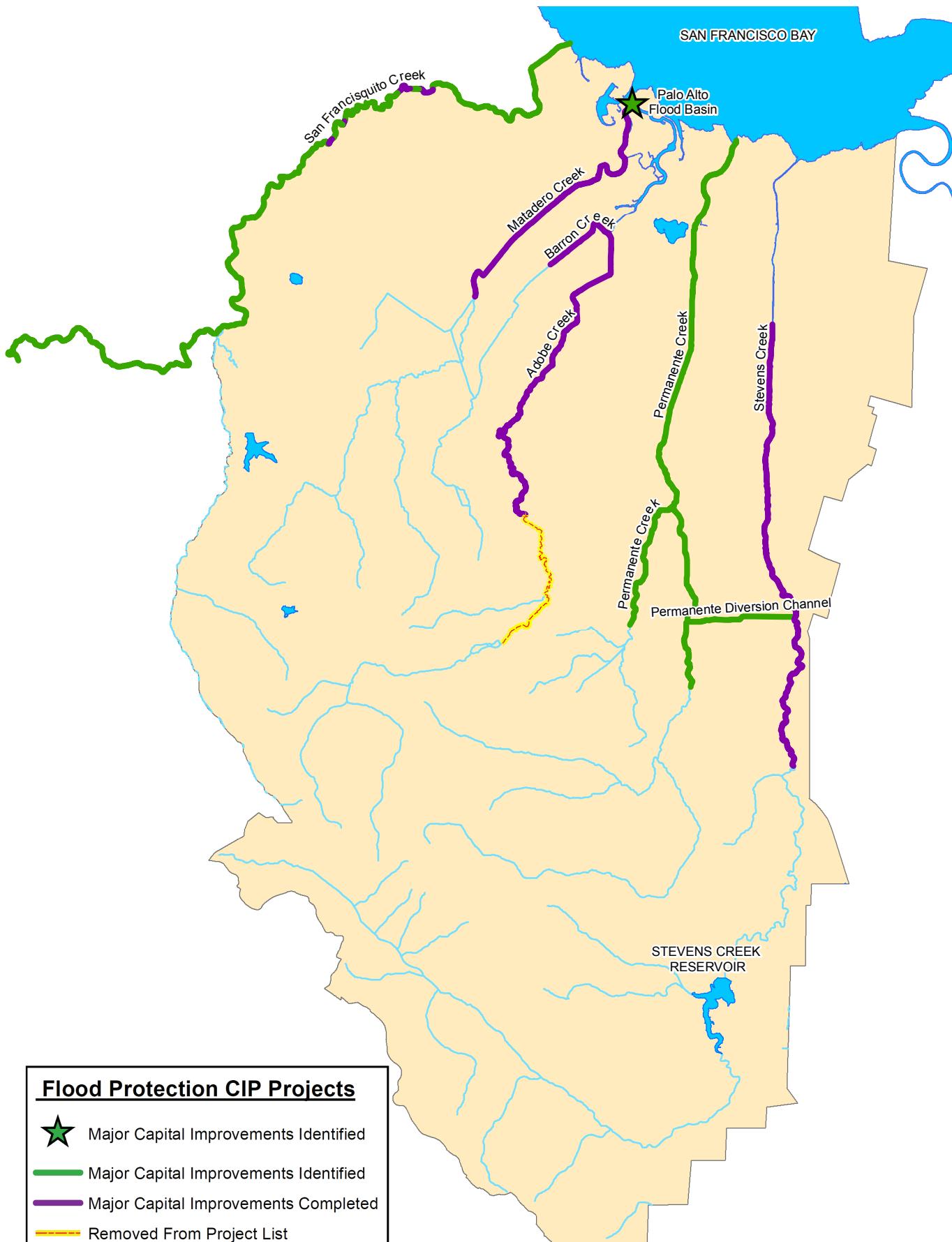
 FY 2023-24 Funds to be reappropriated

## Flood Protection - Funding Sources (\$K)

Fund Number	Fund Name	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
12	Watershed Stream Stewardship Fund	386,418	18,140	1,992	23,693	40,190	12,958	40,938	40,146	246,513	808,996
26	Safe, Clean Water and Natural Flood Protection Fund	705,679	35,841	39,013	104,562	127,017	104,974	32,684	9,082	8,954	1,128,793
<b>TOTAL</b>		<b>1,092,097</b>	<b>53,981</b>	<b>41,005</b>	<b>128,255</b>	<b>167,207</b>	<b>117,932</b>	<b>73,622</b>	<b>49,228</b>	<b>255,467</b>	<b>1,937,789</b>

 FY 2023-24 Funds to be reappropriated

# Lower Peninsula Watershed



**Project**

**Palo Alto Flood Basin Tide Gate Structure Replacement**

**Program**

Flood Protection - Lower Peninsula Watershed

**Project No.**

10394001

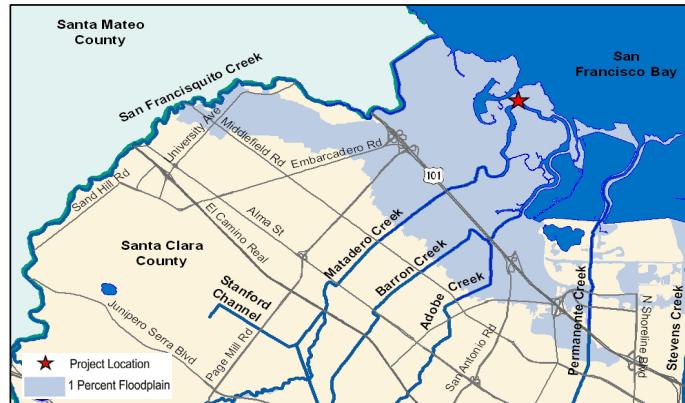
**Contact**

Bhavani Yerrapotu

byerrapotu@valleywater.org



View from west side of Palo Alto tide gates facing east



Location Map

## PROJECT DESCRIPTION

This project plans and designs a rehabilitation and retrofit in the short term and a replacement tide gate structure in the long term for the Palo Alto tide gates to achieve the following objectives:

### Phase 1

- Retrofit the existing tide gate structure to reduce seismic vulnerabilities
- Rehabilitate the existing tide gate structure to extend the service life of the structure

### Phase 2

- Work with United States Army Corps of Engineers for a long-term replacement tide gate structure as part of the San Francisco Bay Shoreline Project

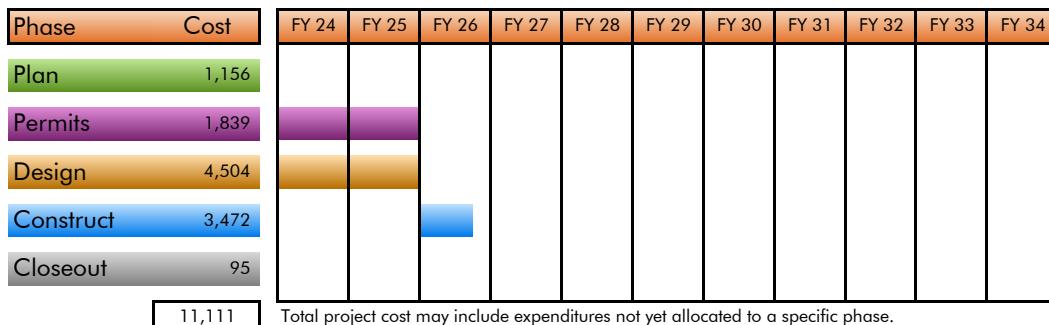
## OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

**USEFUL LIFE:** 30-50 Years

## SCHEDULE & STATUS

November 2018 to  
September 2026



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
10394001-Palo Alto Flood Basin Tide Gate Structure Replacement	6,782		728	651	2,906	45	0	0	0	11,111
with inflation	6,782		728	677	3,238	50	0	0	0	11,475

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests								Total
				FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
10394001-Palo Alto Flood Basin Tide Gate Structure Replacement	7,537	0	27	650	3,238	50	0	0	0	0	0	11,475

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	11,475
Other Funding Sources	0
<b>Total</b>	<b>11,475</b>

Project  
Program  
Project No.

Permanente Creek, San Francisco Bay to Foothill Expressway

Flood Protection – Lower Peninsula Watershed

10244001s

Contact

Bhavani Yerrapotu

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McKelvey Ball Park and Detention Basin  
upon completion in February 2020



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 10.6 miles of Permanente Creek, from San Francisco Bay to Foothill Expressway, Hale Creek from Foothill Expressway to its confluence with Permanente Creek, to accomplish the following objectives:

- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway
- Provide environmental restoration and enhancement benefits, where opportunities exist
- Provide recreation enhancements, where opportunities exist
- Provide natural flood protection by taking a multiple-objective approach

This project is anticipated to be completed and closed by June 30, 2024.

This project meets the commitments of the voter-approved 2012 Safe, Clean Water Program (SCW). For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

## OPERATING COST IMPACTS

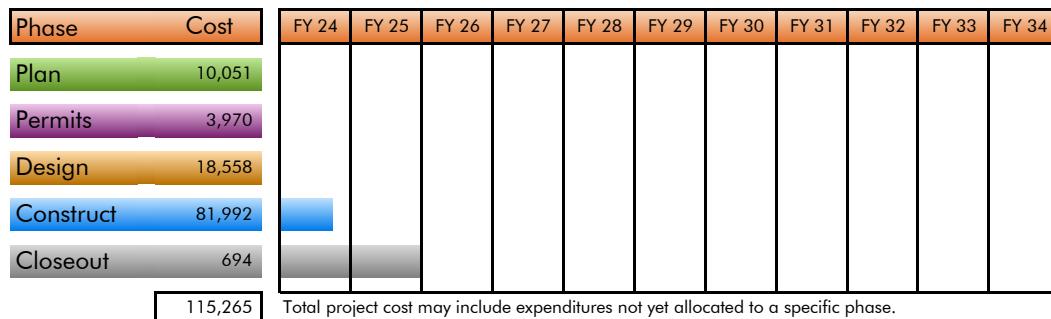
The completion of this project is anticipated to increase operating costs by approx \$240,000 per year, beginning in FY24.

**USEFUL LIFE:** 50 Years

## SCHEDULE & STATUS

July 2001 to June 2025

Construction includes multiple contract phases and three years of plant establishment monitoring.



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24		FY25	FY26	FY27	FY28	FY29	
10244001-Permanente Ck, S.F. Bay to Foothill Expwy - Lower Peninsula Fund	19,703		624	20	0	0	0	0	0	20,347
with inflation	19,703		624	21	0	0	0	0	0	20,348
26244001-Permanente Ck, S.F. Bay to Foothill Expwy	94,856		62	0	0	0	0	0	0	94,918
with inflation	94,856		62	0	0	0	0	0	0	94,918
<b>TOTAL</b>	<b>114,559</b>		<b>686</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115,265</b>
with inflation	114,559		686	21	0	0	0	0	0	115,266

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24		FY25	FY26	FY27	
10244001-Permanente Ck, S.F. Bay to Foothill Expwy - Lower Peninsula Fund	20,306	21	0	21	0	0	0	0	0	20,348
26244001-Permanente Ck, S.F. Bay to Foothill Expwy	94,918	0	0	0	0	0	0	0	0	94,918
<b>TOTAL</b>	<b>115,224</b>	<b>21</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115,266</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	20,348
SCVWD Clean, Safe Creeks and Safe, Clean Water and Natural Flood Protection Fund	93,895
City of Mountain View	1,023
<b>Total</b>	<b>115,266</b>

<b>Project</b>	<b>San Francisquito Creek, San Francisco Bay through Searsville Dam (E5)</b>
<b>Program</b>	Flood Protection – Lower Peninsula Watershed
<b>Project No.</b>	10284007s

**Contact** Bhavani Yerrapotu byerrapotu@valleywater.org



Upstream face of Pope/Chaucer Street with water surface approximately two feet below the soffit



Location Map

## PROJECT DESCRIPTION

This project provides coordination and support to the San Francisquito Joint Powers Authority, in partnership with the U.S. Army Corps of Engineers, to complete planning and design documents for an approved project alternative on San Francisquito Creek, from San Francisco Bay through Searsville Dam.

This project will accomplish the following objectives:

- Provide flood protection
- Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek
- Avoid potential adverse impacts on fish and wildlife habitats
- Minimize impacts to the creek's environmental resources and restore the riparian corridor where feasible

The San Francisquito Flood Protection project will provide 100-year flood protection from San Francisco Bay to Highway 101 and replace two bridges between Highway 101 and Middlefield Road.

This project is accounted for in the following:

- 10284007 – S.F. Bay thru Searsville Dam - Completed
- 10284008 – Early Implementation - Completed
- 26284001 – S.F. Bay thru Searsville Dam (E5) - Closed
- 26284002 – S.F. Bay to Middlefield Road (E5), Construction

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project E5. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

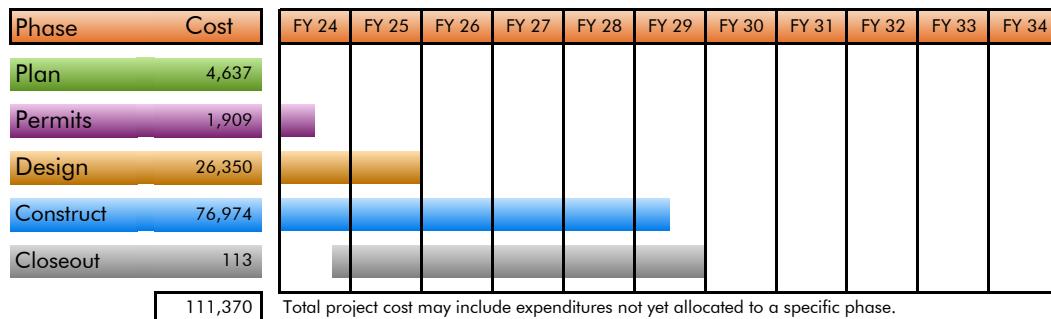
## OPERATING COST IMPACTS

These projects will increase annual operating costs by approximately \$250,000, beginning in FY27.

**USEFUL LIFE:** 30+ Years

## SCHEDULE & STATUS

June 2003 to June 2029



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
10284007-San Francisquito Ck, S.F. Bay thru Searsville Dam	4,064	0	0	0	0	0	0	0	4,064
with inflation	4,064	0	0	0	0	0	0	0	4,064
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	1,614
with inflation	1,614	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, S.F. Bay thru Searsville Dam (E5)	6,411	0	0	0	0	0	0	0	6,411
with inflation	6,411	0	0	0	0	0	0	0	6,411
26284002-San Francisquito Ck - S.F. Bay to Middlefield Road (E5), Construction	51,746	15,888	22,369	8,445	375	365	93	0	99,281
with inflation	51,746	15,888	23,754	9,453	422	427	113	0	101,803
<b>TOTAL</b>	<b>63,835</b>	<b>15,888</b>	<b>22,369</b>	<b>8,445</b>	<b>375</b>	<b>365</b>	<b>93</b>	<b>0</b>	<b>111,370</b>
<b>with inflation</b>	<b>63,835</b>	<b>15,888</b>	<b>23,754</b>	<b>9,453</b>	<b>422</b>	<b>427</b>	<b>113</b>	<b>0</b>	<b>113,892</b>

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
				FY24	FY25	FY26	FY27	FY28	
10284007-San Francisquito Ck, S.F. Bay thru Searsville Dam	4,064	0	0	0	0	0	0	0	4,064
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, S.F. Bay thru Searsville Dam (E5)	6,411	0	0	0	0	0	0	0	6,411
26284002-San Francisquito Ck - S.F. Bay to Middlefield Road (E5), Construction	63,689	4,917	972	22,781	9,453	422	427	113	0
<b>TOTAL</b>	<b>75,778</b>	<b>4,917</b>	<b>972</b>	<b>22,781</b>	<b>9,453</b>	<b>422</b>	<b>427</b>	<b>113</b>	<b>0</b>
									<b>113,892</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

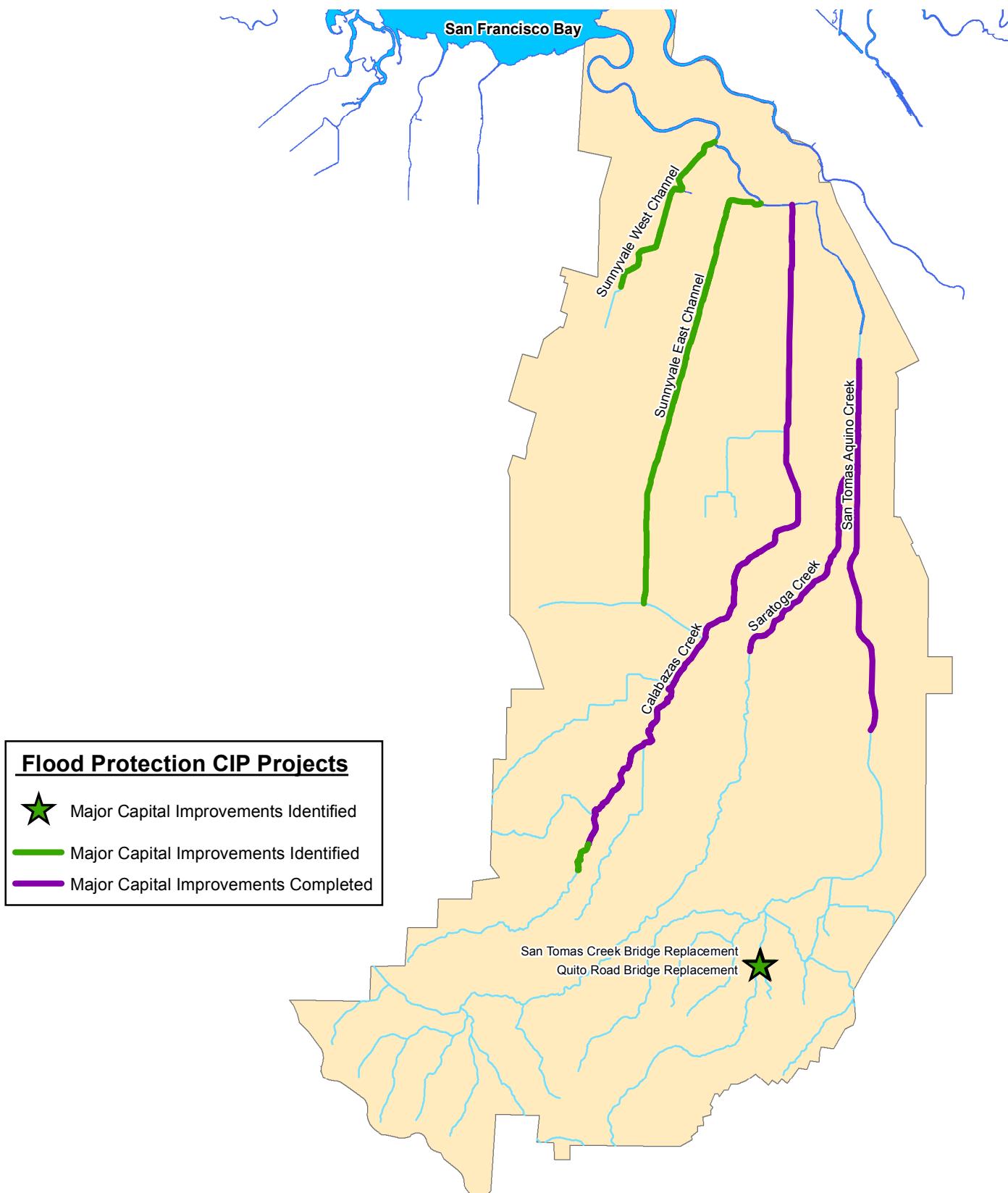
## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	5,678
SCVWD Safe, Clean Water and Natural Flood Protection Fund	75,840
JPA and Member Agencies (D/S Funding)	5,558
Unsecured Grants and Partnerships (U/S Funding)	26,816
<b>Total</b>	<b>113,892</b>
San Francisquito Joint Powers Authority	11,040
County of San Mateo - In-kind Services	1,500

County and Corps participation are for Feasibility Study activities only. Additional funding will be negotiated during subsequent phases.

# West Valley Watershed



Project  
Program  
Project No.

## Sunnyvale East and West Channels Flood Protection Project (E2)

Flood Protection – West Valley Watershed

26074002

Contact Bhavani Yerrapotu byerrapotu@valleywater.org



Sunnyvale West Channel looking south at Carl Road



Location Map

### PROJECT DESCRIPTION

The West Channel extends approximately three miles and upgrades existing channel capacity to provide 1% (or 100-year) riverine flood protection for 47 acres of highly valuable industrial lands. The East Channel extends approximately 6.4 miles and upgrades existing channel capacity to provide 1% flood protection for 1,618 parcels. The project is being constructed in two phases. Sunnyvale West Channel constitutes Phase 1 and Sunnyvale East Channel is Phase 2. Both projects decrease channel turbidity and sediment by repairing erosion sites, thereby improving water quality.

The project will accomplish the following objectives:

- Provide 1% flood capacity for approximately 6.4 miles of channel along Sunnyvale East and approximately three miles of channel along Sunnyvale West within the City of Sunnyvale, protecting 1,618 properties (Sunnyvale East) and 47 acres (11 properties) of industrial land (Sunnyvale West)
- Improve channel water quality by providing erosion control measures to decrease sediment and turbidity
- Identify opportunities to integrate recreation improvements with the City of Sunnyvale and others as appropriate

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project E2. Funding for Phase 1 construction is fully secured. Phase 2 remains a commitment under the SCW Program and Valley Water is determining additional funding sources to advance construction. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

### OPERATING COST IMPACTS

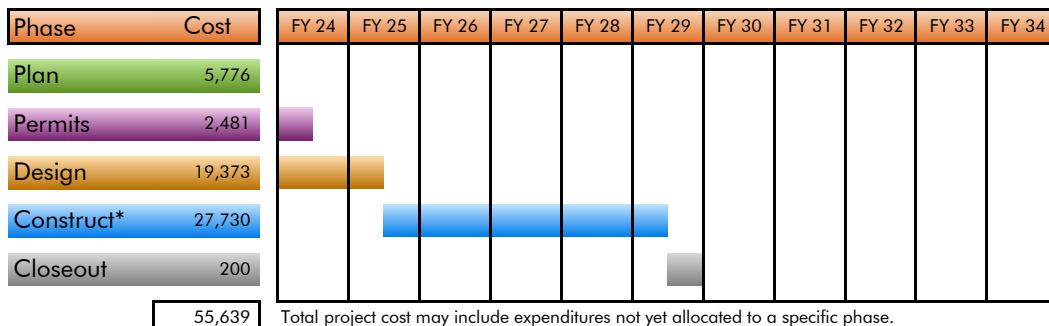
The completion of this project is anticipated to increase operating costs by approximately \$210,000 per year, beginning in FY27.

**USEFUL LIFE:** 50 Years

## SCHEDULE & STATUS

March 2006 to June 2029

\*Construction schedule reflects Phase 1 construction activities (West Channel).



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
26074002-Sunnyvale East and West Channels Flood Protection Project (E2)	26,428	10,025	9,800	4,587	2,200	1,200	1,400	0	55,639
with inflation	26,428	10,025	11,312	5,076	2,225	1,234	1,486	0	57,786

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
26074002-Sunnyvale East and West Channels Flood Protection Project (E2)	38,402	0	1,950	9,363	5,076	2,225	1,234	1,486	0	57,786

Adjusted Budget includes adopted budget plus approved budget adjustments.

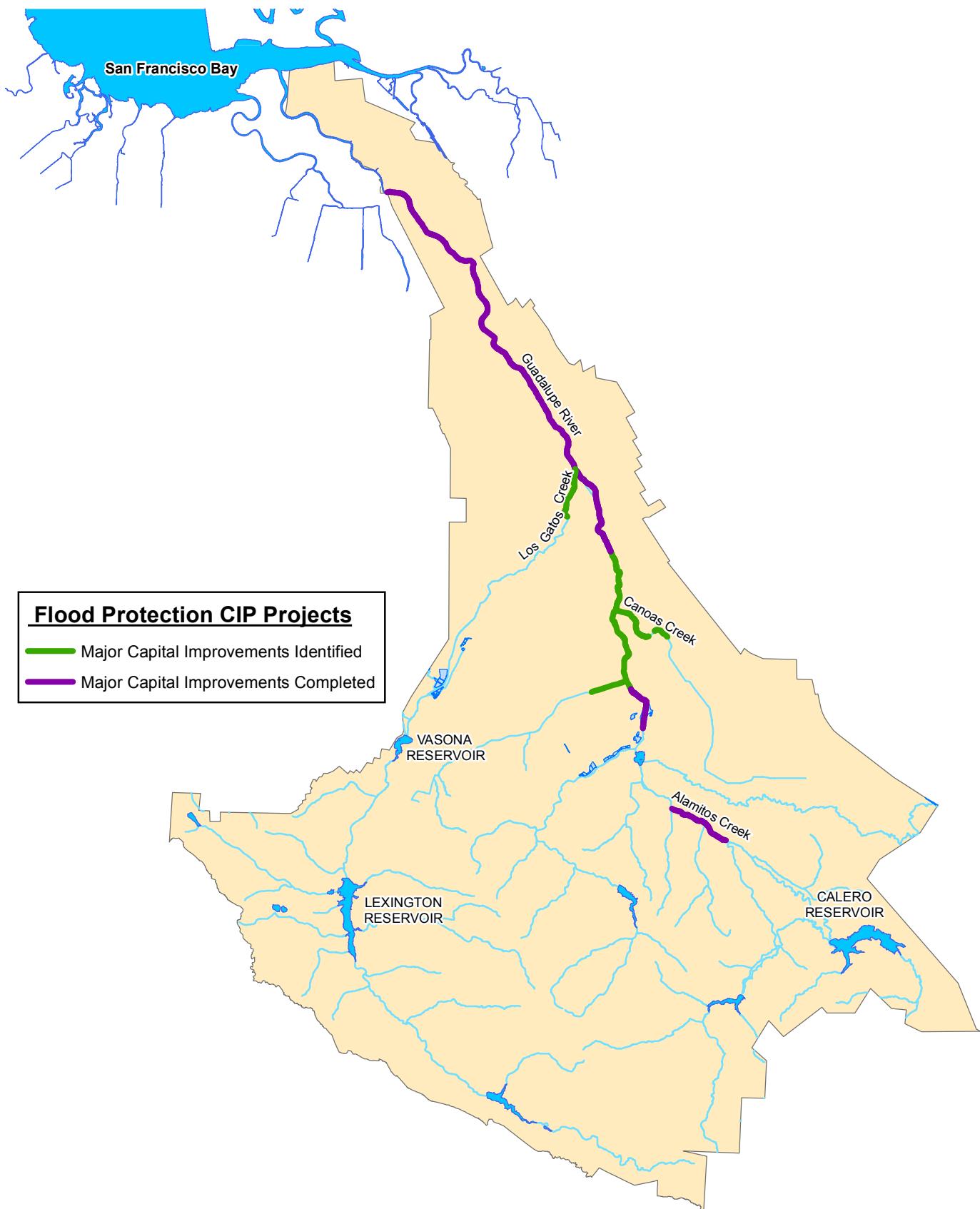
## FUNDING SOURCES

(in thousands \$)

SCVWD Clean, Safe Creeks and Safe, Clean Water and Natural Flood Protection Fund	57,786
Other Funding Source	0
<b>Total</b>	<b>57,786</b>

Valley Water estimates total debt service payment for this project's portion of the WIFIA loan would be \$30,700,000 in principal, plus \$46,600,000 in interest, for a total of \$77,300,000 with final loan payoff occurring in 2063.

# Guadalupe Watershed



**Project**  
**Program**  
**Project No.**

**Guadalupe River, Tasman Dr. to I-880**

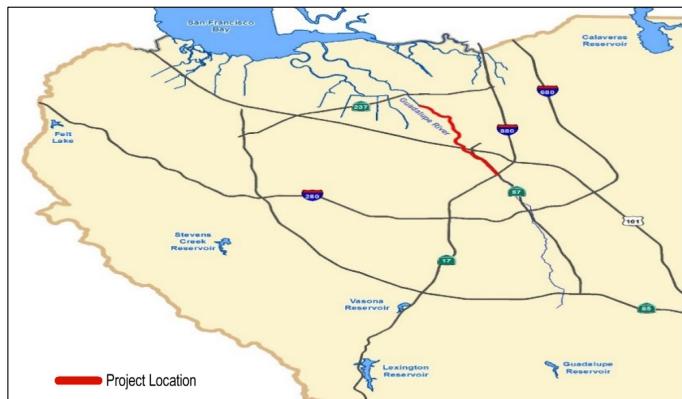
Flood Protection – Guadalupe Watershed

30154019

**Contact** Bhavani Yerrapotu byerrapotu@valleywater.org



East bank of the Guadalupe River, looking upstream toward Trimble Road



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along the Guadalupe River from Tasman Drive to Interstate 880 to restore the 100-year flood conveyance capacity.

The project will accomplish the following objective:

- Restore designed level of service along a portion of the Guadalupe River to provide 1% flood protection

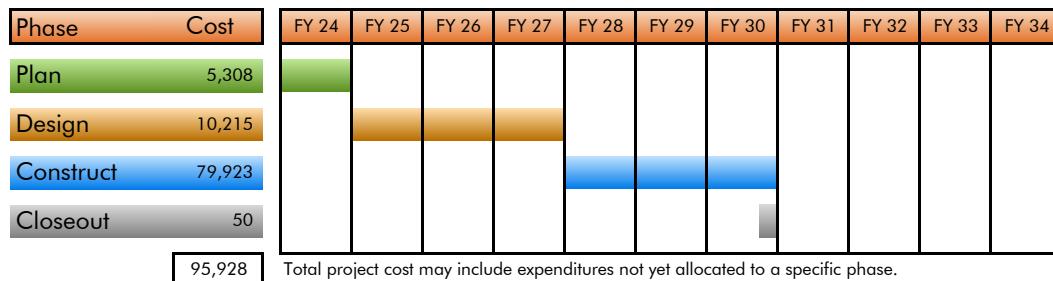
## OPERATING COST IMPACTS

Operating cost impacts will be determined during the design phase.

**USEFUL LIFE:** 100 Years

## SCHEDULE & STATUS

March 2019 to June 2030



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
30154019-Lower Guadalupe River Capacity Restoration Project	3,991	2,964	3,000	3,000	3,000	27,407	26,283	26,283	95,928	
with inflation	3,991	2,964	3,120	3,245	3,375	30,938	29,670	29,676	106,979	

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
					FY24	FY25	FY26	FY27	FY28	FY29	
30154019-Lower Guadalupe River Capacity Restoration Project	5,613	5,613	1,341	0	3,121	3,245	3,375	30,938	29,670	29,676	106,979

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	106,979
Other Funding Sources	0
<b>Total</b>	<b>106,979</b>

Project  
Program  
Project No.

## Guadalupe River—Upper, Interstate 280 to Blossom Hill Road (E8)

Flood Protection - Guadalupe Watershed  
26154001s

Contact Bhavani Yerrapotu byerrapotu@valleywater.org



Flooding from Guadalupe River on Willow Street  
near the Southern Pacific Railroad Bridge



Location Map

### PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (USACE) to plan, design, and construct improvements along approximately 6 miles of the Guadalupe River, from Interstate 280 to Blossom Hill Road, to accomplish the following objectives:

- Provide 1% flood protection to nearly 7,000 parcels along the Guadalupe River, from Interstate 280 to Blossom Hill Road, including portions of Ross Creek and Canoas Creek
- Provide long-term net gains of 15 acres in riparian forest acreage, quality, and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout
- Provide access to an additional 19 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources
- Coordinate with the City of San José and the community to establish a continuous maintenance road suitable for trail development between Interstate 280 and Los Alamitos Creek
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and tributaries
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group

This project is accounted for in the following:

- 26154001 – Fish Passage Modification - Completed
- 26154002 – I-280 to Southern Pacific Railroad Bridge, Reach 6 - Completed
- 26154003 – Southern Pacific Railroad Bridge to Blossom Hill Road, Reaches 7-12: The USACE is conducting a General Re-Evaluation Report, which is expected to be completed in fiscal year 2025

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project E8. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

### OPERATING COST IMPACTS

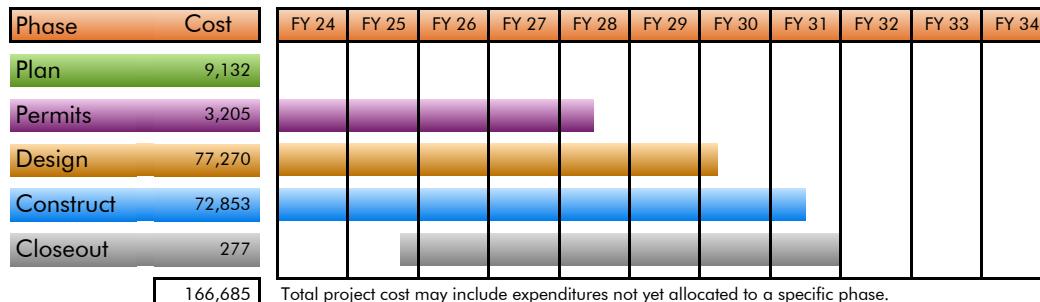
The operating cost impacts are anticipated to increase by approximately \$360,000 per year, beginning in FY21, for mitigation and monitoring labor and equipment, implementation of adaptive management measures, and O&M in accordance with the USACE O&M Manual.

**USEFUL LIFE:** 30+ Years

## SCHEDULE & STATUS

September 1985 to June 2031

Planning phase is complete.  
Design and construction of eight individual reaches are being done sequentially.



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
26154001-Guadalupe Rv—Upr, Fish Passage Mods (E8)	2,651	0	0	0	0	0	0	0	2,651
with inflation	2,651	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR - Reach 6 (E8)	34,721	160	160	30	160	200	1,480	535	37,447
with inflation	34,721	160	166	32	180	234	1,942	677	38,114
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. - Reaches 7-12 (E8)	69,121	314	100	8,725	22,940	16,000	1,500	0	118,700
with inflation	69,121	314	104	9,567	25,862	18,133	1,825	0	124,926
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	7,887
with inflation	7,887	0	0	0	0	0	0	0	7,887
<b>TOTAL</b>	<b>114,379</b>	<b>474</b>	<b>260</b>	<b>8,755</b>	<b>23,100</b>	<b>16,200</b>	<b>2,980</b>	<b>535</b>	<b>166,685</b>
with inflation	114,379	474	270	9,599	26,042	18,368	3,767	677	173,578

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
26154001-Guadalupe Rv—Upr, Fish Passage Mods (E8)	2,651	0	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR - Reach 6 (E8)	35,421	0	540	0	0	0	0	73	1,942	677
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. - Reaches 7-12 (E8)	89,399	0	19,964	0	0	15,569	18,133	1,825	0	124,926
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	0	7,887
<b>TOTAL</b>	<b>135,358</b>	<b>0</b>	<b>20,505</b>	<b>0</b>	<b>0</b>	<b>15,569</b>	<b>18,207</b>	<b>3,767</b>	<b>677</b>	<b>173,578</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	12,000
SCVWD Safe, Clean Water and Natural Flood Protection Fund	125,560
State of California	31,427
City of San José	4,591
<b>Total</b>	<b>173,578</b>

# Coyote Watershed



## Flood Protection CIP Projects

- Major Capital Improvements Identified
- Major Capital Improvements Completed

Project  
Program  
Project No.

## Berryessa Creek, Calaveras Boulevard to Interstate 680

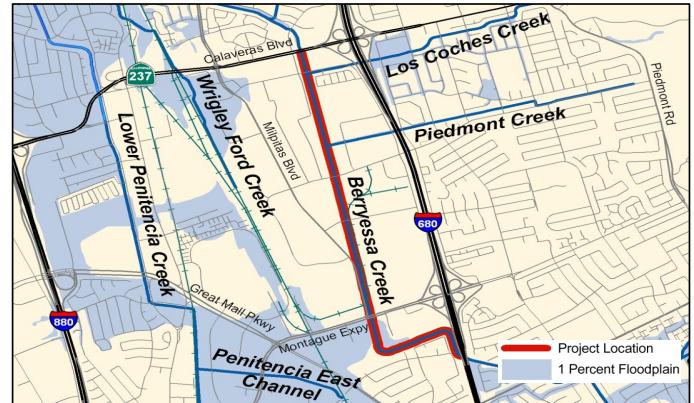
Flood Protection - Coyote Watershed

26174041s

Contact Bhavani Yerrapotu byerrapotu@valleywater.org



Berryessa Creek near flood stage at Piedmont Road in San José



Location Map

### PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (USACE) to plan, design, and construct improvements along approximately two miles of Berryessa Creek, from Calaveras Boulevard to Interstate 680, to accomplish the following objectives:

- Provide 1% flood protection to more than 1,100 homes, businesses, and public buildings
- Reduce sedimentation and maintenance requirements
- Mitigate for project impacts
- Improve stream habitat values
- Coordinate with the cities of San José and Milpitas, and the community to establish a continuous maintenance road suitable for trail development along the Berryessa Creek project
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency

This project is accounted for in the following:

- 26174041 – USACE Coordination
- 26174042 – Lands, Easements, Rights-of-Way, Relocations and Disposal (Reimbursable)

This project meets the commitments of the voter-approved 2012 Safe, Clean Water Program (SCW). For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

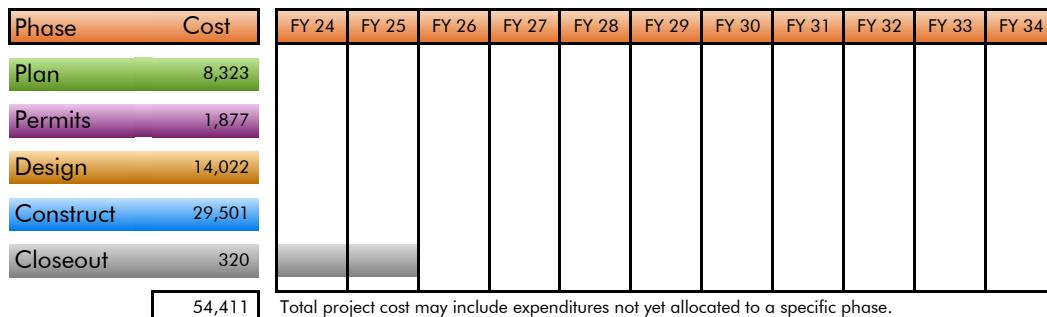
### OPERATING COST IMPACTS

The operating cost impacts are anticipated to increase by approximately \$153,000 per year, beginning in FY24.

**USEFUL LIFE:** 30+ Years

## SCHEDULE & STATUS

January 2000 to June 2025



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
	FY23	FY24		FY25	FY26	FY27	FY28	FY29	Future	
26174041-Berryessa Creek, USACE Coordination	24,075		12,565	100	0	0	0	0	0	36,741
with inflation	24,075		12,565	104	0	0	0	0	0	36,745
26174042-Berryessa Creek, LERRDs	17,670		0	0	0	0	0	0	0	17,670
with inflation	17,670		0	0	0	0	0	0	0	17,670
<b>TOTAL</b>	<b>41,746</b>		<b>12,565</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54,411</b>
<b>with inflation</b>	<b>41,746</b>		<b>12,565</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54,415</b>

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
	FY23	FY24		FY25	FY26	FY27	FY28	FY29	Future	
26174041-Berryessa Creek, USACE Coordination	35,594	1,146	100	4	0	0	0	0	0	36,745
26174042-Berryessa Creek, LERRDs	17,670	0	0	0	0	0	0	0	0	17,670
<b>TOTAL</b>	<b>53,264</b>	<b>1,147</b>	<b>100</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54,415</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Clean, Safe Creeks and Safe, Clean Water and Natural Flood Protection Fund	18,815
State of California	25,600
Department of Water Resources (Prop 1E)	10,000
<b>Total</b>	<b>54,415</b>
USACE In-kind Services	13,600

Project  
Program  
Project No.

## Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard (E3)

Flood Protection - Coyote Watershed

40174004s

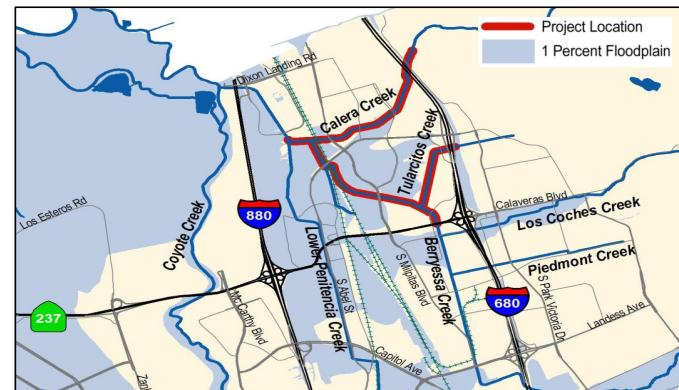
Contact

Bhavani Yerrapotu

byerrapotu@valleywater.org



Berryessa Creek upstream of the confluence  
with Lower Penitencia Creek



Location Map

### PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately three miles of Berryessa Creek and its tributaries, from the confluence with Lower Penitencia Creek to Calaveras Boulevard (Phase 1 and 2) and both Calera and Tularcitos Creeks (Phase 3), to accomplish the following objectives:

- Provide 1% flood protection to 1,823 homes, businesses, and public buildings in the surrounding area
- Improve the structural integrity of the levees
- Improve maintenance access and safety for Valley Water staff
- Identify opportunities to integrate recreation inputs consistent with the City of Milpitas' Trail Master Plan
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency

This project is anticipated to be completed and closed by June 30, 2024.

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project E3. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

### OPERATING COST IMPACTS

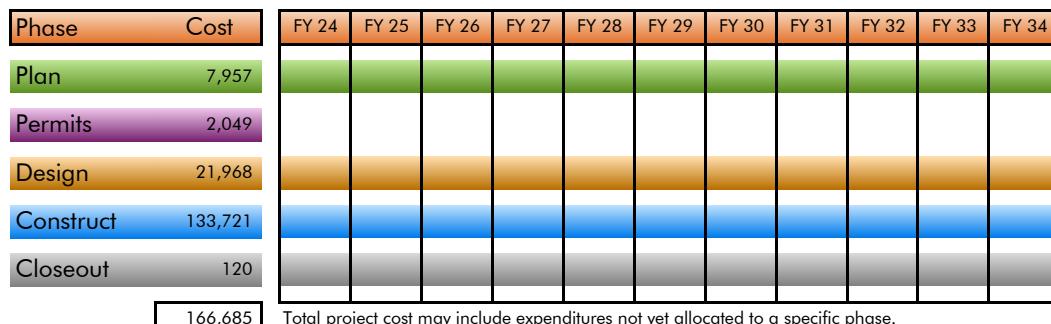
The operating cost impacts are anticipated to increase by approximately \$250,000 per year, beginning in FY24.

**USEFUL LIFE:** 30+ Years

## SCHEDULE & STATUS

March 2001 to June 2041

Planning phase is complete.  
Construction includes three phases and three years of plant establishment monitoring.



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Actuals Thru	Planned Expenditures							Total
			FY24	FY25	FY26	FY27	FY28	FY29	Future	
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard, Phase 1	46,897		5	0	0	0	0	0	0	46,902
with inflation	46,897		5	0	0	0	0	0	0	46,902
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard, Phase 2	87,727		1,605	255	80	0	0	0	0	89,667
with inflation	87,727		1,605	265	87	0	0	0	0	89,684
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard, Phase 3	0		0	0	0	0	0	0	24,967	24,967
with inflation	0		0	0	0	0	0	0	49,773	49,773
26C40420-Phase 3 Planning/Design only (E3)	0		0	0	0	0	0	0	5,150	5,150
with inflation	0		0	0	0	0	0	0	7,756	7,756
<b>TOTAL</b>	<b>134,624</b>		<b>1,610</b>	<b>255</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,117</b>	<b>166,685</b>
<b>with inflation</b>	<b>134,624</b>		<b>1,610</b>	<b>265</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>57,529</b>	<b>194,114</b>

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests							Total
					FY24	FY25	FY26	FY27	FY28	FY29	Future	
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard, Phase 1	48,591		0	1,690	0	0	0	0	0	0	0	48,591
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard, Phase 2	89,087		342	97	168	87	0	0	0	0	0	89,684
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard, Phase 3	0		0	0	0	0	0	0	0	0	49,773	49,773
26C40420-Phase 3 Planning/Design only (E3)	0		0	0	0	0	0	0	0	0	7,756	7,756
<b>TOTAL</b>	<b>137,678</b>		<b>342</b>	<b>1,787</b>	<b>168</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>57,529</b>	<b>195,804</b>

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds planned expenditures by approximately \$1,690,000.

Excess funds will be returned to Fund Reserves at the close of the project.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	180,804
SCVWD Safe, Clean Water Fund	7,756
Department of Water Resources (Prop 1E)	15,000
<b>Total</b>	<b>195,804</b>

Project  
Program  
Project No.

## Coyote Creek, Montague Expressway to Tully Road (E1)

Flood Protection – Coyote Watershed

26174043

Contact

Bhavani Yerrapotu

byerrapotu@valleywater.org



February 2017 flood event, Rock Springs Drive looking northeast towards Rocksprings Park



Location Map

### PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately nine miles of Coyote Creek, from Montague Expressway to Tully Road, to accomplish the following objectives:

- To reduce the risk of flooding to homes, schools, businesses, and highways from approximately a 20-year flood event (February 2017 event), from Montague Expressway to Tully Road
- Improve water quality, enhance stream habitat, and provide recreational opportunities
- Incorporate aesthetic elements of the Coyote Creek park chain
- Minimize long-term maintenance needs

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project E1. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

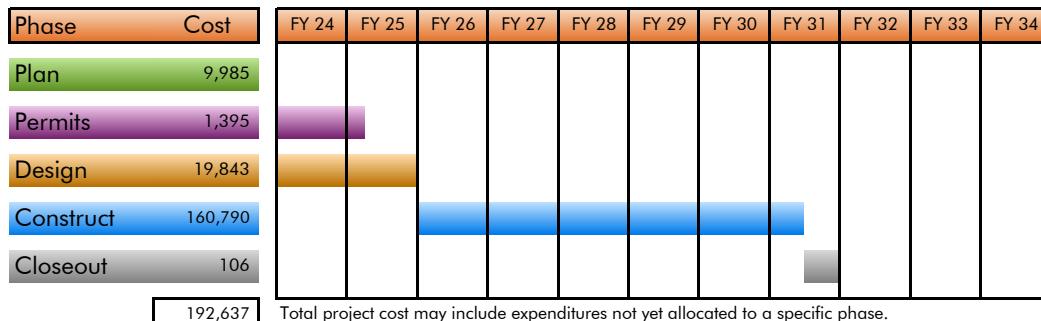
### OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$1,000,000 per year, beginning in FY31.

**USEFUL LIFE:** 30+ Years

## SCHEDULE & STATUS

November 2017 to June 2031



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures							Total	
		FY23	FY24	FY25	FY26	FY27	FY28	FY29		
26174043-Coyote Creek, Montague Expressway to Tully Road (E1)	21,447		5,388	12,877	84,200	65,602	2,694	30	400	192,637
with inflation	21,447		5,388	13,576	94,496	77,484	3,195	36	522	216,143

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total	
				FY23	FY24	FY25	FY26	FY27		
26174043-Coyote Creek, Montague Expressway to Tully Road (E1)	25,230	1,604	0	13,576	94,496	77,484	3,195	36	522	216,143

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Clean, Safe Creeks and Safe, Clean Water and Natural Flood Protection Fund	216,143
Other Funding Sources	0
<b>Total</b>	<b>216,143</b>

Valley Water estimates total debt service payment for this project's portion of the WIFIA loan would be \$103,700,000 in principal, plus \$157,800,000 in interest, for a total of \$261,500,000 with final loan payoff occurring in 2063.

Project  
Program  
Project No.

Lower Penitencia Creek Improvements, Coyote Creek to Berryessa Creek

Flood Protection - Coyote Watershed

40334005

Contact Bhavani Yerrapotu byerrapotu@valleywater.org



Milmont Road to California Circle (Midstream Right Bank)



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately one mile of Lower Penitencia Creek from the downstream confluence with Coyote Creek to the downstream face of San Andreas Drive, to accomplish the following objectives:

- Convey the Lower Berryessa Creek 1% design flow
- Meet required water surface elevations at Coyote Creek and Berryessa Creek confluences
- Minimize the need for seasonal removal of sediment and non-woody vegetation
- Maintain existing Federal Emergency Management Agency (FEMA) accreditation along the east levee located between California Circle and Berryessa Creek
- Enable FEMA certification of the improvements

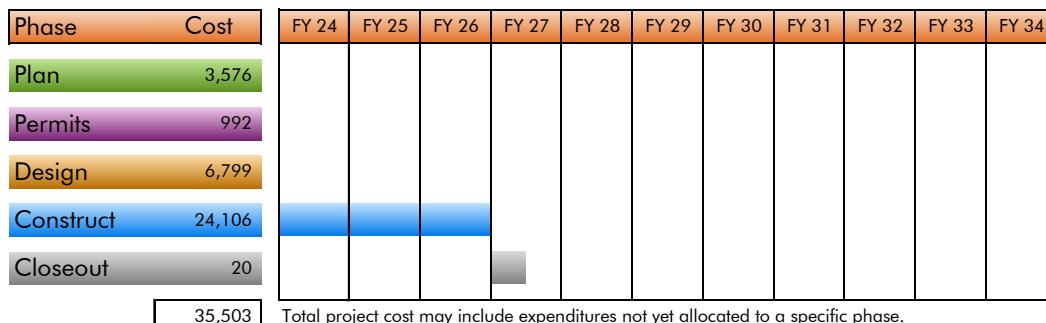
## OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$264,000 per year, beginning in FY26.

**USEFUL LIFE:** 50 Years

## SCHEDULE & STATUS

October 2010 to December 2026



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							Total	
Project	FY23	FY24		FY25	FY26	FY27	FY28	FY29	Future	Total
40334005-Lower Penitencia Creek Improvements, Coyote Creek to Berryessa Creek	34,752		465	139	129	20	0	0	0	35,503
with inflation	34,752		465	144	139	22	0	0	0	35,522

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY23	FY24		FY25	FY26	FY27	FY28	FY29	Future	Total
40334005-Lower Penitencia Creek Improvements, Coyote Creek to Berryessa Creek	34,869	525	178	0	105	22	0	0	0	35,522

Adjusted Budget includes adopted budget, plus a planned budget adjustment of \$450,000.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	30,522
Department of Water Resources (Prop 1E)	5,000
City of Milpitas	314
<b>Total</b>	<b>35,522</b>

Project  
Program  
Project No.

## Upper Penitencia Creek, Coyote Creek to Dorel Drive (E4)

Flood Protection - Coyote Watershed

40324003s

Bhavani Yerrapotu

byerrapotu@valleywater.org



Flooding at King Road on Upper Penitencia Creek



Location Map

### PROJECT DESCRIPTION

Initially, this project partnered with the U.S. Army Corps of Engineers (USACE) to plan and design improvements along approximately 4.2 miles of Upper Penitencia Creek, from the confluence with Coyote Creek to Dorel Drive, to accomplish the objectives listed below. In 2016, the USACE decided that the multi-objective project which is appropriate for this creek could not be funded under the existing single-purpose authorization. The project has not been included in the USACE workplan since 2017. As Federal funding has not been secured and the local funding is insufficient to construct the project, Valley Water will reassess the availability of funding on an annual basis as part of the Capital Improvement Program's financial planning process.

This project will accomplish the following objectives:

- Provide 1% flood protection to more than 8,000 parcels
- Improve stream habitat values and fisheries potential
- Reduce sedimentation and maintenance requirements
- Identify opportunities to integrate recreation improvements consistent with the City of San José's Master Plans, the County's Penitencia Creek Master Plan, and Santa Clara Countywide Trails Master Plan

This project is accounted for in the following:

- 40324003 – USACE Coordination - Completed
- 40324005 – Lands, Easements, Rights-of-Way, Relocations and Disposal - Completed
- 26324001 – Planning and Design

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project E4. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

### OPERATING COST IMPACTS

No operating cost impacts are anticipated from this project, as it includes only the planning and design phase.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2000 to June 2025

\*Construction phase includes prior year construction costs for projects that are now closed.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	8,891											
Permits	419											
Design	6,483											
Construct*	1,480											
Closeout	-											
	17,602											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures							Total
	FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, USACE Coordination	9,467	0	0	0	0	0	0	0	9,467
with inflation	9,467	0	0	0	0	0	0	0	9,467
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	2,309	0	0	0	0	0	0	0	2,309
with inflation	2,309	0	0	0	0	0	0	0	2,309
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	2,999	2,418	409	0	0	0	0	0	5,826
with inflation	2,999	2,418	425	0	0	0	0	0	5,843
<b>TOTAL</b>	<b>14,775</b>	<b>2,418</b>	<b>409</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,602</b>
<b>with inflation</b>	<b>14,775</b>	<b>2,418</b>	<b>425</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,619</b>

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
	FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, USACE Coordination	9,467	0	0	0	0	0	0	0	9,467
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	2,309	0	0	0	0	0	0	0	2,309
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	11,253	0	5,835	0	0	0	0	0	11,253
<b>TOTAL</b>	<b>23,029</b>	<b>0</b>	<b>5,835</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,029</b>

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$5,411,000.

Excess funding will be returned to reserves upon project completion.

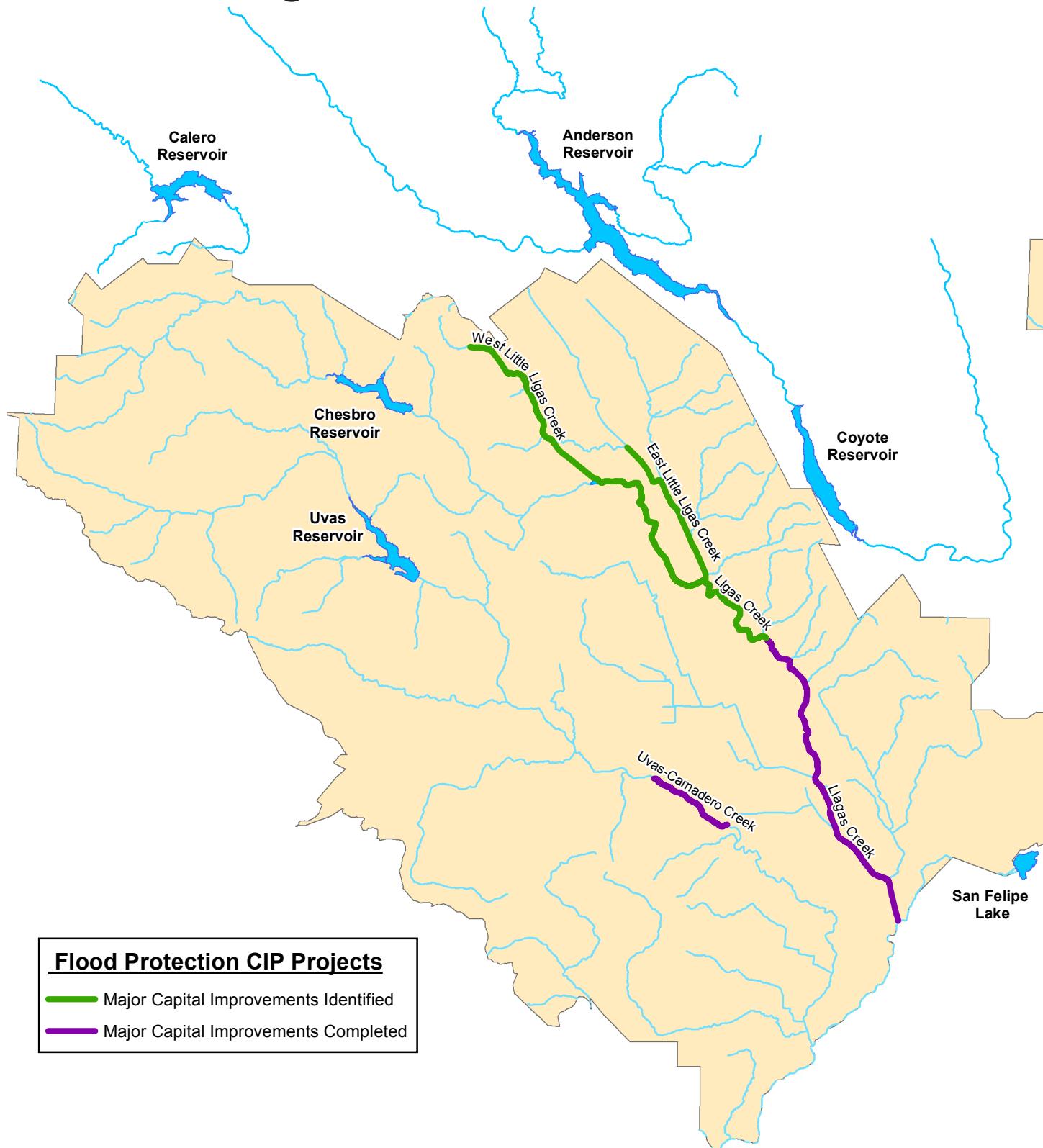
## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	11,776
SCVWD Safe, Clean Water Fund	11,253
<b>Total</b>	<b>23,029</b>

Valley Water estimates total debt service payment for this project's portion of the WIFIA loan would be \$11,700,000 in principal, plus \$17,800,000 in interest, for a total of \$29,500,000 with final loan payoff occurring in 2063.

# Uvas/Llagas Watersheds



**Project**  
**Program**  
**Project No.**

**Llagas Creek-Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River**

Flood Protection - Uvas/Llagas Watershed

50284010

**Contact** Bhavani Yerrapotu [byerrapotu@valleywater.org](mailto:byerrapotu@valleywater.org)



Lower Llagas Creek near the Pajaro River



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on 7.15 miles of Lower Llagas Creek, from Buena Vista Avenue to Pajaro River, to accomplish the following objectives:

- Evaluate the current flood risk in the area surrounding the project versus the design level flood risk
- Develop options to provide flood protection for Lower Llagas Creek Reaches 2 and 3 in accordance with Federal Emergency Management Agency criteria where applicable
- Identify feasible opportunities for environmental restoration and corridor preservation
- Coordinate planning, design, and construction efforts with the South County Regional Wastewater Authority

On August 4, 2023, Governor Newsom issued Executive Order N-10-231 which applies to the Pajaro River and tributaries in response to the flooding that occurred in January 2023. The executive order (EO) suspends certain permitting requirements for activities related to vegetation management. As part of this project, and in response to the EO, Valley Water removed several acres of vegetation along Lower Llagas Creek to partially restore capacity of the channel. Additional improvements will be needed to fully restore capacity, however this initial vegetation removal work significantly reduced the need for future improvements. In addition, at the January 9, 2024 Board meeting, this project was added to the unfunded list therefore expenditures in FY25 and beyond will be removed.

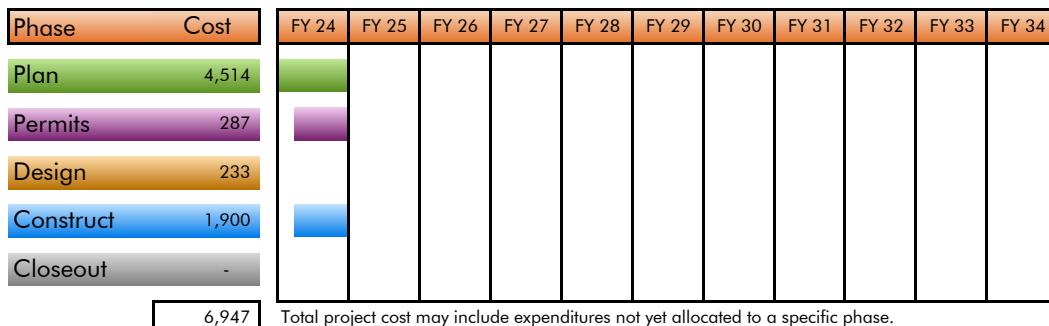
## OPERATING COST IMPACTS

Operating cost impacts will be determined at the completion of the design phase.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

March 2006 to June 2024



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
50284010-Llagas Creek-Lower, Capacity Restoration, Buena Vista Ave to Pajaro River	3,861	3,086	0	0	0	0	0	0	0	6,947
with inflation	3,861	3,086	0	0	0	0	0	0	0	6,947

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total	
					FY24	FY25	FY26	FY27	FY28	FY29		
50284010-Llagas Creek-Lower, Capacity Restoration, Buena Vista Ave to Pajaro River	6,947	0	0	0	0	0	0	0	0	0	0	6,947

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	6,827
State of California	120
<b>Total</b>	<b>6,947</b>

Project  
Program  
Project No.

## Llagas Creek–Upper, Buena Vista Avenue to Llagas Road (E6)

Flood Protection - Uvas/Llagas Watershed

26174051s

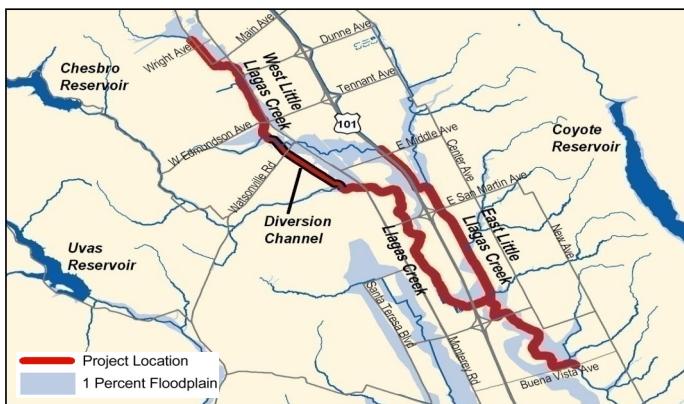
Contact

Bhavani Yerrapotu

byerrapotu@valleywater.org



Llagas Creek floods at Watsonville Road and the surrounding area



Location Map

### PROJECT DESCRIPTION

This project continues a Clean, Safe Creeks project in partnership with the U.S. Army Corps of Engineers (USACE) and the state to plan, design, and construct improvements along 13.9 miles of channel. The project extends from Buena Vista Avenue to Llagas Road, including West Little Llagas Creek in downtown Morgan Hill. The federally authorized preferred project protects the urban area of Morgan Hill from a 1% (or 100-year) flood, and reduces the frequency of flooding in surrounding areas. Construction includes channel modifications and replacement of road crossings. Valley Water continues to work with Congress to aggressively pursue federal funds to bring this project to full fruition. In 2012, project limits were extended 2,700 feet upstream to Llagas Road to address public concerns.

This project is accounted for in the following:

- 26174051 – Reaches 4-8 & 14 - Lands, Easements, Rights of Way, Relocation, & Disposal (Reimbursable)
- 26174052 – Reaches 4-8 & 14 - Construction/Coordination with USACE
- 26174053 – Technical Studies - Completed
- 26174054 – Design
- 26174055 – Phase 2B Construction

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project E6. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

### OPERATING COST IMPACTS

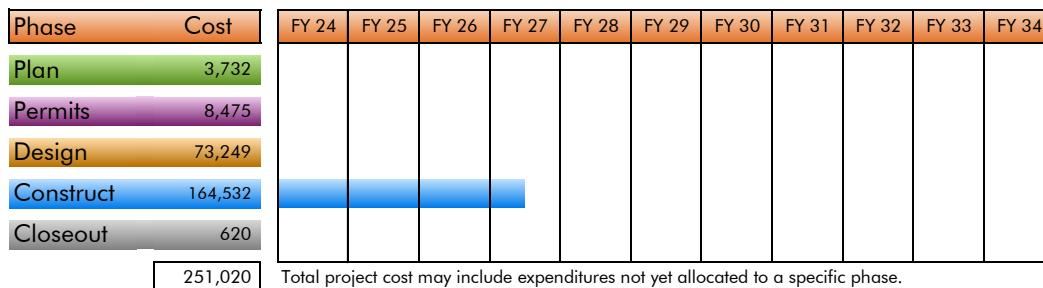
The completion of this project is anticipated to increase operating costs by \$1,500,000 per year, beginning in FY26.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

July 2000 to June 2027

Project schedule may vary considerably and is dependent upon the USACE and Congress.



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
26174051-Llagas Ck—Upper, LERRDs	46,402		2,707	500	500	20	0	0	0	50,128
with inflation	46,402		2,707	520	541	22	0	0	0	50,192
26174052-Llagas Ck—Upper, USACE Coordination	148,249		19,265	4,815	250	0	0	0	0	172,579
with inflation	148,249		19,265	5,178	270	0	0	0	0	172,963
26174053-Llagas Ck—Upper, Technical Studies	1,446		0	0	0	0	0	0	0	1,446
with inflation	1,446		0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	22,709		2,060	1,149	949	0	0	0	0	26,867
with inflation	22,709		2,060	1,195	1,026	0	0	0	0	26,990
26174055-Llagas Ck—Phase 2B Construction	0		22,400	50,000	10,000	0	0	0	0	82,400
with inflation	0		22,400	56,000	11,200	0	0	0	0	89,600
<b>TOTAL</b>	<b>218,806</b>		<b>24,032</b>	<b>6,464</b>	<b>1,699</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>251,020</b>
<b>with inflation</b>	<b>218,806</b>		<b>46,432</b>	<b>62,893</b>	<b>13,037</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>341,190</b>

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
26174051-Llagas Ck—Upper, LERRDs	48,088	2,022	1,001	0	60	22	0	0	0	50,192
26174052-Llagas Ck—Upper, USACE Coordination	172,056	0	4,541	637	270	0	0	0	0	172,963
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	28,193	0	3,424	0	0	0	0	0	0	28,193
26174055-Llagas Ck—Phase 2B Construction	0	22,400	0	56,000	11,200	0	0	0	0	89,600
<b>TOTAL</b>	<b>249,783</b>	<b>24,422</b>	<b>8,966</b>	<b>56,637</b>	<b>11,530</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>342,393</b>

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$1,203,000.

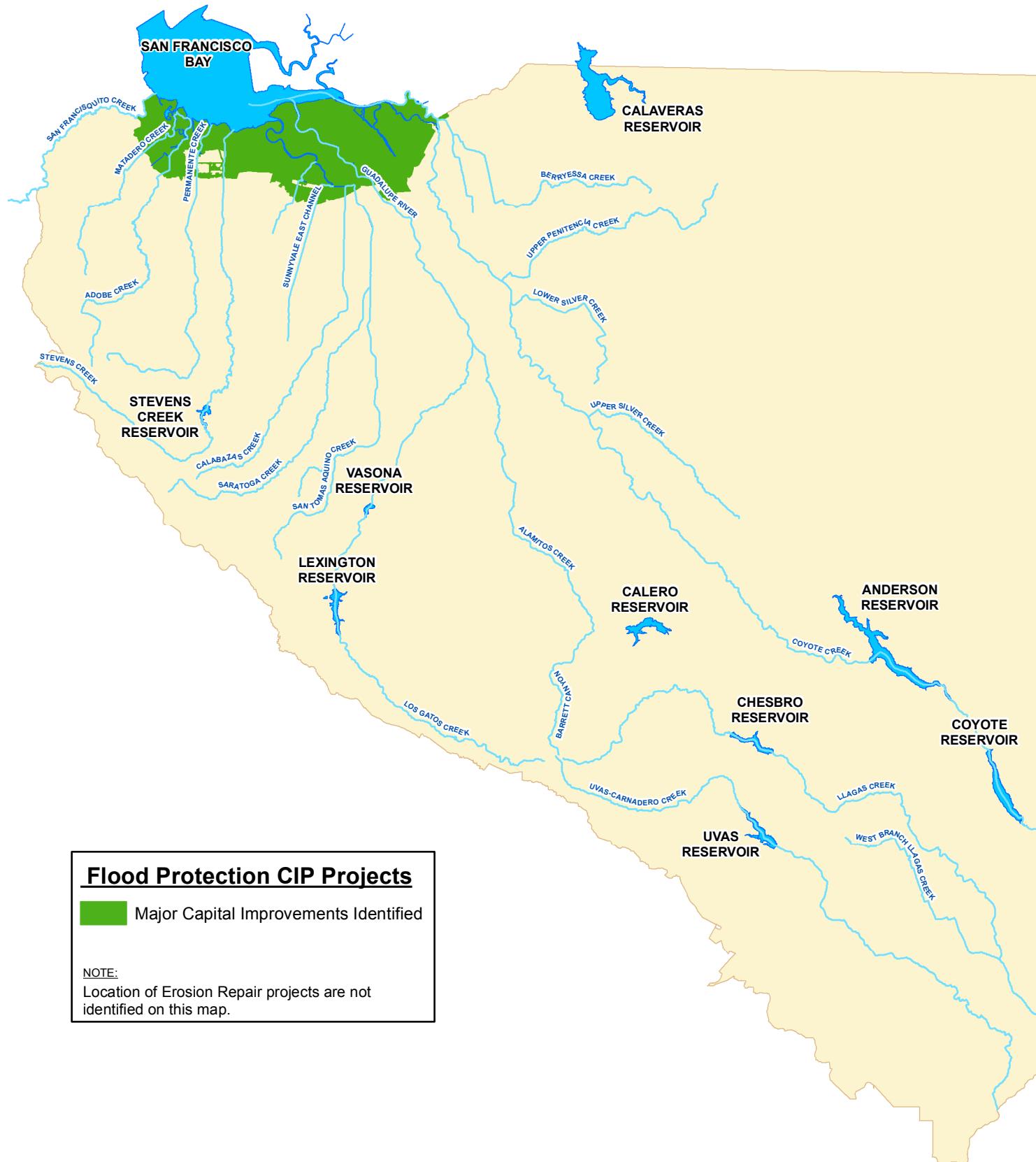
Excess funding will be returned to reserves upon project completion.

## FUNDING SOURCES

(in thousands \$)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,900
SCVWD Safe, Clean Water Fund	179,217
SCVWD Watershed Stream Stewardship Fund	23,690
State of California	36,068
City of Morgan Hill	4,315
NRCS Grants (Unsecured)	80,000
<b>Total</b>	<b>341,190</b>
USACE In-kind Services	65,000

# Multiple Watersheds

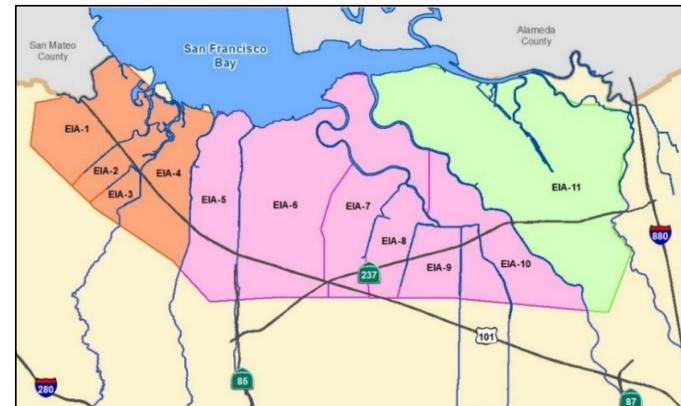


<b>Project</b>	<b>San Francisco Bay Shoreline (E7)</b>
<b>Program</b>	Flood Protection - Multiple Watersheds
<b>Project No.</b>	00044026s
<b>Contact</b>	Bhavani Yerrapotu byerrapotu@valleywater.org



Photo by Cris Benton

Restoration of tidal marshland in the San Francisco Bay



Location Map

## PROJECT DESCRIPTION

The Shoreline Project area is broken up into eleven economic impact area (EIA) and will be completed in phases.

- Phase I is comprised of EIA 11, which includes the shoreline area between Coyote Creek and Guadalupe River in San José; Under the 2012 Safe, Clean Water (SCW) Program, \$15,000,000 was provided toward Valley Water's cost-share of the design and partial construction efforts
- Phase II is comprised of EIAs 1, 2, 3, and 4, which includes the shoreline area between San Francisquito Creek in Palo Alto to Permanente Creek in Mountain View; Under the renewed SCW Program, approximately \$25,000,000 will be provided toward Valley Water's cost-share of the planning, design and construction phase efforts
- Phase III is comprised of EIAs 5, 6, 7, 8, 9, and 10, which includes the shoreline area between Permanente Creek in Mountain View and Guadalupe River in San José; Under the renewed SCW Program, approximately \$12,000,000 will be provided toward Valley Water's cost-share of the planning and design phase efforts for EIAs 5-9. Funding for EIA 10 is yet to be determined

This project partners with the California Coastal Conservancy, U.S. Army Corps of Engineers (USACE) and key stakeholders to conduct an integrated, multi-objective project along the San Francisco Bay Shoreline to accomplish the following objectives:

- Provide integrated fluvial and 1% coastal flood protection
- Provide protection for future sea level rise
- Restore and/or enhance tidal marsh and related habitats
- Provide recreational and public access opportunities
- Pursue continued federal funding
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency
- Coordinate closely with the South Bay Salt Pond Restoration Project, local jurisdictions/cities, U.S. Fish and Wildlife Service, the community and key stakeholders

This project is accounted for in the following:

- 62044042 – Shoreline, Early Implementation - Completed
- 00044026 – San Francisco Bay Shoreline (Phase I)
- 26444001 – EIA 11, Design and Partial Construction (E7), Phase I - Completed
- 26444002 – EIAs 1-4 (E7), Phase II
- 26444004 – EIAs 5-9 (E7), Phase III

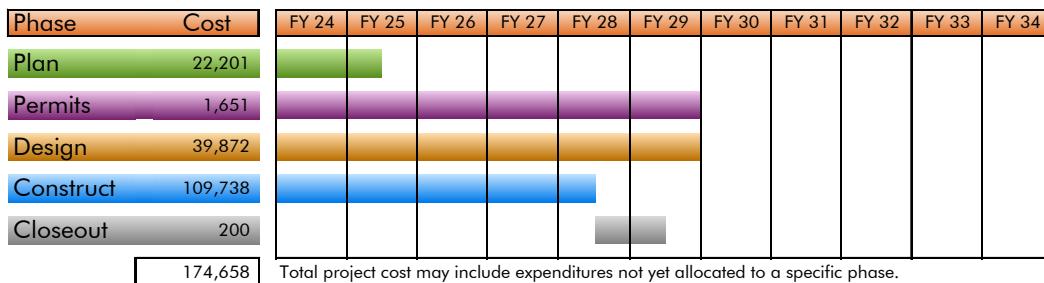
This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project E7. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

## OPERATING COST IMPACTS

Operating costs will be determined upon completion of the construction phase.

## SCHEDULE & STATUS

July 2005 to June 2029



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures							Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	
00044026-San Francisco Bay Shoreline	88,009		13,297	51	14,149	0	0	0	115,506
with inflation	88,009		13,297	53	15,965	0	0	0	117,324
10044027 - San Francisco Bay Shoreline - Contribution	490		0	0	0	0	0	0	490
with inflation	490		0	0	0	0	0	0	490
62044042-Shoreline, Early Implementation	359		0	0	0	0	0	0	359
with inflation	359		0	0	0	0	0	0	359
26444001-EIA 11, Design & Partial Construction (E7)	17,516		0	0	0	0	0	0	17,516
with inflation	17,516		0	0	0	0	0	0	17,516
26444002-EIAs 1-4 (E7)	5,161		4,952	1,025	5,200	5,200	5,200	0	26,738
with inflation	5,161		4,952	1,066	5,624	5,849	6,083	0	28,735
26444004-EIAs 5-9 (E7)	200		2,250	1,750	775	3,025	3,025	3,025	14,050
with inflation	200		2,250	1,820	838	3,403	3,539	3,680	15,730
<b>TOTAL</b>	<b>111,735</b>		<b>20,499</b>	<b>2,826</b>	<b>20,124</b>	<b>8,225</b>	<b>8,225</b>	<b>3,025</b>	<b>0</b>
<b>    with inflation</b>	<b>111,735</b>		<b>20,499</b>	<b>2,939</b>	<b>22,428</b>	<b>9,252</b>	<b>9,622</b>	<b>3,680</b>	<b>0</b>
									<b>180,154</b>

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
00044026-San Francisco Bay Shoreline	98,510	2,796	0	53	15,965	0	0	0	0	117,324
10044027 - San Francisco Bay Shoreline - Contribution	490	0	0	0	0	0	0	0	0	490
62044042-Shoreline, Early Implementation	359	0	0	0	0	0	0	0	0	359
26444001-EIA 11, Design & Partial Construction (E7)	17,516	0	0	0	0	0	0	0	0	17,516
26444002-EIAs 1-4 (E7)	7,406	2,707	1	1,066	5,624	5,849	6,083	0	0	28,735
26444004-EIAs 5-9 (E7)	2,090	1,045	685	1,135	838	3,403	3,539	3,680	0	15,730
<b>TOTAL</b>	<b>126,371</b>	<b>6,548</b>	<b>685</b>	<b>2,254</b>	<b>22,428</b>	<b>9,252</b>	<b>9,622</b>	<b>3,680</b>	<b>0</b>	<b>180,154</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	46,322
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)	2,011
SCVWD Safe, Clean Water and Natural Flood Protection Fund	61,982
California Department of Water Resources	420
SFBRA Measure AA (Grant)	61,079
SFBRA Measure AA (Ballot Reimbursement)	831
State of California	8,000
<b>Total</b>	<b>180,154</b>
Federal Partners, South Bay Salt Ponds (SBSP)	48,470
State, SBSP	14,720
Foundations, Packard-Hewlett-Goldman-Moore, SBSP	17,060
Coastal Conservancy, Shoreline	2,010
Federal, USACE, Shoreline	8,990
<b>Total Partnership Funding for In-kind Services</b>	<b>91,250</b>

**Project**  
**Program**  
**Project No.**

**Small Capital Improvements, Watersheds Asset Rehabilitation Program (WARP)**

Flood Protection - Multiple Watersheds

62084001

**Contact**

Bhavani Yerrapotu

byerrapotu@valleywater.org



View of damage caused by burrowing animals along West Branch of Llagas Creek in the Uvas/Llagas Watershed



Location Map

## PROJECT DESCRIPTION

This project provides resources for the restoration of small capital investments to preserve or extend the life of assets within watersheds. This will repair or rehabilitate various features within watersheds to ensure facilities are functioning as intended, ensuring design level of flood protection, removal of impediments to fish passage and geomorphic stability of creeks and waterways to minimize sediment loading and creek erosion. To streamline the implementation process, most of the projects are planned to be executed using Valley Water's current Stream Maintenance Program's approved regulatory permits.

The repair work consists of, but is not limited to:

- Creek erosion repair using rock riprap and steel piles
- Remediation of eroded earthen slopes using natural alternative treatments, where possible
- Levee rehabilitation impacted by animal intrusion and soil degradation
- Rehabilitation of fish passage facilities
- Geomorphic channel restoration with bed and bank repair
- Storm outfall restoration and repair
- Minor concrete repair to restore stream function of existing concrete channels
- Board-approved Emergency Repairs

## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

Several small projects go through the design and construction phases each year under the Stream Maintenance Program 2 permit.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	5,197											
Permits	8,698											
Design	22,190											
Construct	136,372											
Closeout	620											
	227,658											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
62084001-Small Capital Improvements, Watersheds Asset Rehabilitation Program (WARP)	57,004	13,124	18,570	15,800	8,100	8,100	8,100	98,860	227,658
with inflation	57,004	13,124	19,680	17,550	9,511	10,000	10,476	167,061	304,406

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
62084001-Small Capital Improvements, Watersheds Asset Rehabilitation Program (WARP)	57,014	13,115	0	19,680	17,550	9,511	10,000	10,476	167,061	304,406

Adjusted Budget includes adopted budget, plus a planned budget adjustment of \$4,732,000.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	304,406
City of Palo Alto (Matadero Creek)	442
<b>Total</b>	<b>304,406</b>

# **Water Resources Stewardship**

# Water Resources Stewardship Capital Improvements

## WATER RESOURCES STEWARDSHIP OVERVIEW

Valley Water plans, designs and constructs various capital projects to meet the Board's Ends Policy E-4, "Water resources stewardship protects and enhances ecosystem health." These projects may fulfill environmental enhancement, mitigation, or stewardship goals and priorities.

Valley Water has placed an emphasis on stewardship since 1999, when Valley Water's Board of Directors adopted a mission and policies that added a focus on environmental stewardship. In 2001, the California legislature added environmental stewardship to Valley Water's purpose. Specifically, Valley Water's environmental stewardship activities focus on these three areas:

- Healthy creek and bay ecosystems
- Clean, safe water in creeks and the bay
- Improved quality of life through trails, open space and water resources management

Valley Water's stewardship work is extensive. Actions to protect the environment are woven into all we do. Some of Valley Water's capital and non-capital stewardship outcomes and accomplishments since 2000 are listed below.

### Capital

- Installed 339 cubic yards of salmonid spawning gravels in the Upper Guadalupe River to improve habitat for steelhead.
- Improved fish passage to over 20 miles of designated critical habitat for steelhead in Uvas Creek and over 16 miles of critical habitat for steelhead in Coyote Creek.

### Non-Capital

- Recovered over 3 acres of Valley Water creek lands from illegal encroachment, per the Water Resources Protection Ordinance.
- Installed 979 cubic yards of salmonid spawning gravels and 22,206 sq ft of instream complexity structures to improve habitat for steelhead.
- Conducted two fish passage barrier remediation projects in the past 3 years which improved fish passage to over 20 miles of designated critical habitat for steelhead in Uvas Creek and over 16 miles of critical habitat for the steelhead in Coyote Creek.

- Managed nearly 3600 acres, with conservation partners, of upper watershed land in Santa Clara County that was acquired and preserved as a part of the Stream and Watershed Protection Program.
- Contributed \$4 million towards the acquisition of the approximately 3,653-acre Richmond Ranch property, which will be enrolled into the Santa Clara Valley Habitat Plan's Reserve System.
- Removed approximately 53,000 cubic yards of trash and debris from waterways from FY 2019-23.

## Environmental Enhancement & Stewardship Projects

The voters in Santa Clara County have supported Valley Water's environmental enhancement and stewardship efforts, including the creation or restoration of tidal or riparian habitat, by approving three special parcel taxes. In 2000, voters approved the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks). The Clean, Safe Creeks Plan was replaced by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water). In 2020, voters approved the renewal of the Safe, Clean Water Program, which replaced the 2012 Safe, Clean Water Program in entirety. Unlike the first two special parcel taxes, which were set to sunset in 15 years from the date of implementation, the renewed Safe, Clean Water Program will continue unless repealed by voters or if the Board determines the funding is no longer needed.

The renewed Safe, Clean Water Program - Fund 26, along with the Watershed and Stream Stewardship (1% ad valorem property tax) - Fund 12 and the Water Utility Enterprise - Fund 61, are the primary funding sources for environmental enhancement and stewardship projects.

For environmental enhancement and stewardship projects under the renewed Safe, Clean Water Program that have not yet been fully defined, the CIP Planning Process will be conducted to allocate the Safe, Clean Water Program funding to the enhancement opportunities that meet Program key performance indicators (KPIs).

Environmental enhancement projects are constructed at the direction of the Board either to meet the Safe, Clean Water Program obligations or to meet other Board priorities.

# Water Resources Stewardship Capital Improvements

Stewardship projects are implemented to promote water quality awareness; reduce pollutants in streams; support additional trails, parks and open space; support creek side recreation; and reduce greenhouse gases. Stewardship projects are implemented as required by the Safe, Clean Water Program or at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

## *Major Capital Improvements Identified in the CIP*

- Stevens Creek Fish Passage Enhancement
- Hale Creek Enhancement Pilot Study (D6.1)
- Watershed Habitat Enhancement Design & Construction
- Ogier Ponds Separation from Coyote Creek (D4.2)
- Bolsa Road Fish Passage Improvement (D6.2)
- Calabazas/San Tomas Aquino Creek-Marsh Connection (formerly named Salt Ponds A5-11 Restoration)
- Pond A4 Resilient Habitat Restoration Project
- Safe, Clean Water Program Fish Passage Improvements (D4.3)
- SCW Regnart Creek Rehabilitation (F8)
- Coyote 10B Freshwater Wetlands

## *Operations and Maintenance Costs*

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Periodically throughout the project, projections of this impact are updated to reflect changes in the project elements.

## **CIP PLANNING PROCESS AND FINANCIAL ANALYSIS**

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a CIP Draft Five-Year Plan in February.

The Board then authorizes release of the CIP Draft Five-Year Plan to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the CIP Final Five-Year Plan in May.

Projects under the Safe, Clean Water Program have funding allocations and if additional funds are required, the Board may direct that other available revenue be used to implement the proposed projects. Environmental enhancement and

stewardship projects not included in the Safe, Clean Water Program are implemented at the discretion of the Board. The inclusion of these projects in the CIP Final FY 2025-29 Five-Year Plan has been approved by the Board.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements determined that the funding needs for approved projects can be met:

- Watershed and Stream Stewardship Fund
- Safe, Clean Water Fund
- Water Utility Enterprise Fund

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Periodically throughout the project, projections of the operations and maintenance impacts are updated to reflect changes to the project.

## *Significant Project Updates from the Prior Year*

Updates to capital project plans are considered to be significant if total project costs (TPC) increase or decrease (inflated) more than \$1 million, project completion is extended beyond one year, or if there are any changes to project scope. Listed here are the changes to projects from the CIP Adopted FY 2024-28 Five-Year Plan:

- The FAHCE Fish Passage and Habitat Improvements Project is a placeholder project. The schedule has been updated to align with the overall FAHCE Implementation Project schedule and the Project's planned expenditures were moved to begin in FY27.
- The Ogier Ponds Project has been identified as a conservation measure for the Anderson Dam Seismic Retrofit Project (ADSRP) and design and construction is closely linked to the completion of ADSRP, currently expected in FY32. This sequencing is important because the ADSRP bypass/tunnel upstream of the Ogier Ponds will result in higher flows that could potentially necessitate a redesign of the project. Depending on the selected alternative for this Project, significant cost savings could be realized by accumulating and stockpiling earth fill materials over several years prior to construction. There is no TPC change, but future planned Construction phase expenditures of \$5 million will be moved into a new Safe, Clean Water placeholder project number for Ogier Ponds Construction to begin in FY31.
- The SCW D4.3 Fish Passage Improvements (Moffett)

# Water Resources Stewardship Capital Improvements

Project increased in cost by \$1.69 million due to updated expenditures to include all phases. Expenditures are preliminary estimates and will be further refined during the Planning Phase. The Project's schedule start was shifted from FY21 to FY24 to align with available staff resources.

## *New Capital Improvement Projects Included*

In FY 2024, two new Water Supply capital projects were approved by the Board for inclusion in the CIP Draft FY 2025-29 Five-Year Plan, the SCW Regnart Creek Rehabilitation (F8) Project and the Coyote 10B Freshwater Wetlands Project.

- The SCW Regnart Creek Rehabilitation (F8) Project will implement the renewed Safe, Clean Water objectives for the Sustainable Creek Infrastructure for Continued

Public Safety Project (F8). The Project will reduce the risk of bank failures that can impact adjacent properties and apply geomorphic principles to reduce the frequency of erosion recurrence. The estimated project cost is \$8.97 million and the project duration is expected to last 3 years.

- The Coyote 10B Freshwater Wetlands Project will meet mitigation requirements for the multi-year Stream Maintenance Program (SMP-3) from 2027-2037 in the Santa Clara Basin. The Project will create seven acres of freshwater wetland, one acre of upland habitat and one and half acres of channel with inclusion of fisheries habitat features. The estimated project cost is \$8.90 million and the project duration is expected to last 4 years.

# Water Resources Stewardship Capital Improvements

The following table is a project funding schedule for water resources stewardship capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2023-24

## Water Resources Stewardship Capital Improvements (\$K)

Project Number	Project Name	Through FY23	FY24*	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
<b>ENVIRONMENTAL ENHANCEMENT &amp; STEWARDSHIP</b>											
<b>Lower Peninsula Watershed</b>											
00294001s	Stevens Creek Fish Passage Enhancement	850	-	-	-	-	2,188	6,677	3,720	6,086	19,521
26164001	Hale Creek Enhancement Pilot Project (D6.1)	12,347	10	180	-	43	-	-	-	-	12,400
<b>Guadalupe Watershed</b>											
26044001	Almaden Lake Improvements (D4.1)	37,597	-	27,340	-	-	-	-	-	-	37,597
<b>Coyote Watershed</b>											
95C40400	Coyote Percolation Dam Fish Passage - Phase 2	-	-	-	-	-	1,886	1,962	2,040	14,071	19,959
26044003	Ogier Ponds Separation from Coyote Creek (D4.2)	2,762	1,230	-	1,059	32	34	35	694	486	6,332
26C44006	Ogier Ponds Construction	-	-	-	-	-	-	-	-	7,418	7,418
00C40401s	Ogier Ponds Construction	-	-	-	-	-	-	-	-	55,926	55,926
<b>Uvas/Llagas Watershed</b>											
26044004	Bolsa Road Fish Passage Improvement (D6.2)	6,375	2,661	-	27	27	84	-	-	-	9,174
<b>Multiple Watersheds</b>											
20444001s	Calabazas/San Tomas Aquino Creek-Marsh Connection	9,325	1,415	-	1,651	1,711	1,683	-	-	-	15,785
20444002	Pond A4 Resilient Habitat Restoration Project	-	4,725	-	967	-	-	-	-	-	5,692
26044002	SCW Fish Passage Improvements (D4.3)	5,524	-	169	-	-	-	-	-	-	5,524
26044005	SCW D4.3 Fish Passage Improvements	-	998	-	1,515	2,089	4,701	-	-	-	9,303
26044056	SCW Regnart Creek Rehabilitation Project (F8)	-	-	-	696	8,231	40	-	-	-	8,967
40214023	Coyote 10B Freshwater Wetlands	-	-	-	2,236	3,283	3,382	-	-	-	8,902
<b>ENVIRONMENTAL FEASIBILITY STUDIES</b>											
<b>ENVIRONMENTAL MITIGATION</b>											
	<b>TOTAL</b>	<b>74,780</b>	<b>11,039</b>	<b>27,689</b>	<b>8,151</b>	<b>15,416</b>	<b>13,998</b>	<b>8,674</b>	<b>6,454</b>	<b>83,987</b>	<b>222,499</b>

\*FY 2024 Adjusted Budget includes adopted budget plus budget adjustments

 FY 2023-24 Funds to be reappropriated

The following table shows funding requirements from each funding source for enhancement capital improvements.

## Water Resources Stewardship - Funding Sources (\$K)

Fund Number	Fund Name	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
61	Water Utility Enterprise Fund	765	-	-	-	-	3,414	4,824	2,079	42,034	53,116
12	Watershed Stream Stewardship Fund	9,102	6,140	-	4,854	4,994	5,725	3,815	3,681	34,049	72,361
26	Safe, Clean Water and Natural Flood Protection Fund	64,913	4,899	27,689	3,297	10,422	4,859	35	694	7,904	97,023
	<b>TOTAL</b>	<b>74,780</b>	<b>11,039</b>	<b>27,689</b>	<b>8,151</b>	<b>15,416</b>	<b>13,998</b>	<b>8,674</b>	<b>6,454</b>	<b>83,987</b>	<b>222,499</b>

 FY 2023-24 Funds to be reappropriated

# Environmental Enhancement & Stewardship

## Lower Peninsula Watershed



**Project**  
**Program**  
**Project No.**

## Stevens Creek Fish Passage Enhancements

Water Resources Stewardship - Lower Peninsula Watershed

00294001s

### Contact

John Bourgeois

jbourgeois@valleywater.org



Example of a fish ladder to be modified or reconstructed for improved fish passage



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Moffett Boulevard fish ladder to improve fish passage at Stevens Creek Dam to accomplish the following objectives:

- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles

This project is accounted for in the following:

- 00294001 – Fish Passage Planning - Completed
- 00C40145 – Moffett Boulevard Fish Ladder
- 00C40198 – Stevens Creek Dam Multi-port Outlet
- 62C40403 – FAHCE Stevens Creek Fish Passage Construction

## OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

**USEFUL LIFE:** 50 Years

## SCHEDULE & STATUS

July 2008 to June 2031

Planning phase is complete and project is currently on hold.

Refinement of phase schedule will be defined at the beginning of the design phase.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	850											
Permits	50											
Design	2,545											
Construct	11,873											
Closeout	58											
	15,376											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
with inflation	850	0	0	0	0	0	0	0	0	850
00C40145-FAHCE Fish Passage and Habitat Improvements	0	0	0	0	1,201	1,520	0	0	0	2,720
with inflation	0	0	0	0	1,351	1,909	0	0	0	3,260
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	308	1,013	35	0	0	1,356
with inflation	0	0	0	0	347	1,271	43	0	0	1,660
62C40403-FAHCE Stevens Creek Fish Passage Construction	0	0	0	0	436	2,818	2,819	4,377	10,449	
with inflation	0	0	0	0	490	3,497	3,677	6,086	13,751	
<b>TOTAL</b>	<b>850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,945</b>	<b>5,351</b>	<b>2,854</b>	<b>4,377</b>	<b>15,376</b>	
<b>with inflation</b>	<b>850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,188</b>	<b>6,677</b>	<b>3,720</b>	<b>6,086</b>	<b>19,522</b>	

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
00C40145-FAHCE Fish Passage and Habitat Improvements	0	0	0	0	0	1,351	1,909	0	0	3,260
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	0	347	1,271	43	0	1,660
62C40403-FAHCE Stevens Creek Fish Passage Construction	0	0	0	0	0	490	3,497	3,677	6,086	13,751
<b>TOTAL</b>	<b>850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,188</b>	<b>6,677</b>	<b>3,720</b>	<b>6,086</b>	<b>19,522</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	14,328
SCVWD Water Utility Enterprise Fund	5,193
<b>Total</b>	<b>19,522</b>

**Project**  
**Program**  
**Project No.**

## Hale Creek Enhancement Pilot Study (D6.1)

Water Resources Stewardship – Lower Peninsula Watershed

26164001

### Contact

Bhavani Yerrapotu

byerrapotu@valleywater.org



Reach to be modified downstream of 7th Day Adventist foot bridge between Marilyn Drive and North Sunshine Drive



Location Map

## PROJECT DESCRIPTION

This pilot project plans, designs, and constructs improvements to an approximately 650-foot long reach in Hale Creek to accomplish the following objectives:

- Provide flood protection and enhance habitat
- Restore stream recharge capability to a concrete-lined portion
- Remove existing concrete channel and replace with a vegetated soft-bottom channel, to improve and restore the natural functions of the stream

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project D6.1. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

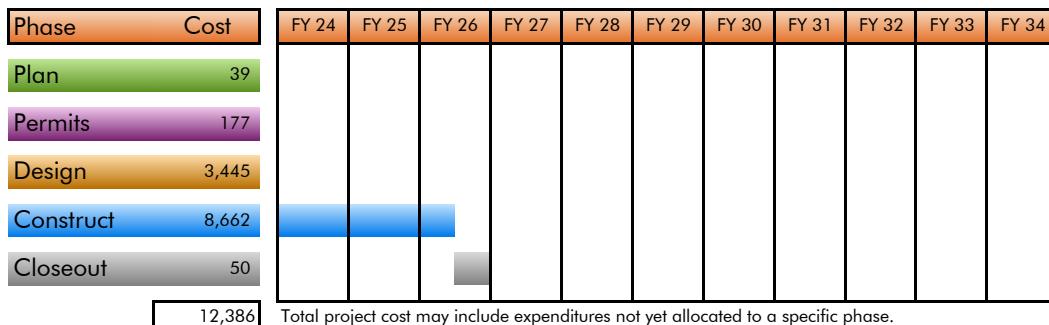
## OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined at the completion of the construction phase.

**USEFUL LIFE:** 50 years

## SCHEDULE & STATUS

July 2014 to June 2026



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures							Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	
26164001-Hale Creek Enhancement Pilot Study (D6.1)	11,674		502	100	110	0	0	0	12,386
with inflation	11,674		502	104	119	0	0	0	12,399

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
26164001-Hale Creek Enhancement Pilot Study (D6.1)	12,347	10	180	0	43	0	0	0	0	12,399

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	12,399
Other Funding Sources	0
<b>Total</b>	<b>12,399</b>

# Environmental Enhancement & Stewardship

## Guadalupe Watershed



**Project**

**Almaden Lake Improvements (D4.1)**

**Program**

Water Resources Stewardship – Guadalupe Watershed

**Project No.**

26044001

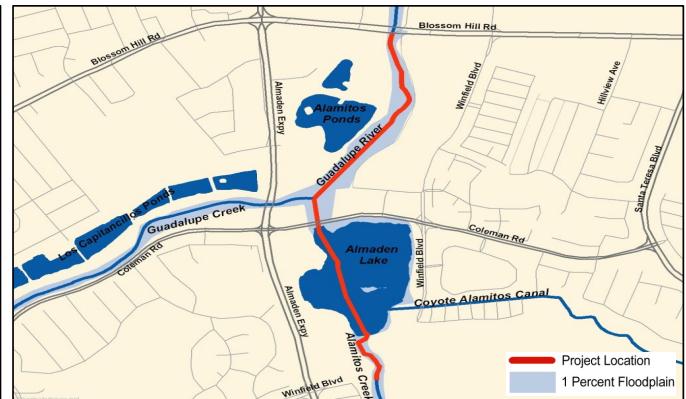
**Contact**

Bhavani Yerrapotu

byerrapotu@valleywater.org



A southern view of Almaden Lake, through which Alamitos Creek flows



Location Map

## PROJECT DESCRIPTION

The project funds planning and design to separate Alamitos Creek from Almaden Lake and restore Alamitos Creek's stream function within the footprint of Almaden Lake. The goals are to improve water quality and habitat for steelhead and other anadromous fish by separating the creek from the lake while incorporating the principle of geomorphic design and to create a self-sustaining channel that requires little maintenance to keep it viable for fisheries and wildlife benefits. Benefits of this project will be the creation of channel complexity in the restored stream channel such as instream riffle-pool habitat, cover for rearing fish, gravel to support spawning and plantings that will provide numerous ancillary wildlife benefits; reduction of high water temperatures released from Almaden Lake into Alamitos Creek; and removal of entrainment, predatory and methylmercury impacts to anadromous fish from Almaden Lake. The project design is scheduled to be completed in June 2024, after which the project will be closed. The project does not include construction per January 24, 2023, Board decision not to pursue construction following nearly tripling of construction cost estimates ([tinyurl.com/2023Jan24BoardMtg](http://tinyurl.com/2023Jan24BoardMtg)).

The objectives are as follows:

- Separate Alamitos Creek from Almaden Lake
- Reduce thermal impediment to migration of anadromous fish
- Remove entrainment and impacts from predatory species to anadromous fish
- Reduce mercury concentration in target fish to meet applicable water quality objectives
- Minimize impacts to recreational features

This project meets the commitments of the voter-approved Safe, Clean Water (SCW), Project D4.1 to complete planning and design for one creek/lake separation. The project will be completed in June 2024, following which the remaining project funding allocation will be released into the SCW Operation and Capital Reserves. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

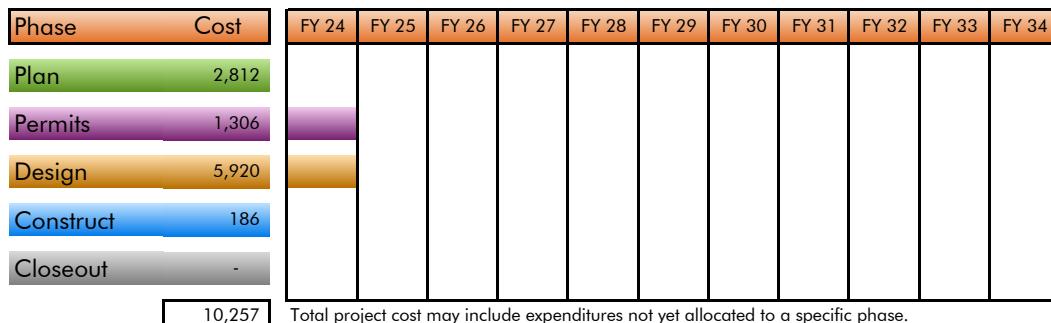
## OPERATING COST IMPACTS

No operating cost impacts are anticipated from this project, as it includes only the planning and design phases.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2011 to June 2024



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
26044001-Almaden Lake Improvements (D4.1)	8,659		1,598	0	0	0	0	0	0	10,257
with inflation	8,659		1,598	0	0	0	0	0	0	10,257

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
26044001-Almaden Lake Improvements (D4.1)	37,597	0	27,340	0	0	0	0	0	0	37,597

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$27,340,000.

Excess funding will be returned to reserves upon completion of the project.

## FUNDING SOURCES

(in thousands \$)

SCVWD Safe,Clean Water Fund	37,597
Other Funding Sources	0
<b>Total</b>	<b>37,597</b>

# Environmental Enhancement & Stewardship

## Coyote Watershed



Project  
Program  
Project No.

## Coyote Percolation Dam Fish Passage - Phase 2

Water Resources Stewardship - Coyote Watershed

95C40400

### Contact

Bhavani Yerrapotu [byerrapotu@valleywater.org](mailto:byerrapotu@valleywater.org)



Aerial view looking downstream of the Ogier Pond complex



Location Map

### PROJECT DESCRIPTION

This placeholder project provides for future construction of possible habitat enhancements that may occur at Coyote Percolation Pond Dam. Construction of fish passage enhancements at this facility meet California Department of Fish and Wildlife (CDFW) and National Marine Fisheries Service (NMFS) passage criteria that are a regulatory requirements per the Anderson Dam Seismic subprojects as issued by the Federal Energy Regulatory Commission (FERC).

This project accomplishes the following objective:

- Enhanced passage for adult salmonids migrating upstream to spawn in Coyote Creek
- Enhanced passage for juvenile salmonids (smolts) migrating downstream in Coyote Creek
- Enhanced passage for Pacific Lamprey
- Restore flows to historic Coyote Creek channel by repairing breach into Coyote 10B that occurred in 2017
- Reduce potential predation of salmonid smolts in Coyote 10B

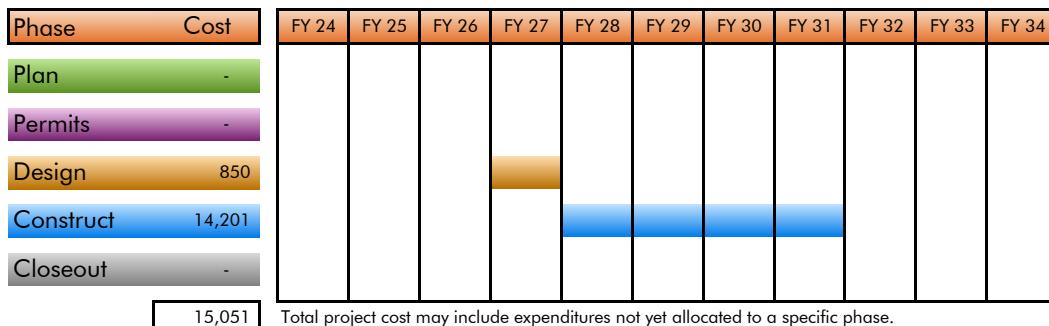
### OPERATING COST IMPACTS

Operating costs are anticipated and will be determined during the design phase.

**USEFUL LIFE:** 50 years

## SCHEDULE & STATUS

July 2026 to June 2031



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures							Total	
		FY23	FY24	FY25	FY26	FY27	FY28	FY29		
95C40400- Coyote Percolation Dam Fish Passage - Phase 2	0	0	0	0	0	1,677	1,677	1,677	10,020	15,051
with inflation	0	0	0	0	0	1,886	1,962	2,040	14,071	19,960
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,677</b>	<b>1,677</b>	<b>1,677</b>	<b>10,020</b>	<b>15,051</b>
with inflation	0	0	0	0	0	1,886	1,962	2,040	14,071	19,960

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total		
				FY23	FY24	FY25	FY26	FY27			
95C40400- Coyote Percolation Dam Fish Passage - Phase 2	0	0	0	0	0	0	1,886	1,962	2,040	14,071	19,960
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,886</b>	<b>1,962</b>	<b>2,040</b>	<b>14,071</b>	<b>19,960</b>

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	19,960
<b>Total</b>	<b>19,960</b>

**Project  
Program  
Project No.**

## SCW Ogier Ponds Separation from Coyote Creek (D4.2)

Water Resources Stewardship - Coyote Watershed

26044003 / 26C44006 / 00C40401s

**Contact**

John Bourgeois

jbourgeois@valleywater.org



Ogier Pond complex looking downstream towards San José with Coyote Creek entering in the lower left; bordered by Coyote Creek Trail on the right



Location Map

### PROJECT DESCRIPTION

This project plans, designs, and partially funds construction to separate Coyote Creek from Ogier Ponds.

The project includes the following objectives:

- Work with County Parks to remediate the priority fish passage impediment named in the Fish and Aquatic Habitat Collaborative Effort (FAHCE) Settlement Agreement
- Separate Coyote Creek from Ogier Pond complex
- Work with County Parks to preserve existing recreational facilities and improve future opportunities
- The Ogier Ponds Project has been identified as a potential mitigation project for the ADSRP. In turn, the ADSRP project plan includes an additional \$50 million for Ogier Ponds construction, which when combined with the planned expenditures shown here totals approximately \$120 million.

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project D4.2. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

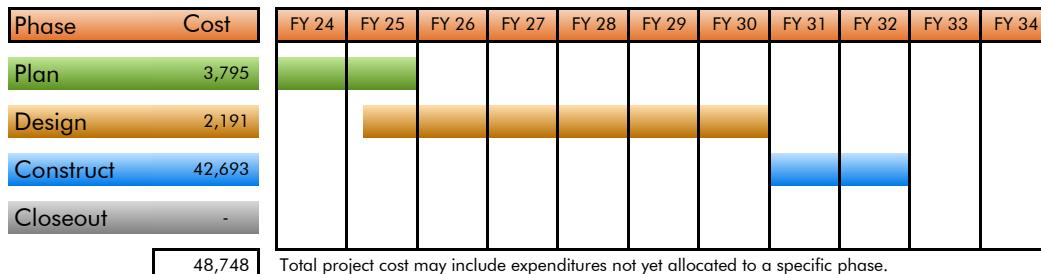
### OPERATING COST IMPACTS

Operating cost impacts will be determined at the completion of the design phase.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

March 2019 through June 2032



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
26044003-SCW Ogier Ponds Separation from Coyote Creek (D.2)	2,717	1,275	1,019	30	30	30	570	384	6,055	
with inflation	2,717	1,275	1,059	32	34	35	694	486	6,332	
26C44006-SCW Ogier Ponds Construction	0	0	0	0	0	0	0	0	5,000	5,000
with inflation	0	0	0	0	0	0	0	0	7,419	7,419
00C40401s-Ogier Ponds Construction	0	0	0	0	0	0	0	0	37,693	37,693
with inflation	0	0	0	0	0	0	0	0	55,926	55,926
<b>TOTAL</b>	<b>2,717</b>	<b>1,275</b>	<b>1,019</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>570</b>	<b>43,077</b>	<b>48,748</b>	
with inflation	2,717	1,275	1,059	32	34	35	694	63,830	69,677	

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
26044003-SCW Ogier Ponds Separation from Coyote Creek (D.2)	2,762	1,230	0	1,059	32	34	35	694	486	6,332
26C44006-SCW Ogier Ponds Construction	0	0	0	0	0	0	0	0	0	7,419
00C40401s-Ogier Ponds Construction	0	0	0	0	0	0	0	0	0	55,926
<b>TOTAL</b>	<b>2,762</b>	<b>1,230</b>	<b>0</b>	<b>1,059</b>	<b>32</b>	<b>34</b>	<b>35</b>	<b>694</b>	<b>63,830</b>	<b>69,677</b>

Adjusted Budget includes adopted budget plus approved budget adjustments

## FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	13,751
SCVWD Watershed Stream Stewardship Fund	27,963
SCVWD Water Utility Enterprise Fund	27,963
Other Funding Sources	0
<b>Total</b>	<b>69,677</b>

# Uvas/Llagas Watershed



## Legend

- ★ Major Capital Improvements
- Uvas/Llagas Watersheds
- Valley Water Watersheds
- Santa Clara County

Project  
Program  
Project No.

## Bolsa Road Fish Passage Improvements (D6.2)

Water Resources Stewardship - Uvas/Llagas Watershed

26044004

Contact

Bhavani Yerrapotu

byerrapotu@valleywater.org



Removal of the Bolsa Road fish barrier allows fish to travel upstream



Location Map

### PROJECT DESCRIPTION

This project removes a fish passage impediment at the Bolsa Road railroad bridge while incorporating geomorphic design features to restore bank stability and improve stream function.

The project will accomplish the following objectives:

- Remediation of the fish passage impediment will allow access to approximately 22 miles of higher quality upstream habitat in the Uvas Watershed, as well as unimpeded access for out-migrant fish through the project site
- A riffle pool system extending approximately 1,700 feet downstream of the Union Pacific Railroad (UPRR) bridge will include geomorphic design features to restore bank stability and improve stream function
- The project will also provide maintenance access for the geomorphic design features, restored banks, and vegetation of Uvas-Carnadero Creek downstream of the UPRR crossing

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project D6.2. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

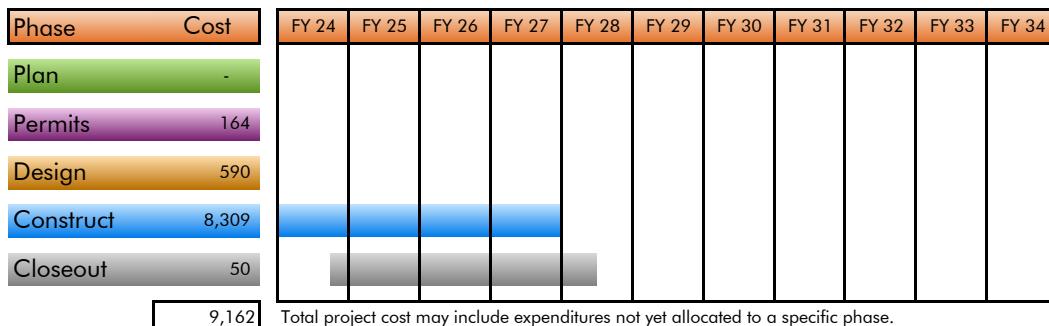
### OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$30,000 per year, beginning in FY28.

**USEFUL LIFE:** 50 Years

## SCHEDULE & STATUS

July 2021 to October 2027



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
26044004-Bolsa Road Fish Passage Improvements (D6.2)	3,014		6,022	25	25	75	0	0	0	9,162
with inflation	3,014		6,022	26	27	84	0	0	0	9,174

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
26044004-Bolsa Road Fish Passage Improvements (D6.2)	6,375	2,661	0	27	27	84	0	0	0	9,174

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	9,174
Other Funding Sources	0
<b>Total</b>	<b>9,174</b>

# Environmental Enhancement & Stewardship

## Multiple Watersheds



Project  
Program  
Project No.

## Calabazas/San Tomas Aquino Creek Marsh Connection

Water Resources Stewardship - Multiple Watersheds

20444001s

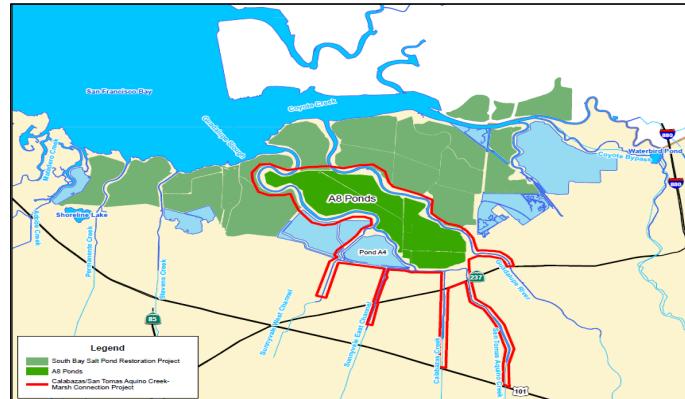
Contact

John Bourgeois

jbourgeois@valleywater.org



View of the former salt evaporation facilities near Alviso



Location Map

### PROJECT DESCRIPTION

This project plans and designs improvements to the South Bay Salt Ponds to accomplish the following objectives:

- Connect Calabazas and San Tomas Creeks directly to Pond A8
- Reduce creek maintenance of lower reaches of Calabazas and San Tomas Creeks
- Provide resilient flood protection against sea-level rise
- Improve recreational and public access opportunities
- Support South Bay Salt Pond Restoration efforts
- This project was formerly named Salt Ponds A5-11 Restoration

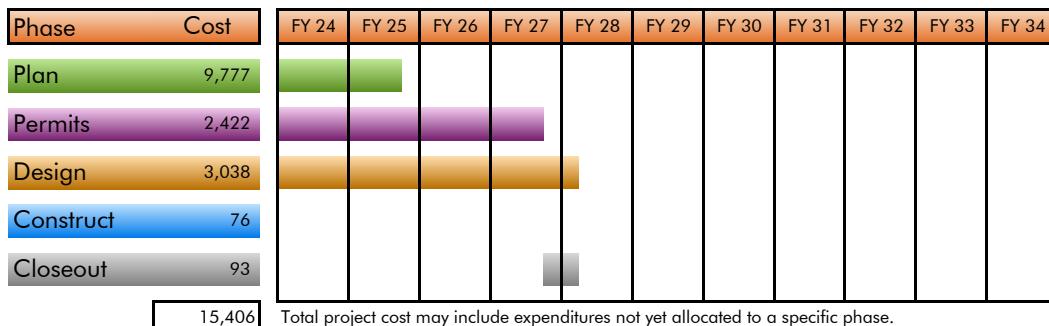
### OPERATING COST IMPACTS

Operating costs are anticipated and will be determined during the design phase.

**USEFUL LIFE:** 50+ Years

## SCHEDULE & STATUS

July 2021 to July 2027



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures							Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	
20444001-Calabazas/San Tomas Aquino Creek Marsh Connection	9,040		1,394	1,587	1,582	1,496	0	0	15,098
with inflation	9,040		1,394	1,650	1,711	1,683	0	0	15,477
26444003-South Salt Ponds Restoration	308		0	0	0	0	0	0	308
with inflation	308		0	0	0	0	0	0	308
<b>TOTAL</b>	<b>9,347</b>		<b>1,394</b>	<b>1,587</b>	<b>1,582</b>	<b>1,496</b>	<b>0</b>	<b>0</b>	<b>15,406</b>
<b>with inflation</b>	<b>9,347</b>		<b>1,394</b>	<b>1,650</b>	<b>1,711</b>	<b>1,683</b>	<b>0</b>	<b>0</b>	<b>15,785</b>

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests							Total
				FY23	FY24	FY25	FY26	FY27	FY28	FY29	
20444001-Calabazas/San Tomas Aquino Creek Marsh Connection	9,017	1,416	0	1,651	1,711	1,683	0	0	0	0	15,477
26444003-South Salt Ponds Restoration	308	0	0	0	0	0	0	0	0	0	308
<b>TOTAL</b>	<b>9,325</b>	<b>1,416</b>	<b>0</b>	<b>1,651</b>	<b>1,711</b>	<b>1,683</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,785</b>

Adjusted Budget includes adopted budget, plus a planned budget adjustment of \$21,000.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	11,607
SCVWD Safe, Clean Water Fund	308
SFBRA Measure AA	3,370
California Department of Fish and Wildlife	500
<b>Total</b>	<b>15,785</b>

Project  
Program  
Project No.

## Pond A4 Resilient Habitat Restoration Project

Water Resources Stewardship - Multiple Watersheds

20444002

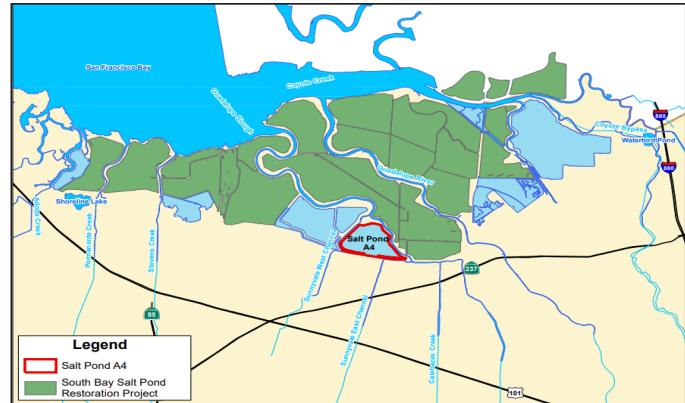
### Contact

John Bourgeois

jbourgeois@valleywater.org



Improve access from Caribbean Drive in Sunnyvale to Pond A4



Location Map

## PROJECT DESCRIPTION

The Pond A4 Resilient Habitat Restoration Project (Pond A4 Project) is a multi-benefit project that will create habitat for threatened and endangered species and promote community flood resilience by constructing a 30:1 sloped ecotone at the southern boundary of Pond A4, a former salt production pond acquired by Santa Clara Valley Water District (Valley Water) in 2000. The Pond A4 Project will beneficially re-use sediment removed from local creeks, as a part of the Valley Water's Stream Maintenance Program (SMP), to build necessary staging areas in order to construct the ecotone.

The Pond A4 Project will be constructed in two phases. This CIP project only includes Phase 1 (FY24-25). Phase 1 will include planning, design, and permitting for the full project; construction of the maintenance road necessary for access and staging areas; and adding initial sediment reuse deposits from local sources to Pond A4. Phase 2 (FY26-38) is currently unfunded; however, it will include sediment reuse to create the resilient habitat ecotone; and restoring nearly 50 acres of marsh, mud flat, transitional, and upland habitat. The ecotone habitat will buffer adjacent communities in Sunnyvale from storm surge and high tide wave action in the near term, and vegetated ecotone will keep pace with sea level rise thereby promoting resilient flood protection against sea level rise.

The Pond A4 Resilient Habitat Restoration Project's objectives are to:

- Continue beneficial re-use of sediment removed from local creeks by Valley Water's SMP at Pond A4
- Restore habitat for threatened and endangered tidal marsh species
- Provide adaptability to rising seas for these species
- Promote resilient coastal flood protection to Sunnyvale's low-lying shoreline area

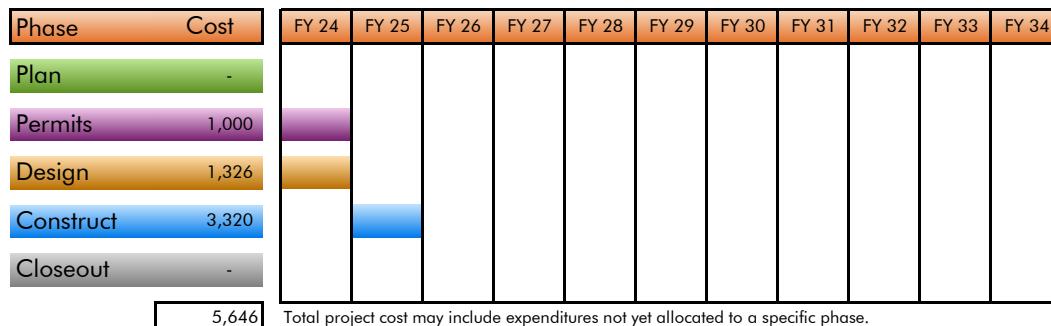
## OPERATING COST IMPACTS

Operating cost impacts will be determined at the completion of the design phase.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2023 to June 2025



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Expenditures						Total
			FY25	FY26	FY27	FY28	FY29	Future	
20444002-Pond A4 Resilient Habitat Restoration Project	0	4,725	921	0	0	0	0	0	5,646
with inflation	0	4,725	967	0	0	0	0	0	5,692

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	FY24	Planned Funding Requests						Total
			FY25	FY26	FY27	FY28	FY29	Future	
20444002-Pond A4 Resilient Habitat Restoration Project	0	4,725	0	967	0	0	0	0	5,692

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	5,692
Other Funding Sources	0
<b>Total</b>	<b>5,692</b>

**Project**  
**Program**  
**Project No.**

## SCW Fish Passage Improvements (D4.3)

Water Resources Stewardship - Multiple Watersheds

26044002

### Contact

John Bourgeois

[jb Bourgeois@valleywater.org](mailto:jb Bourgeois@valleywater.org)



Fish barrier across Coyote Creek at Singleton Road



Location Map

## PROJECT DESCRIPTION

This project plans, designs and constructs improvements for two high priority fish barriers in Santa Clara County. Valley Water has partnered with the City of San José to remove the fish passage barrier at the city-owned Singleton Road crossing on Coyote Creek near Capitol Expressway. The project will remove the barrier and restore a free-flowing condition for migratory fish in Coyote Creek. The Evelyn Bridge Road project was completed in November 2015, removing a migratory fish passage barrier that redirects high flow events leaving the channel dry under the bridge and downstream of the fish ladder which provided nearly 9 miles of creek habitat along Stevens Creek. The project also contributed funds for planning and design of the Bolsa Road Fish Passage Project. During the design phase, this project was removed because the geomorphic design features identified were determined to be better aligned with Project D6 under the Safe, Clean Water Program.

The project objectives are as follows:

- Planning, design and construction for a passage impediment at the Evelyn Bridge preventing upstream/downstream movement of steelhead in the Stevens Creek watershed; Remediation of this barrier will facilitate movement to 8.8 miles of higher quality upstream habitat and allow for out-migrant fish to access San Francisco Bay unimpeded (Completed in 2016)
- Execute a partnership agreement to provide technical support to the City of San José for removal of the Singleton Road low water crossing in Coyote Creek; Removal of the fish passage barrier will provide migratory fish access to approximately 18 miles of creek habitat upstream from the site and will allow for unimpeded access of out-migrant fish through the site; Interim project will install a temporary flatcar bridge to meet these objectives; City of San José will continue to seek funding for the permanent bridge solution

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project D4.3. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

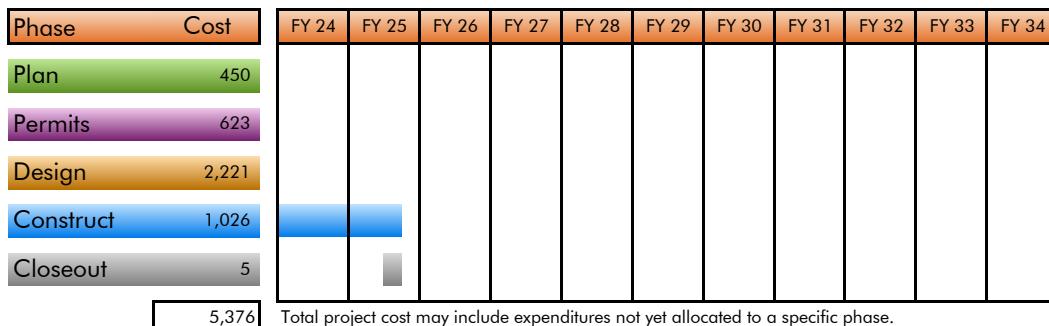
## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** 50 Years

## SCHEDULE & STATUS

July 2016 to March 2025



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Actuals Thru	Planned Expenditures							Total
			FY24	FY25	FY26	FY27	FY28	FY29	Future	
26044002-SCW Fish Passage Improvements (D4.3)	5,339		16	21	0	0	0	0	0	5,376
with inflation	5,339		16	22	0	0	0	0	0	5,377

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests							Total	
					FY24	FY25	FY26	FY27	FY28	FY29	Future		
26044002-SCW Fish Passage Improvements (D4.3)	5,524		0	169	0	0	0	0	0	0	0	0	5,524

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$147,000. Excess funding will be returned to reserves upon project completion.

## FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	5,524
Other Funding Sources	0
<b>Total</b>	<b>5,524</b>

Project  
Program  
Project No.

## SCW D4.3 Fish Passage Improvements (Moffett)

Water Resources Stewardship - Multiple Watersheds

26044005

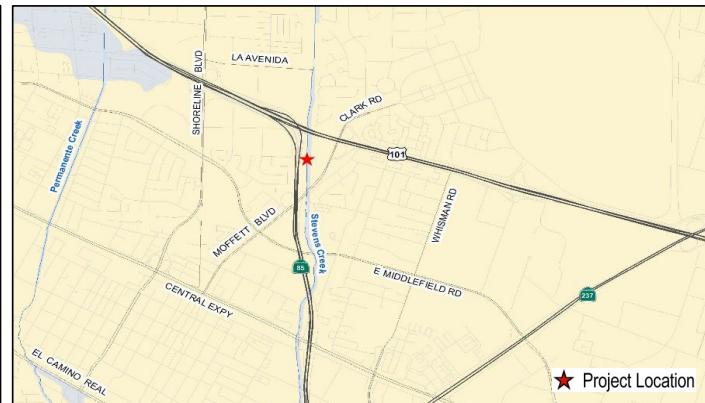
Contact

John Bourgeois

jbourgeois@valleywater.org



Restore populations of native fish species, such as steelhead trout by removing impediments to the passage of fish for spawning



Location Map

### PROJECT DESCRIPTION

The project(s) will implement the renewed Safe, Clean Water (SCW) objectives for Project D4.3 Fish Habitat and Passage Improvement projects that remove barriers to fish passage. The project objectives are as follows:

- Planning and Design for removal of a fish passage impediment at Moffett Fish Ladder on Stevens Creek
- Improve habitat and passage for steelhead and other native fish of Santa Clara County
- The Moffett fish ladder is classified as a priority barrier that is owned by Valley Water in the Fish and Aquatic Habitat Collaborative Effort

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project D4.3. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

### OPERATING COST IMPACTS

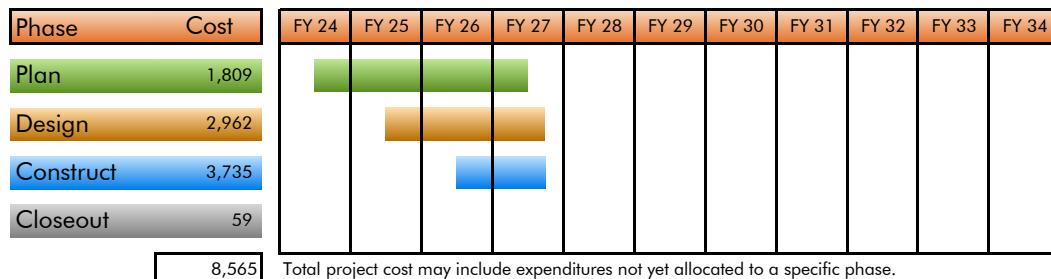
This project is not anticipated to increase or decrease annual operating costs, as the project is a planning and design effort.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2024 to February 2027

The project phase schedule will be defined during the planning phase.



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures							Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future	
26044005-SCW D4.3 Fish Passage Improvements (Moffett)	0	998	1,457	1,931	4,179	0	0	0	8,565
with inflation	0	998	1,515	2,089	4,701	0	0	0	9,302

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
					FY24	FY25	FY26	FY27	FY28	
26044005-SCW D4.3 Fish Passage Improvements (Moffett)	0	998	0	1,515	2,089	4,701	0	0	0	9,302

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	9,302
Other Funding Sources (Unsecured)	0
<b>Total</b>	<b>9,302</b>

<b>Project</b>	<b>SCW Regnart Creek Rehabilitation (F8)</b>
<b>Program</b>	Water Resources Stewardship - Multiple Watersheds
<b>Project No.</b>	26044056

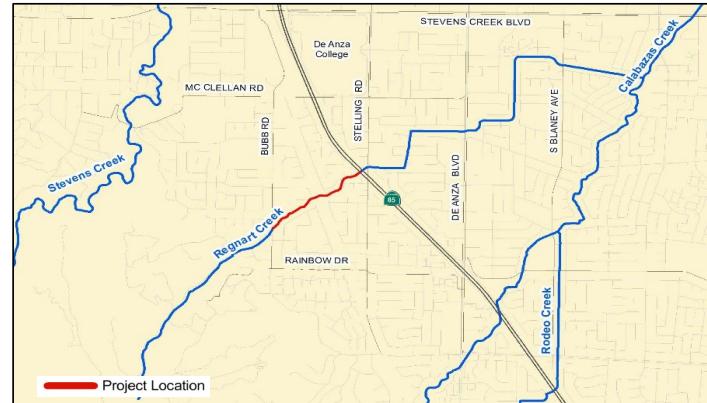
#### Contact

Bhavani Yerrapotu

byerrapotu@valleywater.org



Bed erosion downstream of Bubb Road



Location Map

## PROJECT DESCRIPTION

This project will implement the renewed Safe, Clean Water (SCW) objectives for Project F8: Sustainable Creek Infrastructure for Continued Public Safety. Various evaluations provided by the Watersheds Operations and Maintenance (O&M) Engineering Support and Asset Management units highlighted high risk of erosion-related failures in Regnart Creek from Bubb Road to Festival Drive. Subsequently, Valley Water completed the Regnart Creek Rehabilitation Design Study to develop a holistic and sustainable design addressing the root causes of erosion and channel incision. Winter storms in 2023 exacerbated conditions, leading to an emergency repair (completed in September 2023) project that, while effective, was limited in scope.

Regnart Creek is a waterway flowing from the Santa Cruz Mountains through residential areas in the City of Cupertino to Calabazas Creek near Miller Avenue. The proposed rehabilitation project will address the erosion along the banks and bed in this natural section of Regnart Creek.

To provide a long-term solution, the project objectives are as follows:

- Repair the severely incised banks and bed within this reach to stable condition
- Apply geomorphic principles within the design repair to establish an channel equilibrium reduce future erosion from occurring, operations and maintenance costs, and overall risk to Valley Water and adjacent property owners

This project meets the commitments of the voter-approved Safe, Clean Water Program (SCW), Project F8. For a full description of the SCW benefits and KPIs, please visit [www.valleywater.org](http://www.valleywater.org).

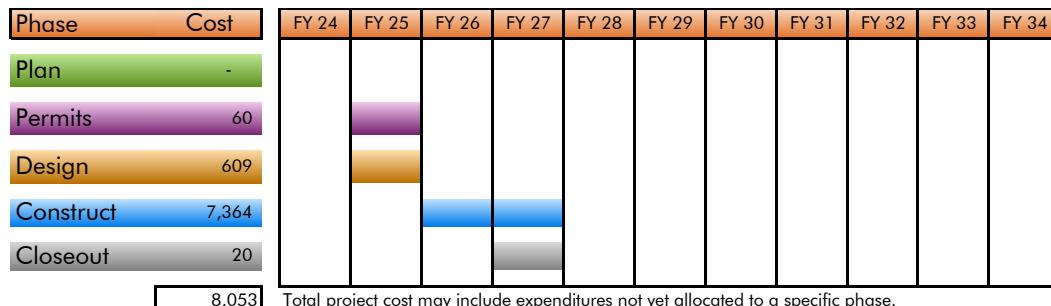
## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter existing facilities or modes of operation.

**USEFUL LIFE:** 50+ years

## SCHEDULE & STATUS

July 2024 to June 2027



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
26044056-SCW Regnart Creek Rehabilitation (F8)	0	0	669	7,348	36	0	0	0	8,053	
with inflation	0	0	696	8,231	40	0	0	0	8,967	

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total	
					FY24	FY25	FY26	FY27	FY28	FY29		
26044056-SCW Regnart Creek Rehabilitation (F8)	0	0	0	696	8,231	40	0	0	0	0	8,967	

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Safe, Clean Water Fund	8,967
<b>Total</b>	<b>8,967</b>

Project

**Coyote 10B Freshwater Wetlands**

Program

Water Resources Stewardship - Multiple Watersheds

Project No.

40214023

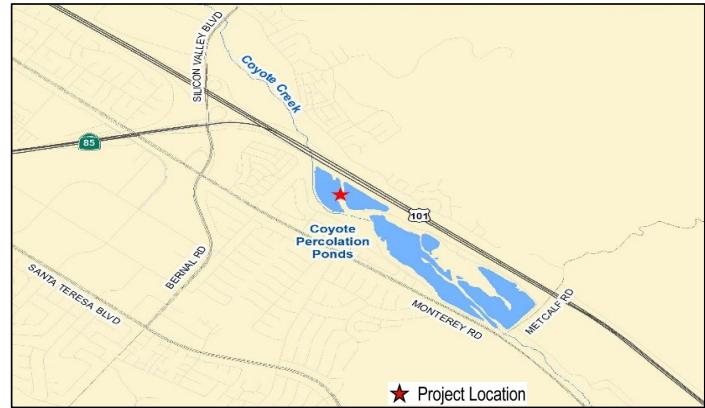
Contact

Bhavani Yerrapotu

byerrapotu@valleywater.org



View of the abandoned quarry pond and levee erosion



Location Map

## PROJECT DESCRIPTION

This project plans, designs, and implements improvements to accomplish the following objectives:

- Meet the District's mitigation requirements for the Multi-Year Stream Maintenance Program (SMP) in the Santa Clara Basin
- Creation of 7 acres of freshwater wetland for mitigation credit of impacts associated with Stream Maintenance Program 3 (SMP3)
- Creation of 1 acre of upland habitat for mitigation credit of impacts associated with SMP3
- Creation of 1.5 acres (1,430 linear feet) of channel with inclusion of fisheries habitat features for mitigation credit of impacts associated with SMP3
- Identify possible enhancement opportunities for presentation to the Board of Directors

## OPERATING COST IMPACTS

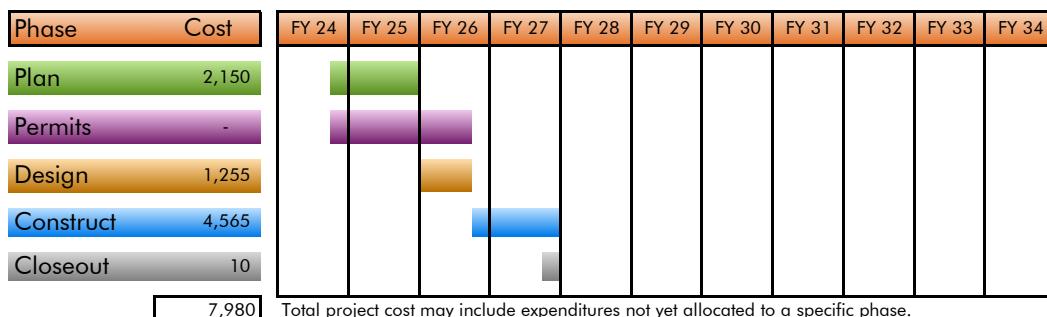
Operating cost impacts will be determined at the completion of the design phase.

## USEFUL LIFE

Not Available

## SCHEDULE & STATUS

July 2024 to June 2027



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24		FY25	FY26	FY27	FY28	FY29	
40214023-Coyote 10B Freshwater Wetlands	0			0	2,150	2,970	2,860	0	0	7,980
with inflation	0			0	2,236	3,283	3,382	0	0	8,902

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests								Total
				FY23	FY24		FY25	FY26	FY27	FY28	FY29	
40214023-Coyote 10B Freshwater Wetlands	0	0	0	2,236	3,283	3,382	0	0	0	0	0	8,902

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Fund	8,902
Other Funding Sources	0
<b>Total</b>	<b>8,902</b>

# **Buildings & Grounds**

# Buildings & Grounds Capital Improvements

## BUILDINGS & GROUNDS OVERVIEW

Valley Water's Almaden-Winfield campus occupies nearly 50 acres along Almaden Expressway in the City of San José. Valley Water manages the campus to ensure a healthful and safe work environment for employees and visitors. The campus includes 10 buildings, multiple parking lots, a corporation yard, landscaping, and other appurtenances.

With most of the buildings on campus over 30 years old, the rehabilitation needs have steadily increased in recent years. Valley Water administers an asset management program for its buildings and grounds infrastructure that includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

### *Major Capital Improvements Identified in the CIP*

- Small Capital Improvements, Facility Management
- Security Upgrades and Enhancements
- Headquarters Operations Building

### *Operations and Maintenance Costs*

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Throughout the various phases of a capital project, projections of this impact are regularly considered and updated as needed to reflect changes in project elements.

## CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a CIP Draft Five-Year Plan in February. The Board then authorizes release of the CIP Draft Five-Year Plan to the public and local

municipalities for review, conducts a public hearing, and approves the resolution to adopt the CIP Final Five-Year Plan in May.

Financial analysis of the following funding sources for buildings and grounds capital improvements was conducted to determine if there are limitations to funding all the proposed capital projects:

- General Fund
- Watershed and Stream Stewardship Fund
- Water Utility Enterprise Fund

The CIP Planning Process concluded that the Small Capital Improvements, Facility Management funding totals approximately \$4 million per year to meet Buildings and Grounds needs.

### *Significant Project Updates from the Prior Year*

Updates to capital project plans are considered to be significant if total project costs (TPC) increase or decrease (inflated) more than \$1 million, project completion is extended beyond one year, or if there are any changes to project scope.

### *Capital Improvement Project Updates*

- The Headquarters Operations Building Project decreased in cost by \$1.353 million as a result of the project schedule being advanced by one year due to advancements in contract efforts, from FY 2026 to FY 2025. There is no change to the Total Project Cost (TPC), only reallocation of construction costs from future years into FY 2025.

### *Small Capital Improvement Project Updates*

To align with our small capital project naming/forecasting standards, the following project name has been updated to include reference to "small capital improvements."

- Small Capital Improvements, Facility Management

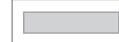
# Buildings & Grounds Capital Improvements

The following table is a project funding schedule for buildings and grounds capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2023-24.

## Buildings and Grounds Capital Improvements (\$K)

Project Number	Project Name	Through FY23	FY24*	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
60204016	Small Capital Improvements, Facility Management	n/a	4,000	-	4,006	4,000	4,000	4,000	4,000	40,000	64,006
60204022	Security Upgrades and Enhancements	314	314	-	315	331	7,116	8,495	-	-	16,885
60204032	Headquarters Operations Building	4,100	0	1,395	1,485	6,228	1,120	1,135	958	32	15,058
	<b>TOTAL</b>	<b>4,414</b>	<b>4,314</b>	<b>1,395</b>	<b>5,806</b>	<b>10,559</b>	<b>12,236</b>	<b>13,630</b>	<b>4,958</b>	<b>40,032</b>	<b>95,949</b>

\*FY 2024 Adjusted Budget includes adopted budget plus budget adjustments

 FY 2023-24 Funds to be reappropriated

The following table shows funding requirements from each funding source for buildings and grounds capital improvements.

## Buildings and Grounds - Funding Sources (\$K)

Fund Number	Fund Name	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total	
11	General Fund		4,414	4,314	1,395	5,806	10,559	12,236	13,630	4,958	40,032	95,949
	<b>TOTAL</b>	<b>4,414</b>	<b>4,314</b>	<b>1,395</b>	<b>5,806</b>	<b>10,559</b>	<b>12,236</b>	<b>13,630</b>	<b>4,958</b>	<b>40,032</b>	<b>95,949</b>	

 FY 2023-24 Funds to be reappropriated

Project  
Program  
Project No.

## Small Capital Improvements, Facility Management

Buildings & Grounds

60204016

Contact

Tony Ndah

tndah@valleywater.org



Front view of Headquarters building at the Almaden Campus



Location Map

### PROJECT DESCRIPTION

This project reserves funding for capital maintenance and replacement of buildings and grounds on all Valley Water facilities to provide a healthy and safe environment for staff and visitors.

### OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

Improvements will be managed on an as-needed basis throughout the year.

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	n/a											
Design	n/a											
Construct	n/a											
Closeout	n/a											
		n/a										

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
60204016-Small Capital Improvements, Facility Management	n/a	4,000	4,006	4,000	4,000	4,000	4,000	40,000		64,006
with inflation	n/a	4,000	4,006	4,000	4,000	4,000	4,000	40,000		64,006

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	FY24	Est. Unspent	Planned Funding Requests						Total
				FY25	FY26	FY27	FY28	FY29	Future	
60204016-Small Capital Improvements, Facility Management	n/a	4,000	0	4,006	4,000	4,000	4,000	4,000	40,000	64,006

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

## FUNDING SOURCES

(in thousands \$)

SCVWD General Fund		64,006
Other Funding Source		0
	<b>Total</b>	<b>64,006</b>

Project  
Program  
Project No.

## Security Upgrades and Enhancements Project

Buildings & Grounds  
60204022

Contact

Tony Ndah

tndah@valleywater.org



Security upgrades and enhancements at Valley Water facilities



No map is provided for this project

Location Map

### PROJECT DESCRIPTION

This project will significantly enhance overall security at Valley Water facilities by designing and installing a modern technical security system capable of meeting today's security and investigative requirements in order to counter the security threats of theft, trespass, and vandalism so that Valley Water can continue to meet its mission of providing Silicon Valley safe, clean water for a healthy life, environment, and economy.

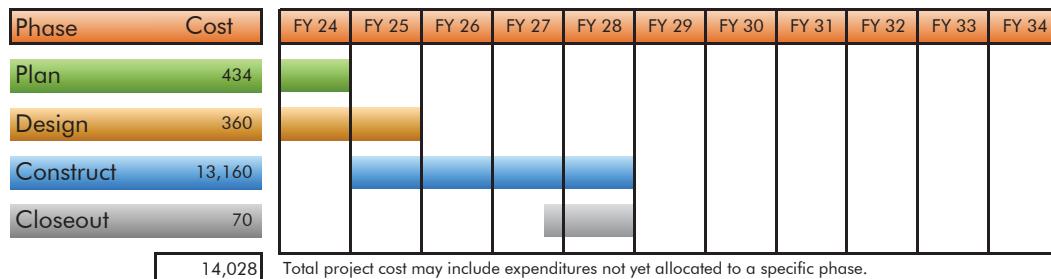
### OPERATING COST IMPACTS

Operating costs will be determined at the completion of the design phase.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2022 to June 2028



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
60204022-Security Upgrades and Enhancements Project	17		611	300	300	6,000	6,800	0	0	14,028
with inflation	17		611	315	331	7,116	8,495	0	0	16,885

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
60204022-Security Upgrades and Enhancements Project	314	314	0	315	331	7,116	8,495	0	0	16,885

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD General Fund	16,885
Other Funding Sources	0
<b>Total</b>	<b>16,885</b>

Project  
Program  
Project No.

## Headquarters Operations Building

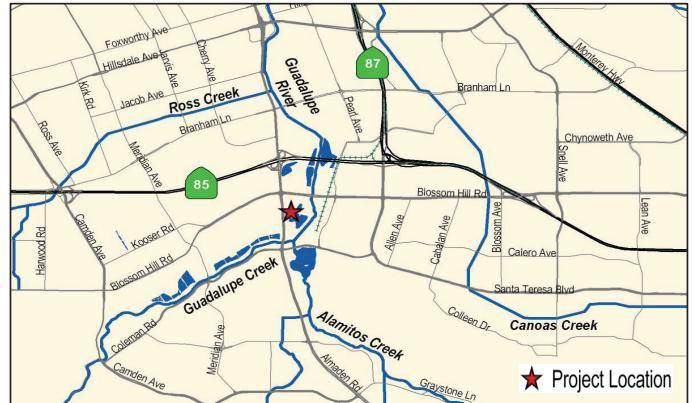
Buildings & Grounds  
60204032

### Contact

Tony Ndah  
tn dah@valleywater.org



Existing Maintenance Building



Location Map

## PROJECT DESCRIPTION

This project is a placeholder to plan, design, and construct future facilities or improve existing facilities.

This project accomplishes the following objectives:

- Replace office space in the Maintenance Office Building to provide a safe and healthy work environment
- Provide adequate and sufficient space to enable Valley Water staff to efficiently perform its core business

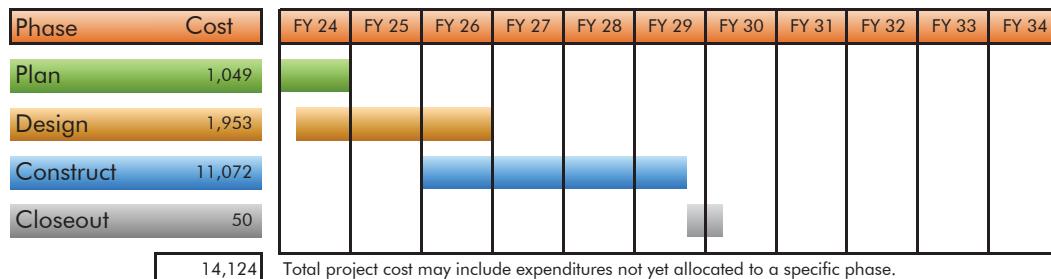
## OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2014 to August 2029



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
60204032-Headquarters Operations Building	367		2,338	2,700	5,800	1,025	1,021	848	25	14,124
with inflation	367		2,338	2,880	6,228	1,120	1,135	958	32	15,057

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total	
				FY23	FY24	FY25	FY26	FY27	FY28		
60204032-Headquarters Operations Building		4,100	0	1,395	1,485	6,228	1,120	1,135	958	32	15,057

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD General Fund		15,057
Other Funding Sources		0
	Total	15,057

# Information Technology

# Information Technology Capital Improvements

## INFORMATION TECHNOLOGY OVERVIEW

Valley Water relies on its software systems and technology infrastructure to help manage its core responsibilities of water supply, flood protection, and environmental stewardship. Recognizing the importance of Information Technology to its success, Valley Water regularly reviews its 5-year strategic plan to focus on the changing workforce, innovation, data and internal efficiencies.

In 2014, the Information Technology Capital Fund was created. It accounts for the costs to acquire, and install capital information technology projects with Valley Water-wide benefit. Projects include acquisition and replacement of computers, networks, and communications systems as well as major investments in enterprise software systems and cybersecurity.

Costs are billed to user departments as Intra-District Computer Equipment Charges. Billing rates will be set to smooth charges over time by recovering current costs and accumulating reserves for major planned future projects. Current year charges or a combination of current year charges and reserves may be used to fund authorized projects. The purpose of this fund is to provide adequate resources while avoiding peaks and valleys in charges to user departments.

### *Major Capital Improvements Identified in the CIP*

- Data Consolidation
- Information Technology Disaster Recovery
- ERP System Implementation
- Small Capital Improvements, Software Upgrades & Enhancements
- Small Capital Improvements, Water Utility (WU) Network Modernization

### *Operations and Maintenance Costs*

It is understood that new capital projects have an impact on future operations and maintenance, and this is included in the financial analysis. Throughout the various phases of a capital project, projections of this impact are regularly considered and updated as needed to reflect changes in project elements.

## CIP PLANNING PROCESS AND FINANCIAL ANALYSIS

The annual CIP Planning Process starts with collecting information on proposed new capital projects in July, followed by the validation of proposed new projects, preliminary scoping, review and financial analyses to produce a CIP Draft Five-Year Plan in February.

The Board then authorizes release of the CIP Draft Five-Year Plan to the public and local municipalities for review, conducts a public hearing, and approves the resolution to adopt the CIP Final Five-Year Plan in May.

Financial analysis of the Information Technology Capital Fund was conducted to determine if there are limitations to funding the planned capital projects.

Through the CIP Planning Process and financial analysis, it was determined that funding needs for approved Information Technology projects can be met.

### *Significant Project Updates from the Prior Year*

Updates to capital project plans are considered to be significant if total project costs (TPC) increase or decrease (inflated) more than \$1 million, project completion is extended beyond one year, or if there are any changes to project scope.

### *Small Capital Improvement Project Updates*

The following projects are ongoing, and have been identified as small capital improvement projects. To align with our small capital project naming and forecasting standards, these project names have been updated to include reference to "small capital improvements" and planned expenditures have been updated to extend through the full 15-year capital forecast period.

- Small Capital Improvements, Software Upgrades and Enhancements Project increased in cost by \$6.46 million and the overall schedule is extended by 7 years.
- Small Capital Improvements, WU Network Modernization Project increased in cost by \$10.89 million and the overall schedule is extended by 7 years.

# Information Technology Capital Improvements

The following table is a project funding schedule for information technology capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2023-24.

**Information Technology Capital Improvements (\$K)**

Project Number	Project Name	Through FY23	FY24*	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
73274009	Data Consolidation	1,232	17	-	36	-	-	-	-	-	1,285
73274001	IT Disaster Recovery	2,602	44	-	-	-	-	-	-	-	2,646
73274002	ERP System Implementation	17,566	-	123	-	-	-	-	-	-	17,566
73274008	Small Capital Improvements, Software Upgrades & Enhancements	5,634	1,322	-	642	677	715	754	792	10,337	20,873
95274003	Small Capital Improvements WU Computer Network Modernization	4,270	-	7	2,021	2,448	7	550	426	14,187	23,909
<b>TOTAL</b>		<b>31,304</b>	<b>1,383</b>	<b>130</b>	<b>2,699</b>	<b>3,125</b>	<b>722</b>	<b>1,304</b>	<b>1,218</b>	<b>24,524</b>	<b>66,279</b>

\*FY 2024 Adjusted Budget includes adopted budget plus budget adjustments

 FY 2023-24 Funds to be reappropriated

The following table shows funding requirements from each funding source for information technology capital improvements.

**Information Technology - Funding Sources (\$K)**

Fund Number	Fund Name	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	Total
61	Water Utility Enterprise Fund	4,270	-	7	2,021	2,448	7	550	426	14,187	23,909
73	Information Technology Fund	27,034	1,383	123	678	677	715	754	792	10,337	42,370
<b>TOTAL</b>		<b>31,304</b>	<b>1,383</b>	<b>130</b>	<b>2,699</b>	<b>3,125</b>	<b>722</b>	<b>1,304</b>	<b>1,218</b>	<b>24,524</b>	<b>66,279</b>

 FY 2023-24 Funds to be reappropriated

Project

**Data Consolidation**

Program

Information Technology

Project No.

73274009

Contact

Cecil Lawson

clawson@valleywater.org



Data consolidation will reduce Valley Water's data footprint



No map is provided for this project

Location Map

## PROJECT DESCRIPTION

- Provide and gain rapid insights using data analytics to solve complex business problems
- Reduce the overall data footprint

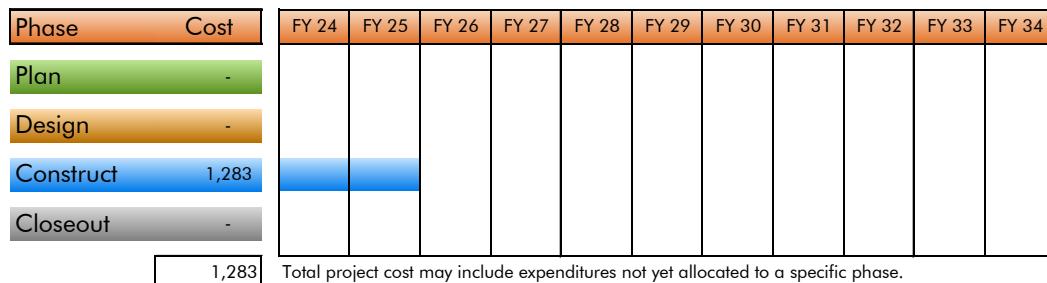
## OPERATING COST IMPACTS

The completion of this project will include a maintenance agreement which is anticipated to increase operating costs by approximately \$100,000 per year, beginning in FY26.

USEFUL LIFE: 3-5 Years

## SCHEDULE & STATUS

July 2015 to June 2025



Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24		FY25	FY26	FY27	FY28	FY29	
73274009-Data Consolidation	521		728	34	0	0	0	0	0	1,283
with inflation	521		728	36	0	0	0	0	0	1,285

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24		FY25	FY26	FY27	
73274009-Data Consolidation	1,232	17	0	36	0	0	0	0	0	1,285

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Information Technology Fund	1,285
Other Funding Sources	0
<b>Total</b>	<b>1,285</b>

**Project  
Program  
Project No.**

**Information Technology Disaster Recovery**

Information Technology

73274001

**Contact**

Cecil Lawson

clawson@valleywater.org



Existing Data Center housing critical servers supporting Valley Water's normal operations



No map is provided for this project

Location Map

## PROJECT DESCRIPTION

This project plans, designs, and implements improvements to Information Technology to accomplish the following objectives:

- ◆ Enable coordinated, rapid recovery from a disaster
- ◆ Reduce Valley Water's business risk exposure

This project is anticipated to be completed and closed by June 30, 2024.

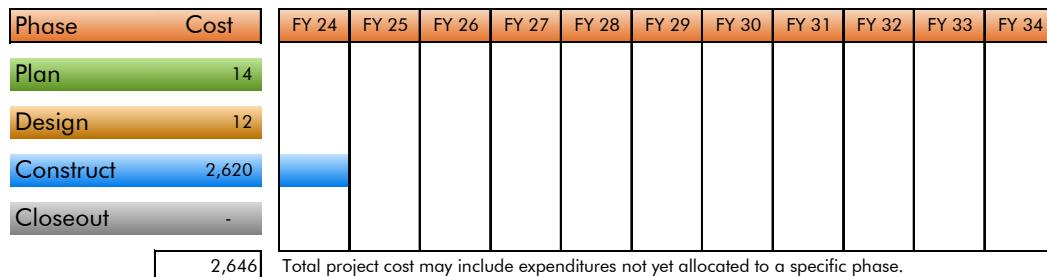
## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2014 to June 2024



## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
73274001-Information Technology Disaster Recovery	2,567		79	0	0	0	0	0	0	2,646
with inflation	2,567		79	0	0	0	0	0	0	2,646

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
				FY23	FY24	FY25	FY26	FY27	
73274001-Information Technology Disaster Recovery	2,602	44	0	0	0	0	0	0	2,646

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

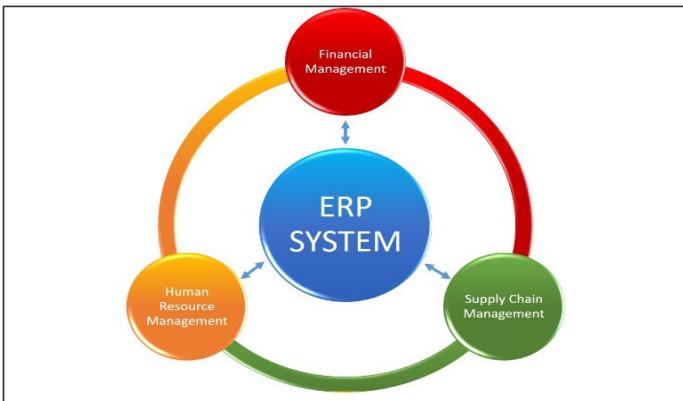
SCVWD Information Technology Fund	2,646
Other Funding Sources	0
<b>Total</b>	<b>2,646</b>

Project  
Program  
Project No.

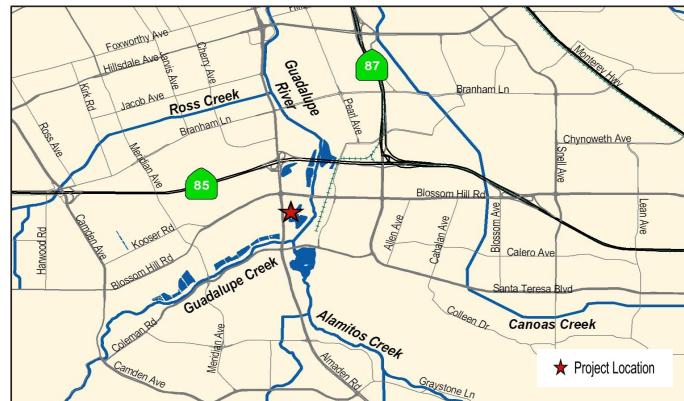
ERP System Implementation  
Information Technology  
73274002

Contact

Cecil Lawson [clawson@valleywater.org](mailto:clawson@valleywater.org)



New ERP system aiming to increase operational efficiency



Location Map

## PROJECT DESCRIPTION

This project selects and implements a new cloud-based, integrated, proven and state-of-the-art Enterprise Resource Planning (ERP) system to replace the current out-of-date ERP application. Below are the objectives:

- Provide up-to-date functionalities for Finance, HR, Payroll, Contracts, Procurement, Inventory, and Warehouse areas, and to reengineer business processes to ensure that Valley Water takes full advantage of the software's inherent capabilities
- Increase operational effectiveness, reduce costs and improve management decision-making processes by increasing the ability to access and analyze data
- Leverage a cloud platform to improve the availability of Financials, Supply Chain, Human Resources, and Payroll data
- Minimize customizations and adopt best standard business practices during implementation

This project remains open for ongoing integration support and payments under existing consultant agreements.

## OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately \$300,000 per year, beginning in FY24.

USEFUL LIFE: 5 Years

## SCHEDULE & STATUS

July 2013 to March 2023

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	1,438											
Design	-											
Construct	17,204											
Closeout	-											
	17,443											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	FY23	Planned Expenditures								Total
		FY24	FY25	FY26	FY27	FY28	FY29	Future		
73274002-ERP System Implementation	17,443	0	0	0	0	0	0	0	0	17,443
with inflation	17,443	0	0	0	0	0	0	0	0	17,443
<b>TOTAL</b>	<b>17,443</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,443</b>
with inflation	17,443	0	0	0	0	0	0	0	0	17,443

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	FY23	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
					FY24	FY25	FY26	FY27	FY28	
73274002-ERP System Implementation	17,566	0	123	0	0	0	0	0	0	17,566
<b>TOTAL</b>	<b>18,765</b>	<b>0</b>	<b>123</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,566</b>

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$123,000.

Excess funding will be returned to reserves upon project completion.

## FUNDING SOURCES

(in thousands \$)

SCVWD Information Technology Fund	17,566
<b>Total</b>	<b>17,566</b>

<b>Project</b>	<b>Small Capital Improvements, Software Upgrades &amp; Enhancements</b>
<b>Program</b>	Information Technology
<b>Project No.</b>	73274008

**Contact** Cecil Lawson [clawson@valleywater.org](mailto:clawson@valleywater.org)



Upgrade and enhancement of existing systems



No map is provided for this project

Location Map

## PROJECT DESCRIPTION

This project provides upgrade and enhancement services to existing Valley Water systems, including the enterprise resource planning system, geographic information system, enterprise asset management software Maximo, the Oracle database management system, internal and external Valley Water websites, and related databases. Previously, software upgrades were budgeted to their individual respective maintenance and support projects. This new project aims to consolidate activities into a single project for better organization, planning and budgeting purposes.

The objective of this project is to regularly upgrade existing software packages to:

- Stay in compliance and reduce risks associated with being on a version that is no longer supported
- Leverage new functionalities of up-to-date software

## OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2015 to June 2039

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	325											
Design	221											
Construct	11,078											
Closeout	-											
	15,956											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
73274008-Small Capital Improvements, Software Upgrades & Enhancements	4,976		1,980	600	600	600	600	600	6,000	15,956
with inflation	4,976		1,980	642	677	715	754	792	10,337	20,872

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
73274008-Small Capital Improvements, Software Upgrades & Enhancements	5,634	1,322	0	642	677	715	754	792	10,337	20,872

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Information Technology Fund		20,872
Other Funding Sources		0
	<b>Total</b>	<b>20,872</b>

Project  
Program  
Project No.

## Small Capital Improvements, Water Utility Network Modernization

Information Technology  
95274003

Contact

Cecil Lawson

clawson@valleywater.org



Replace and upgrade existing network structures



Location Map

### PROJECT DESCRIPTION

This project plans, designs, and implements upgrades to the existing network to ensure that Valley Water has a current and robust computer network to accomplish the following objectives:

- Deliver greater access speeds
- Restore vendor maintenance
- Improve software application performance
- Provide a path to meet future data communications needs

### OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

**USEFUL LIFE:** Not Available

## SCHEDULE & STATUS

July 2014 to June 2039

Phase	Cost	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34
Plan	-											
Design	-											
Construct	18,403											
Closeout	-											
	18,403											

Total project cost may include expenditures not yet allocated to a specific phase.

## EXPENDITURE SCHEDULE

(in thousands \$)

Project	Actuals Thru	Planned Expenditures								Total
		FY23	FY24	FY25	FY26	FY27	FY28	FY29	Future	
95274003-Small Capital Improvements, Water Utility Network Modernization	4,263		0	1,950	2,263	6	470	350	9,101	18,403
with inflation	4,263		0	2,028	2,448	7	550	426	14,187	23,908

Actuals include project expenditures and encumbrances.

## FUNDING SCHEDULE

(in thousands \$)

Project	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
				FY23	FY24	FY25	FY26	FY27	FY28	
95274003-Small Capital Improvements, Water Utility Network Modernization	4,270	0	7	2,021	2,448	7	550	426	14,187	23,908

Adjusted Budget includes adopted budget plus approved budget adjustments.

## FUNDING SOURCES

(in thousands \$)

SCVWD Water Utility Enterprise Fund	23,908
Other Funding Sources	0
<b>Total</b>	<b>23,908</b>

# Financial Planning

# Financial Planning and Summary

## CIP FINANCIAL PLANNING

Board policy regarding financial planning and budgeting provides the foundation for CIP financial planning. The policy states:

- Executive Limitation EL-4, "Financial planning for any fiscal year shall be aligned with the Board's Ends, not risk fiscal jeopardy, and be derived from a multi-year plan."
- Executive Limitation EL-4.4, "A BAO shall include a credible multi-year projection of revenues and expenses, separation of capital and operational items, cash flow, staffing needs, external services, and disclosure of planning assumptions."
- Executive Limitation EL-4.1 "A BAO shall expend only those funds that have been appropriated in the Operating and Capital budgets, reserves, and debt service."

## KEY REVENUES SOURCES

### Water Charges

- Water charges include a ground water production charge, which is equivalent to the basic user charge, and is associated with the benefit of managing groundwater supplies. The groundwater charge is applied to water extracted from the groundwater basin in Zones W-2, W-5, W-7 and W-8. The basic user charge is applied to other types of water delivered by Valley Water. There are two rates: one for agricultural water and one for municipal and industrial water.
- A treated water surcharge, which is associated with the benefit of receiving treated water, is levied in addition to the basic user charge on water delivered from Valley Water's water treatment plants.

### Property Tax

Santa Clara County allocates property tax revenue to Valley Water from ad valorem taxes levied on land within the county.

### Special Parcel Tax

In November 2020, voters in Santa Clara County overwhelmingly approved Measure S, a renewal of Valley Water's Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program) which was originally approved in 2012 (2012 Safe, Clean Water Program). The measure needed 66.67% to pass and garnered more than 75% of votes at the November 2020 election. The renewed

Safe, Clean Water Program identifies six key community priorities, established in collaboration with tens of thousands of residents and stakeholders. The renewed Safe, Clean Water program became effective in Fiscal Year 2021-2022 (FY22), starting on July 1, 2021, following the conclusion of the 2012 Safe, Clean Water Program in FY21. The renewed Safe, Clean Water Program parcel tax will provide approximately \$826 million in the first 15 years of the program.

### Benefit Assessments

Benefit assessment revenue consists of levies approved by voters in 1986 and 1990 to support financing for flood control capital improvements. The ongoing budget amount is approximately 1.25 times the duly authorized annual debt service requirements for each watershed.

### Capital Reimbursements

Capital reimbursement revenues are from local, state and federal partners for capital projects carried on cooperatively by Valley Water and its partners. Valley Water fronts the partners' shares of capital expenditures and receives reimbursements from the partners at a later time.

### Interest

Interest is earned from Valley Water's investment portfolio.

### Valley Water Fund Structure

Valley Water's revenue sources are organized into eight funds. Each fund has specific revenue sources according to their intended purposes, and each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures or expenses, as appropriate.

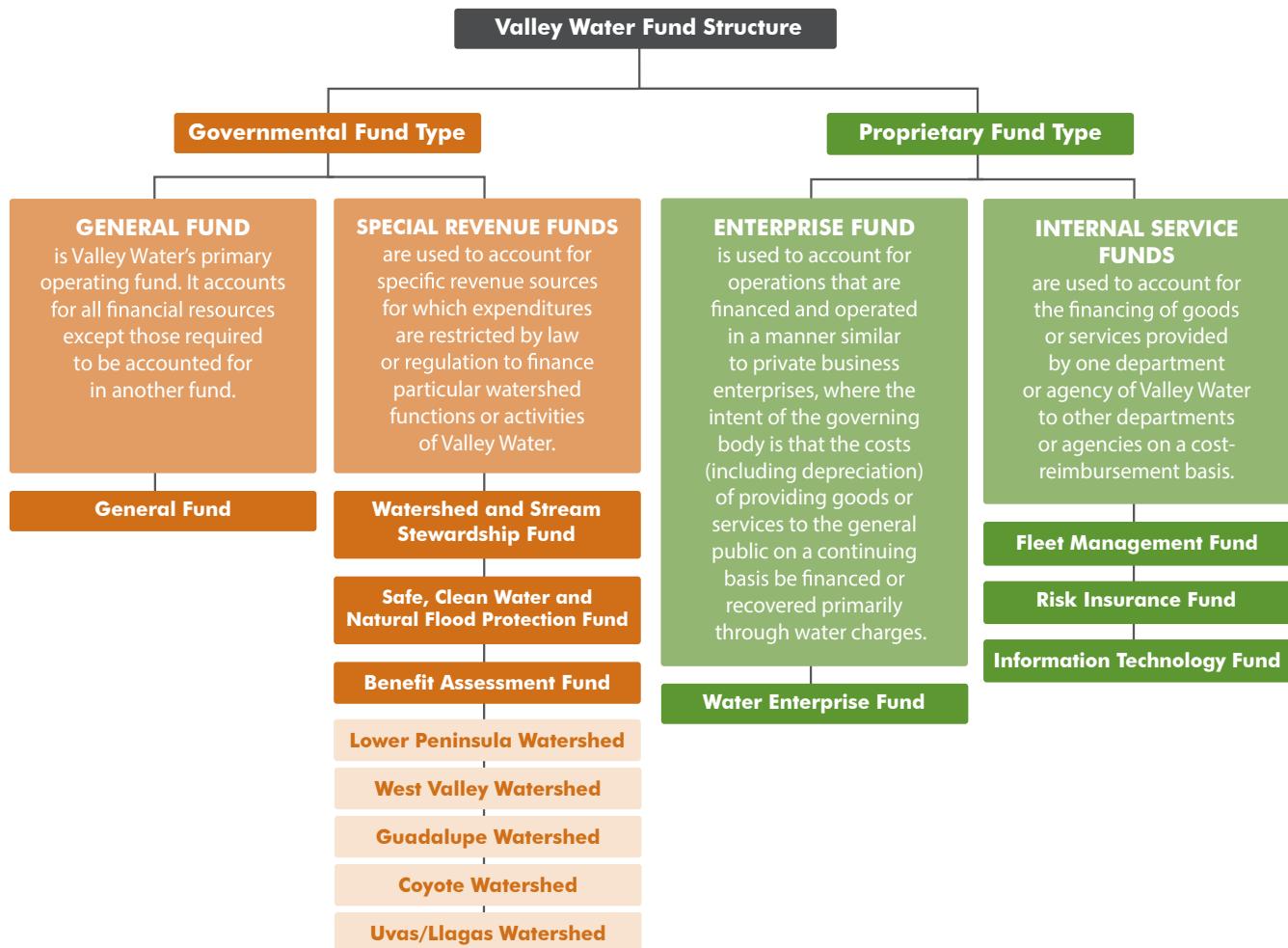
### Revenue Projections

Valley Water regularly updates the projected revenues based on the best information available.

- Revenues from water charges are estimated based on projections of water demand for residential, commercial, industrial, and agricultural consumption combined with rates per acre-foot. Rates are set at a level that will provide revenue needed to meet operating and capital needs.
- Revenues from property taxes, special parcel taxes, and benefit assessments are estimated based on projection of growth in assessed value and number of developed parcels in Santa Clara County.

# Financial Planning and Summary

- Interest earnings are estimated based on the projected average cash balances during the fiscal year and expected yield from Valley Water's investment portfolio.
- Revenues from capital partnerships are estimated based on the terms of agreements executed by Valley Water and its partners.



## Revenue by Fund (\$K)

FUND NAME	FY23 Actual	FY24 Adopted	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34
Water Utility Enterprise	335,393	382,514	448,037	528,769	607,863	696,261	767,337	876,557	958,437	1,042,421	1,025,357	1,097,402
Watershed Stream Stewardship	135,531	148,313	140,465	133,034	128,714	132,424	136,416	140,070	143,802	148,034	152,194	156,357
Safe, Clean Water and Natural Flood Protection	62,491	55,177	85,877	117,475	77,706	58,169	59,171	60,156	61,389	62,737	64,063	65,549
Benefit Assessment	13,229	6,823	7,053	6,855	6,852	6,855	6,856	6,854	-	-	-	-
General	13,873	10,476	12,278	12,632	13,048	13,433	13,831	14,240	14,661	15,095	15,542	16,003
Internal Service	906	450	539	599	638	657	689	708	729	750	773	796
<b>TOTAL</b>	<b>561,424</b>	<b>603,753</b>	<b>694,248</b>	<b>799,363</b>	<b>834,822</b>	<b>907,799</b>	<b>984,299</b>	<b>1,098,585</b>	<b>1,179,019</b>	<b>1,269,037</b>	<b>1,257,929</b>	<b>1,336,108</b>

Note: Internal Service is the combination of the Fleet Management Fund, the Information Technology Fund, and the Risk Management Fund.

# Financial Planning and Summary

## Expenditure Projections

Valley Water regularly updates operations and capital expenditures based on the best information available.

Each capital project cost estimate includes the yearly expenditures through completion based on the project's scope and schedule. The expenditures are monitored regularly and updated when necessary, for example, when there are any changes to a project's scope or schedule. A management review process is enforced to ensure only justified expenditure changes are approved.

Operations cost projections for the next 15 years are updated annually and are based on assumptions derived from Valley Water's strategic plans, including the impact of completed capital projects. Capital and operations expenditure projections are the foundation for the development of Valley Water's budget.

## Financial Analysis

Valley Water regularly performs financial analysis to comply with the Board's Financial Planning/Budgeting Policy. Valley Water uses sophisticated financial models to perform the analysis for each fund. The projected operation expenditures, capital expenditures, and revenues for the next ten years are incorporated into the financial models to analyze the health of each fund under various economic scenarios. This process assures that funds will be available when needed to implement the CIP.

The financial analysis generates alternatives for funding capital projects based on the available yearly revenues from all sources allocated to the capital program, and the debt financing capacity of each fund. The financial analysis establishes the parameters within which the capital project schedule is developed.

## Debt Projections and Debt Ratios

Debt is managed at Valley Water depending on the type of business involved. The Safe, Clean Water Program approved by the voters in 2012 and 2020 includes the authority to issue debt against future revenue in order to accelerate completion of projects sooner. Debt service on outstanding benefit assessment debt is funded by benefit assessments levied on property owners in the county.

The water utility business, on the other hand, uses a combination of short-term and long-term debt financing in

conjunction with pay-as-you-go financing to lessen impacts to the water rates caused by fluctuations in capital funding needs. Debt service on outstanding debt is paid from water revenues. Bond covenants stipulate that Valley Water must maintain a 1.25 debt coverage ratio on all parity bonds. The long-term financial analysis targets a debt coverage ratio of 2.0, which helps establish the parameters for capital planning that ensure bond covenants will be met.

Valley Water currently enjoys credit ratings that are among the highest for a water-related government entity in the state of California, which helps keep interest costs borne by Valley Water at a minimum.

## Relationship between the Operating Budget and CIP

Whenever Valley Water commits to capital improvements, there is a potential for associated long-range commitments of operating funds. For example, if 20-year bonds are issued to finance capital needs, then the operating funds will need to budget debt service payments for the next two decades. For this reason, it is important to evaluate capital commitments in the context of their long-range operating impact.

In addition to the long-range debt service payments, some capital projects affect future operating budgets either positively or negatively due to an increase or decrease in maintenance and operation costs. Such impacts vary widely from project to project and are evaluated individually during the project development stage. Valley Water is committing to a potential change in the operating budget when a capital project is approved.

The projected debt service payments and the positive or negative operating budget impacts are important factors considered in Valley Water's financial analysis.

## CIP FUNDING SUMMARY

Of the \$9.552 billion in total Valley Water funding for current and future projects, the Board appropriated \$2.767 billion in prior years through June 30, 2024 (the end of fiscal year 2023-24). This year's CIP process identified additional funding needs of \$6.785 billion to complete the projects in the CIP, with \$435 million allocated in fiscal year 2024-25 and a total of \$6.350 billion proposed for future years.

# Financial Planning and Summary

This chart identifies the operating budget impacts to each fund from projected debt service payments. The debt service payment in the Watershed Stream Stewardship Fund is a total of payments associated with each individual watershed.

## Debt Payment Schedule (\$K)

Fund	FY24	FY25	FY26	FY27	FY28	FY29
General	475	-	-	-	-	-
Benefit Assessment	11,174	5,802	5,807	5,761	5,759	5,761
Safe, Clean Water and Natural Flood Protection	9,474	10,267	12,861	13,530	20,590	22,093
Water Utility Enterprise	64,513	87,605	105,760	118,750	131,118	163,751
<b>TOTAL</b>	<b>85,635</b>	<b>103,674</b>	<b>124,427</b>	<b>138,041</b>	<b>157,468</b>	<b>191,604</b>

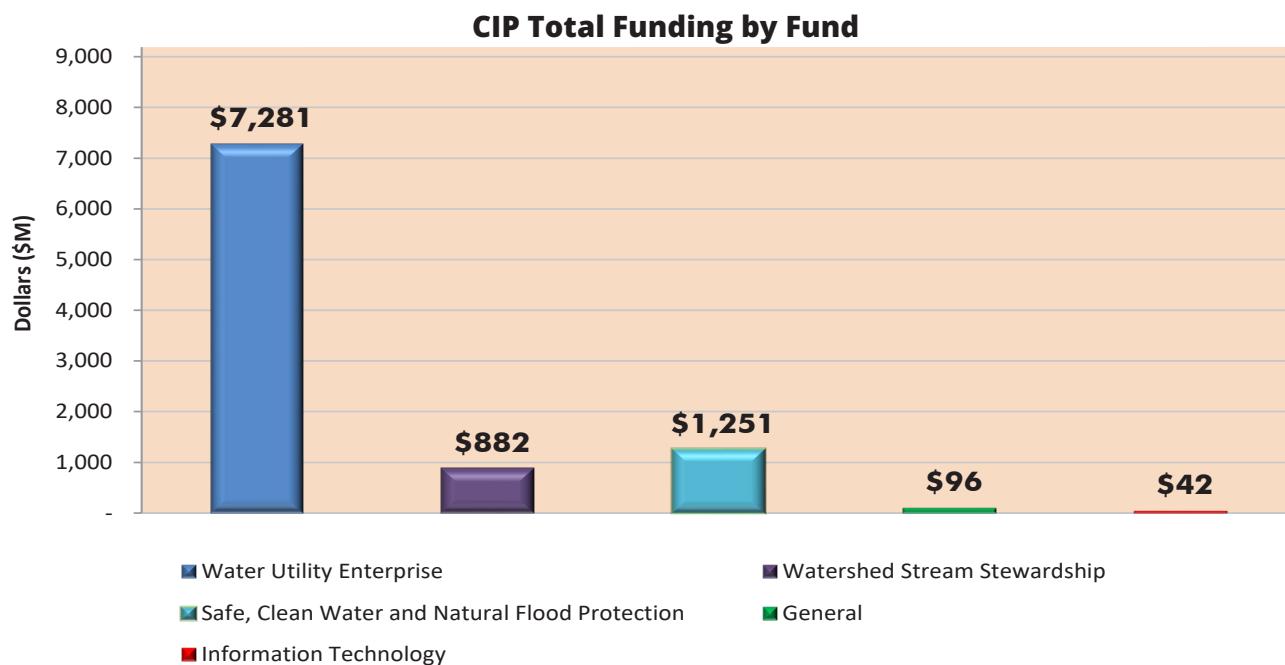
This chart identifies the net operating budget impacts to each fund resulting from annual maintenance and/or operating costs for newly completed capital projects. Additional information regarding operating impacts related to individual projects can be found on the project pages.

## Estimated Operating Impacts (\$K)

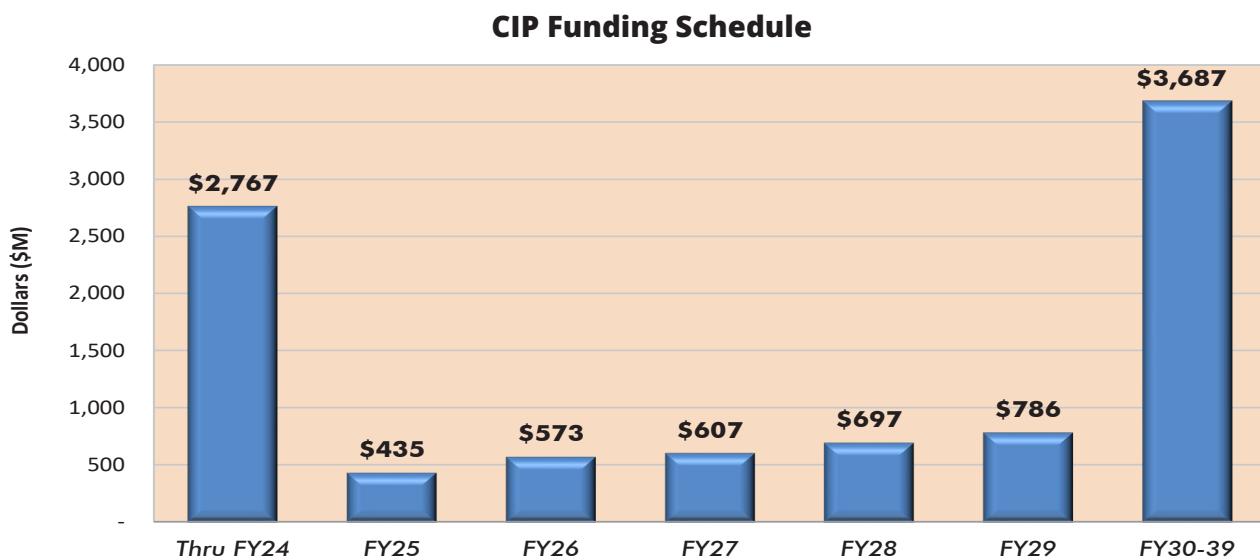
Fund Name	FY24	FY25	FY26	FY27	FY28	BEYOND
General Fund	-	-	-	-	-	-
Watershed Stream Stewardship Fund	250	250	514	514	514	514
Safe, Clean Water and Natural Flood Protection Fund	1,243	1,243	2,743	3,743	3,771	3,771
Water Utility Enterprise Fund	(159)	(149)	1,676	1,676	1,697	4,197
Information Technology Fund	300	400	400	400	400	400
<b>TOTAL</b>	<b>1,634</b>	<b>1,744</b>	<b>5,333</b>	<b>6,333</b>	<b>6,382</b>	<b>8,882</b>

# Financial Planning and Summary

This chart shows the needed \$9.552 billion to implement the 73 capital projects, as defined in the CIP, which are funded by five of Valley Water's funds.



This chart shows the funding schedule for the \$9.552 billion to implement the 73 capital projects.



# Financial Planning and Summary

## CIP Project Funding Schedule for Water Utility Enterprise Fund (\$K)

PROJECT NAME	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	TOTAL
Almaden Dam Improvements	9,744	58	483	-	-	4	175	182	30,298	40,461
Almaden Calero Canal Rehabilitation	5,028	138	-	696	724	18,801	1	-	-	25,388
Anderson Dam Seismic Retrofit (C1)	186,038	26,734	7,217	45,111	159,851	211,183	212,087	251,575	806,562	1,899,139
Anderson Dam Tunnel	149,603	59,589	4,317	42,426	973	404	-	-	-	252,995
Coyote Creek Flood Management Measures	29,182	56,135	-	31,420	555	118	35	-	-	117,445
Coyote Creek Chillers	19,687	3,229	581	555	-	-	-	-	-	23,471
Coyote Percolation Dam Replacement	5,167	12,496	-	73	-	-	-	-	-	17,736
Cross Valley Pipeline Extension	11,902	-	-	-	-	-	-	-	-	11,902
Calero and Guadalupe Dams Seismic Retrofits	36,682	1,173	1,914	3,120	3,245	3,472	13,962	26,576	196,312	284,542
Coyote Pumping Plant ASD Replacement	13,662	13,060	4,976	21,029	9,862	4,403	2,900	-	-	64,916
Coyote Warehouse	9,844	-	-	-	-	-	-	-	-	9,844
Dam Seismic Stability Evaluation	23,070	127	-	299	500	394	409	4,612	1,882	31,293
Small Capital Improvements, San Felipe Reach 1-3	n/a	7,005	-	3,146	97	3,412	13,500	14,093	31,754	73,007
Pacheco Reservoir Expansion Project (A1)	102,620	41,996	-	19,053	16,380	25,498	237,231	338,507	1,965,453	2,746,738
10-Year Pipeline Rehabilitation (FY18-FY27)	104,781	35,799	-	19,610	9,152	1,565	-	-	-	170,907
Almaden Valley Pipeline Replacement Project	1,588	1,677	-	2,129	2,214	2,522	2,254	19,606	87,295	119,285
Distribution System Master Plan Implementation	5,970	1,932	56	631	657	135	-	-	-	9,325
FAHCE Implementation	-	-	-	-	-	4,739	4,379	14,691	121,299	145,108
Pacheco/Santa Clara Conduit Right of Way Acquisition	5,840	74	493	228	-	-	-	-	-	6,142
SCADA Master Plan Implementation	5,320	389	704	50	728	-	-	-	-	6,487
SMPPIP Upgrades - Phase 1	-	-	-	586	552	1,270	1,295	1,358	5,364	10,425
Small Capital Improvements, Raw Water Transmission	n/a	1,020	-	2,274	919	731	866	791	7,106	13,707
Small Capital Improvements, Treated Water Transmission	n/a	276	-	104	45	-	47	41	268	781
Treated Water Isolation Valves	1,271	609	-	2,012	1,887	584	1,907	201	-	8,471
Vasona Pump Station Upgrade	4,750	-	535	1,170	1,774	11,337	14,528	3,245	-	36,804
PWTP Residuals Management	4,133	1,488	-	9,398	17,551	8,924	-	-	-	41,494
RWTP Residuals Remediation	80,232	1,210	5,656	-	-	-	-	-	-	81,441
RWTP Reliability Improvement	278,522	22,221	-	66,210	121,474	126,350	63,193	44,406	152	722,528
RWTP Ammonia Storage & Metering Facility Upgrade	-	630	-	478	545	2,944	2,297	-	-	6,894
Small Capital Improvements, Water Treatment	n/a	3,397	-	5,748	10,561	5,980	1,208	2,688	29,607	59,189
STWTP Filter Media Replacement Project	14,924	5,099	699	574	-	-	-	-	-	20,597
Water Treatment Plant Electrical Improvement Project	3,938	-	1,118	671	5,928	5,146	4,730	30	-	20,443
WTP Master Plan Implementation	5,404	3,057	211	517	283	-	-	-	-	9,261
San Jose Purified Water Project (SJPWP) - Phase 1	-	-	-	1,040	6,490	17,778	21,841	1,825	-	48,974
Land Rights - South County Recycled Water PL	3,807	3,010	201	9	-	-	-	-	-	6,826
South County Recycled Water Pipeline	59,421	379	27	171	143	23	-	-	-	60,136
FAHCE Stevens Creek Fish Passage Enhancement - 90%	765	-	-	-	-	1,528	2,862	39	-	5,194
Coyote Percolation Dam Fish Passage - Phase 2	-	-	-	-	-	1,886	1,962	2,040	14,071	19,959
Ogier Ponds Construction (e.g. Ogier Ponds)	-	-	-	-	-	-	-	-	27,963	27,963
Small Capital Improvements WU Computer Network Modernization	4,270	-	7	2,021	2,448	7	550	426	14,187	23,909
<b>TOTAL</b>	<b>1,187,164</b>	<b>304,006</b>	<b>29,195</b>	<b>282,559</b>	<b>375,538</b>	<b>461,138</b>	<b>604,218</b>	<b>726,931</b>	<b>3,339,573</b>	<b>7,281,126</b>

FY 2023-24 Funds to be reappropriated

# Financial Planning and Summary

## CIP Project Funding Schedule for Watershed and Stream Stewardship Fund (\$K)

PROJECT NAME	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	TOTAL
Palo Alto Flood Basin Tide Gate Structure Replacement	7,537	-	27	650	3,238	50	-	-	-	11,475
Permanente Creek, SF Bay to Foothill Expressway	20,306	21	-	21	-	-	-	-	-	20,348
San Francisquito Creek, SF Bay thru Searsville Dam	4,064	-	-	-	-	-	-	-	-	4,064
San Francisquito Creek, Early Implementation	1,614	-	-	-	-	-	-	-	-	1,614
Lower Guadalupe River Capacity Restoration Project	5,613	1,341	-	3,121	3,245	3,375	30,938	29,670	29,676	106,979
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 1	48,591	-	1,690	-	-	-	-	-	-	48,591
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 2	89,087	342	97	168	87	-	-	-	-	89,684
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 3	-	-	-	-	-	-	-	-	49,774	49,774
Lower Penitencia Ck Improvements, Coyote Ck to Berryessa Ck	34,869	525	178	-	105	22	-	-	-	35,521
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps	9,467	-	-	-	-	-	-	-	-	9,467
Upper Penitencia Ck, Coyote Ck-Dorel Dr, LERRDs	2,309	-	-	-	-	-	-	-	-	2,309
Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River	6,947	-	-	-	-	-	-	-	-	6,947
San Francisco Bay Shoreline	98,510	2,796	-	53	15,965	-	-	-	-	117,324
San Francisco Bay Shoreline - Contribution	490	-	-	-	-	-	-	-	-	490
Shoreline Early Implementation	359	-	-	-	-	-	-	-	-	359
Small Capital Improvements, Watersheds Asset Rehabilitation Program (WARP)	57,014	13,115	-	19,680	17,550	9,511	10,000	10,476	167,063	304,409
FAHCE Stevens Creek Fish Passage Enhancement - 10%	85	-	-	-	-	170	318	4	-	577
FAHCE Stevens Creek Fish Passage Construction - 100%	-	-	-	-	-	490	3,497	3,677	6,086	13,750
Ogier Ponds Construction (e.g. Ogier Ponds)	-	-	-	-	-	-	-	-	27,963	27,963
Calabazas/San Tomas Aquino Creek-Marsh Connection	9,017	1,415	-	1,651	1,711	1,683	-	-	-	15,477
Pond A4 Resilient Habitat Restoration Project	-	4,725	-	967	-	-	-	-	-	5,692
Coyote 10B Freshwater Wetlands	-	-	-	2,236	3,283	3,382	-	-	-	8,902
<b>TOTAL</b>	<b>395,879</b>	<b>24,280</b>	<b>1,992</b>	<b>28,547</b>	<b>45,184</b>	<b>18,683</b>	<b>44,753</b>	<b>43,827</b>	<b>280,562</b>	<b>881,716</b>

FY 2023-24 Funds to be reappropriated

# Financial Planning and Summary

## Project Funding Schedule for Safe, Clean Water and Natural Flood Protection Fund (\$K)

PROJECT NAME	Through FY23	FY24	FY24 Unspent	FY25	FY26	FY27	FY28	FY29	FY30-39	TOTAL	
IRP2 Additional Line Valves (A3)	3,814	3,558	-	9,497	3,794	4,090	578	111	-	25,442	
Permanente Creek, SF Bay to Foothill Expressway	94,918	-	-	-	-	-	-	-	-	94,918	
San Francisquito Creek, SF Bay thru Searsville Dam (E5)	6,411	-	-	-	-	-	-	-	-	6,411	
San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5)	63,689	4,917	972	22,781	9,453	422	427	113	-	101,802	
Sunnyvale East and West Channels (E2)	38,402	-	1,950	9,363	5,076	2,225	1,234	1,486	-	57,786	
Guadalupe Rv-Upper, Fish Passage Mods (E8)	2,651	-	-	-	-	-	-	-	-	2,651	
Guadalupe Rv-Upper, I-280 to SPRR (Rch 6) (E8)	35,421	-	540	-	-	-	-	73	1,942	677	38,113
Guadalupe Rv-Upper, SPRR-Blossom Hill (Rch 7-12) (E8)	89,399	-	19,964	-	-	15,569	18,133	1,825	-	124,926	
Guadalupe Rv-Upper, Actuals chg to other proj numbers	7,887	-	-	-	-	-	-	-	-	7,887	
Berryessa Ck, Calaveras-l-680 - USACE	35,594	1,146	100	4	-	-	-	-	-	36,744	
Berryessa Ck, Calaveras-l-680 - Reimbursable (LERRD's)	17,670	-	-	-	-	-	-	-	-	17,670	
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Phs 3 - Planning and Design (E3)	-	-	-	-	-	-	-	-	7,755	7,755	
Coyote Creek, Montague Expressway to Tully Road (E1)	25,230	1,604	-	13,576	94,496	77,484	3,195	36	522	216,143	
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4)	11,253	-	5,836	-	-	-	-	-	-	11,253	
Liagas Creek-Upper, LERRD's (E6b)	48,088	2,022	1,001	-	60	22	-	-	-	50,192	
Liagas Creek-Upper, USACE Coordination (E6a)	172,056	-	4,541	637	270	-	-	-	-	172,963	
Liagas Creek-Upper, Technical Studies	1,446	-	-	-	-	-	-	-	-	1,446	
Liagas Creek-Upper, Design (E6)	28,193	-	3,424	-	-	-	-	-	-	28,193	
Liagas Creek-Phase 2B Construction E6)	-	22,400	-	56,000	11,200	-	-	-	-	89,600	
San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)	17,516	-	-	-	-	-	-	-	-	17,516	
San Francisco Bay Shoreline - EIAs 1-4 (E7)	7,406	2,707	-	1,066	5,624	5,849	6,083	-	-	28,735	
San Francisco Bay Shoreline - EIAs 5-9 (E7)	2,090	1,045	685	1,135	838	3,403	3,539	3,680	-	15,730	
Hale Creek Enhancement Pilot Project (D6.1)	12,347	10	180	-	43	-	-	-	-	12,400	
Almaden Lake Improvements (D4.1)	37,597	-	27,340	-	-	-	-	-	-	37,597	
Ogier Ponds Separation from Coyote Creek (D4.2)	2,762	1,230	-	1,059	32	34	35	694	486	6,332	
Ogier Ponds Construction (D4.2)	-	-	-	-	-	-	-	-	7,418	7,418	
South Bay Salt Ponds Restoration (D8)	308	-	-	-	-	-	-	-	-	308	
SCW Fish Passage Improvements (D4.3)	5,524	-	169	-	-	-	-	-	-	5,524	
Bolsa Road Fish Passage Improvement (D6.2)	6,375	2,661	-	27	27	84	-	-	-	9,174	
SCW D4.3 Fish Passage Improvements	-	998	-	1,515	2,089	4,701	-	-	-	9,303	
SCW Regnart Creek Rehabilitation Project (F8)	-	-	-	696	8,231	40	-	-	-	8,967	
<b>TOTAL</b>	<b>774,046</b>	<b>44,298</b>	<b>66,702</b>	<b>117,356</b>	<b>141,233</b>	<b>113,923</b>	<b>33,297</b>	<b>9,887</b>	<b>16,858</b>	<b>1,250,899</b>	

FY 2023-24 Funds to be reappropriated

# Financial Planning and Summary

## Project Funding Schedule for General Fund (\$K)

PROJECT NAME	Through FY23	FY24	FY24 Unspent	FY25						FY29		FY30-39		TOTAL
				FY25	FY26	FY27	FY28	FY29	FY30-39	FY29	FY30-39	TOTAL		
Small Capital Improvements, Facility Management	n/a	4,000	-	4,006	4,000	4,000	4,000	4,000	40,000	-	-	64,006		
Security Upgrades and Enhancements	314	314	-	315	331	7,116	8,495	-	-	-	-	16,885		
Headquarters Operations Building	4,100	-	1,395	1,485	6,228	1,120	1,135	958	32	-	-	15,058		
<b>TOTAL</b>	<b>4,414</b>	<b>4,314</b>	<b>1,395</b>	<b>5,806</b>	<b>10,559</b>	<b>12,236</b>	<b>13,630</b>	<b>4,958</b>	<b>40,032</b>	<b>95,949</b>				

FY 2023-24 Funds to be reappropriated

## Project Funding Schedule for Information Technology Fund (\$K)

PROJECT NAME	Through FY23	FY24	FY24 Unspent	FY25						FY29		FY30-39		TOTAL
				FY25	FY26	FY27	FY28	FY29	FY30-39	FY29	FY30-39	TOTAL		
Data Consolidation	1,232	17	-	36	-	-	-	-	-	-	-	1,285		
IT Disaster Recovery	2,602	44	-	-	-	-	-	-	-	-	-	2,646		
ERP System Implementation	17,566	-	123	-	-	-	-	-	-	-	-	17,566		
Small Capital Improvements, Software Upgrades & Enhancements	5,634	1,322	-	642	677	715	754	792	10,337	-	-	20,873		
<b>TOTAL</b>	<b>27,034</b>	<b>1,383</b>	<b>123</b>	<b>678</b>	<b>677</b>	<b>715</b>	<b>754</b>	<b>792</b>	<b>10,337</b>	<b>42,370</b>				

FY 2023-24 Funds to be reappropriated

## CIP Funding Schedule Summary for All Funds (\$K)

FUND NAME	Through FY23	FY24	FY24 Unspent	FY25						FY29		FY30-39		TOTAL
				FY25	FY26	FY27	FY28	FY29	FY30-39	FY29	FY30-39	TOTAL		
Water Utility Enterprise	1,187,164	304,006	29,195	282,559	375,538	461,138	604,218	726,931	3,339,573	-	-	7,281,126		
Watershed Stream Stewardship	395,879	24,280	1,992	28,547	45,184	18,683	44,753	43,827	280,562	-	-	881,716		
Safe, Clean Water and Natural Flood Protection	774,046	44,298	66,702	117,356	141,233	113,923	33,297	9,887	16,858	-	-	1,250,899		
General	4,414	4,314	1,395	5,806	10,559	12,236	13,630	4,958	40,032	-	-	95,949		
Information Technology	27,034	1,383	123	678	677	715	754	792	10,337	-	-	42,370		
<b>TOTAL</b>	<b>2,388,537</b>	<b>378,281</b>	<b>99,407</b>	<b>434,946</b>	<b>573,191</b>	<b>606,695</b>	<b>696,652</b>	<b>786,395</b>	<b>3,687,362</b>	<b>9,552,058</b>				

FY 2023-24 Funds to be reappropriated

# Appendices

## Appendix A - Valley Water Partnership Summary

Partnership Reimbursements are funds that are reimbursed by Valley Water's partners after Valley Water advances the needed funds. The following table identifies capital projects that are funded cooperatively with Valley Water's partners through reimbursements.

### Partnership Reimbursement (\$K)

FY 2025-39 Planned Capital Reimbursement Schedule		Claims	Actuals								
Project Number	Project Name	Agency	On-hand (3/5/24)	Thru FY23	FY24	FY25	FY26	FY27	FY28	Future	Total
91864010	Cross Valley Pipeline Extension	Total	0	5,040	777	0	0	0	0	0	5,817
		DWR - Prop 1E		5,040	777	0	0	0	0	0	5,817
91214010	Small Capital Improvements, San Felipe - Rch 1	Total	0	3,382	271	456	556	21	184	12,659	17,529
		San Benito Water Dist		3,382	271	456	556	21	184	12,659	17,529
91954002	Pacheco Reservoir Expansion Project	Total	0	20,766	3,434	0	0	30,179	59,159	390,462	504,000
		California Water Commission		20,766	3,434	0	0	30,179	59,159	390,462	504,000
92144001	Pacheco/Santa Clara Conduit ROW Acquisition	Total	0	19	0	0	0	0	0	0	19
		San Benito Water Dist		19	0	0	0	0	0	0	19
20444001	Calabazas/San Tomas Aquino Ck-Marsh Connection	Total	0	80	3,790	0	0	0	0	0	3,870
		SFBRA Measure AA		46	3,324						3,370
		CDFW		34	466						500
91094007s	South County Recycled Water Pipeline	Total	0	5,261	2,545	0	0	0	0	0	7,806
		SCRWA		811							811
		USBR - ARRA		1,295							1,295
		USBR - Title 16		3,155	2,545	0					5,700
26154001s	Guadalupe River-Upper, I-280 - Blossom Hill Rd.	Total	0	36,018	0	0	0	0	0	0	36,018
		State Subventions		31,427							31,427
		City of San Jose		4,591							4,591
26174041s	Berryessa Ck, Calaveras Blvd to I-680	Total	0	14,124	0	0	0	0	0	0	14,124
		State Subventions		4,124							4,124
		DWR - Prop 1E		10,000							10,000
40174004	Berryessa Ck, Lwr Penitencia Ck - Calaveras Blvd. (Phase 1)	Total	0	12,494	2,506	0	0	0	0	0	15,000
		DWR - Prop 1E		12,494	2,506						15,000
40174005	Berryessa Ck, Lwr Penitencia Ck - Calaveras Blvd. (Phase 2)	Total	0	0	1,994	0	0	0	0	0	1,994
		City of Milpitas		0	1,994						1,994
40334005	Lwr Penitencia Ck Imp, Berryessa to Coyote Cks.	Total	0	5,000	314	0	0	0	0	0	5,314
		DWR - Prop 1E		5,000							5,000
		City of Milpitas		0	314						314
50284010	Llagas Ck-Lwr, Capacity Restoration	Total	0	120	0	0	0	0	0	0	120
		State Subventions		120							120
26174051s	Llagas Creek-Upr, Buena Vista to Wright	Total	0	39,383	1,000	0	0	0	0	0	40,383
		State Subventions		35,068	1,000						36,068
		City of Morgan Hill		4,315							4,315
26244001	Permanente Creek, SF Bay to Foothill Expway	Total	0	1,023	0	0	0	0	0	0	1,023
		Cities of Mountain View and Los Altos		1,023							1,023
10284007s	San Francisquito Creek, SF Bay - Searsville Dam	Total	0	5,558	0	0	0	0	0	0	5,558
		JPA Member Agencies		4,520							4,520
		JPA (Joint Powers Authority)		1,038							1,038
26444001	San Francisco Bay Shoreline	Total	0	6,000	0	0	0	0	0	0	6,000
		SFBRA Measure AA (Grant)		6,000							6,000
00044026	San Francisco Bay Shoreline	Total	0	34,829	17,681	11,400	0	0	0	0	63,910
		SFBRA Measure AA (Grant)		26,795	16,884	11,400					55,079
		SFBRA Measure AA (Ballot Reimbursement)		831							831
		State Subventions		7,203	797						8,000
26444002	San Francisco Bay Shoreline	Total	0	420	0	0	0	0	0	0	420
		State Bond - DWR		420							420
62084001	Watersheds Asset Rehabilitation Program	Total	0	442	0	0	0	0	0	0	442
		City of Palo Alto		442							442
SUBTOTAL - Reimbursements from Current Projects			0	189,959	34,312	11,856	556	30,200	59,343	403,121	729,347

# Appendix A - Valley Water Partnership Summary

## Partnership Reimbursement (\$K) (cont'd)

Pending Reimbursements for Closed Projects		Claims	Actuals								
Project Number	Project Name	Agency	On-hand (3/5/24)	Thru FY23	FY24	FY25	FY26	FY27	FY28	Future	Total
30154013s	Guadalupe River-DT, I-880 to I-280		Total	500	39,480	0	0	0	0	0	39,480
		State Subventions	500	27,618							27,618
		City of San Jose		1,654							1,654
		San Jose Redevelopment Agency		10,208							10,208
40264008s	Lwr Silver Ck, I-680 to Cunningham, Rchs 4-6		Total	0	53,445	0	0	0	0	0	53,445
		State Subventions		8,399							8,399
		DWR - Prop 1E		24,000							24,000
		NRCS-ARRA		20,676							20,676
		City of San Jose		370							370
91214001	Pacheco Conduit Inspection & Rehabilitation		Total	0	1,500	0	0	0	0	0	1,500
		San Benito Water Dist		1,500							1,500
91244001	Wolfe Road Recycled Water Pipeline		Total	0	12,201	0	0	0	0	0	12,201
		Apple Computer		4,800							4,800
		Cal Water		1,500							1,500
		City of Sunnyvale		2,101							2,101
		DWR - Prop 84		3,800							3,800
94384002	Penitencia Delivery Main Seismic Retrofit		Total	0	5,107	0	0	0	0	0	5,107
		Department of Water Resources (A3904)		5,107							5,107
92224001	Penitencia Force Main Seismic Retrofit		Total	0	3,884	0	0	0	0	0	3,884
		Department of Water Resources (A3904)		3,884							3,884
91184008	Silicon Valley Advanced Water Purification Ctr		Total	0	22,046	0	0	0	0	0	22,046
		City of San Jose		8,500							8,500
		DWR - Prop 50		2,935							2,935
		DWR - Prop 84		2,486							2,486
		USBR - ARRA		8,125							8,125
SUBTOTAL - Reimbursements for Closed Projects			500	137,663	0	0	0	0	0	0	137,663
TOTAL REIMBURSEMENTS			500	327,622	34,312	11,856	556	30,200	59,343	403,121	867,010

## Appendix A - Valley Water Partnership Summary

Partnership Funding is funds that are made available by Valley Water's partners, when needed. The following table identifies capital projects that receive partnership funding. This may occur through either cost sharing agreements or as in-kind services.

### Partnership Funding

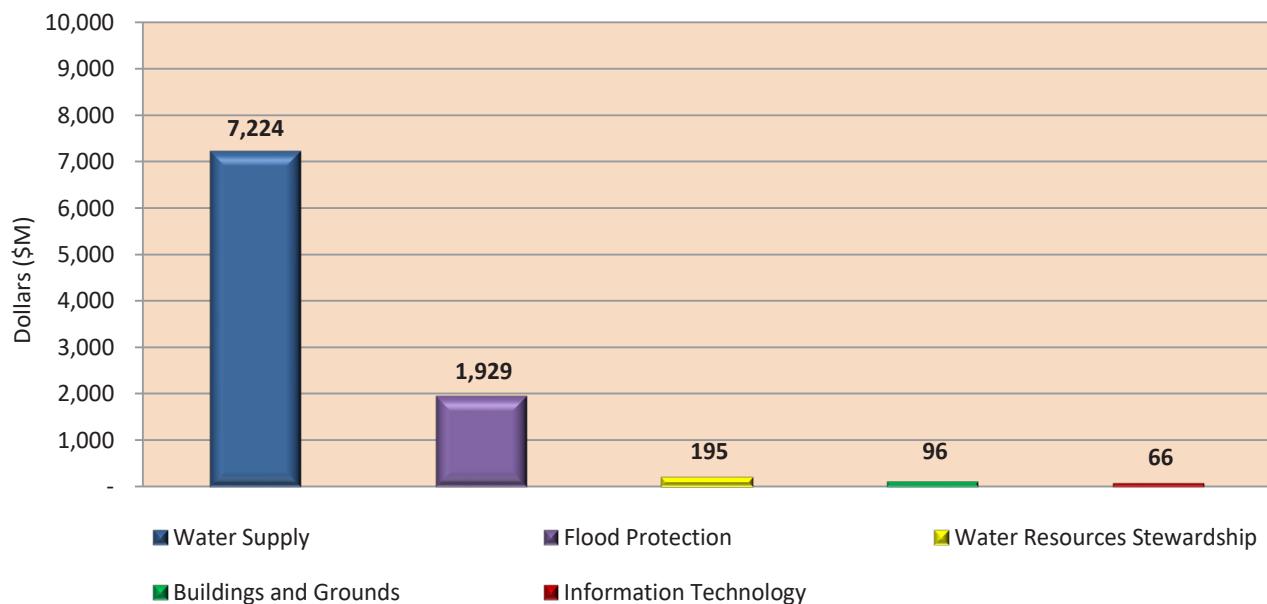
Project Number	Project Name	Amount (\$K)	Partnering Agency
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	13,600	U.S. Army Corps of Engineers
26154001s	Guadalupe River—Upper, Interstate 280 to Blossom Hill Road	188,000	U.S. Army Corps of Engineers
26174051s	Llagas Creek—Upper, Buena Vista Road to Wright Avenue	65,000	U.S. Army Corps of Engineers
00044026s	San Francisco Bay Shoreline	91,250	USACE, Coastal Conservancy, US Fish & Wildlife, CA Wildlife Conservation, Packard-Hewlett-Goldman-Moore Foundations
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	3,000	U.S. Army Corps of Engineers
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	11,040	San Francisquito Joint Powers Authority (DWR)
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	1,500	County of San Mateo
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	102,720	U.S. Army Corps of Engineers
		<b>TOTAL \$ 476,110</b>	

## Appendix B - Summary of Capital Expenditures

### Expenditure Schedule by Type of Improvement (\$K)

Fund Name	Through FY23 (Actuals)	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35-39	TOTAL
Water Supply	1,106,028	358,282	311,445	377,171	463,644	599,422	724,537	641,994	666,606	572,820	525,477	501,870	374,589	7,223,886
Flood Protection	968,725	136,352	139,181	178,347	128,405	73,780	49,229	41,439	13,668	14,598	16,009	18,809	150,943	1,929,486
Water Resources Stewardship	41,601	16,530	8,274	15,493	13,999	8,674	6,454	11,010	40,563	32,414	-	-	-	195,012
Buildings and Grounds	384	6,949	7,201	10,559	12,236	13,630	4,958	4,032	4,000	4,000	4,000	4,000	20,000	95,949
Information Technology	29,770	2,787	2,706	3,125	722	1,304	1,218	1,492	2,780	1,145	2,701	1,997	14,410	66,156
<b>TOTAL</b>	<b>2,146,508</b>	<b>520,900</b>	<b>468,807</b>	<b>584,696</b>	<b>619,006</b>	<b>696,811</b>	<b>786,396</b>	<b>699,966</b>	<b>727,617</b>	<b>624,978</b>	<b>548,187</b>	<b>526,676</b>	<b>559,942</b>	<b>9,510,488</b>

### CIP Expenditures by Type of Improvement

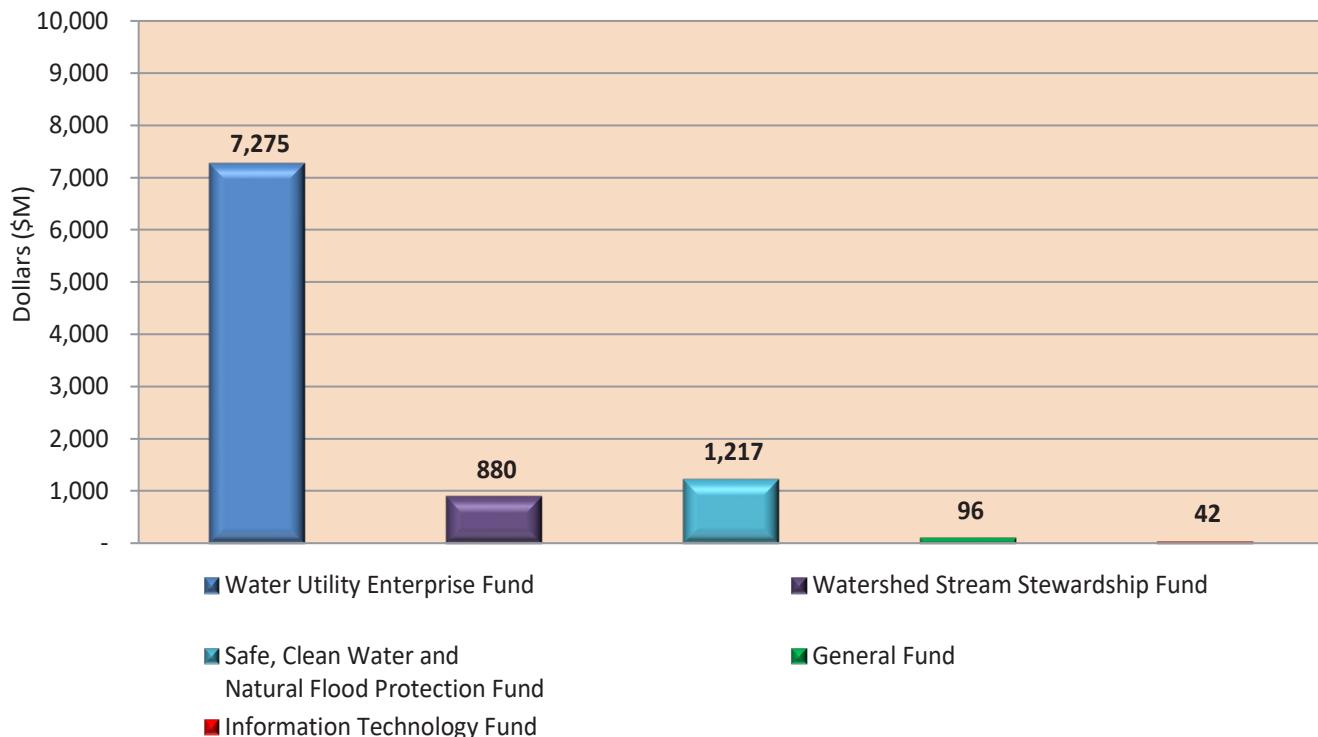


## Appendix B - Summary of Capital Expenditures

### Expenditure Schedule by Fund (\$K)

Fund Name	Through FY23 (Actuals)	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35-39	TOTAL
Water Utility Enterprise Fund	1,107,234	354,732	303,976	375,825	462,975	604,218	726,931	649,447	689,451	587,363	527,223	502,866	383,227	7,275,469
Watershed Stream Stewardship Fund	376,155	42,017	28,812	45,218	18,683	44,753	43,827	44,368	29,280	28,223	14,586	16,959	147,145	880,026
Safe, Clean Water and Natural Flood Protection Fund	637,228	114,415	128,141	152,417	124,397	33,455	9,888	1,290	4,017	4,480	1,423	1,850	3,798	1,216,798
General Fund	384	6,949	7,201	10,559	12,236	13,630	4,958	4,032	4,000	4,000	4,000	4,000	20,000	95,949
Information Technology	25,507	2,787	678	677	715	754	792	830	869	911	955	1,001	5,772	42,247
<b>TOTAL</b>	<b>2,146,508</b>	<b>520,900</b>	<b>468,807</b>	<b>584,696</b>	<b>619,006</b>	<b>696,811</b>	<b>786,396</b>	<b>699,966</b>	<b>727,617</b>	<b>624,978</b>	<b>548,187</b>	<b>526,676</b>	<b>559,942</b>	<b>9,510,488</b>

### CIP Expenditures by Fund



# Appendix C - Safe, Clean Water Project Schedules

The following table is an overview schedule for Safe, Clean Water Capital Projects identified in the FY 2025-29 CIP. Detailed information for each project can be found in this document in their respective chapters in the order presented in this table.

## Safe, Clean Water Capital Improvement Project Schedules

Project Number	Project Name	FY05 - FY09	FY10 - FY14	FY15 - FY19	FY20 - FY24	FY25 - FY29	FY30 - FY34
<b>WATER SUPPLY</b>							
91864005	Anderson Dam Seismic Retrofit (C1)						
26764001	IRP2 Additional Line Valves (A3)						
<b>FLOOD PROTECTION</b>							
26244001	Permanente Creek, SF Bay to Foothill Expressway						
26284001	San Francisquito Creek, SF Bay thru Searsville Dam (E5)						
26284002	San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5)						
26074002	Sunnyvale East and West Channels (E2)						
26154002	Guadalupe Rv-Upper, I-280 to SPRR (Reach 6) (E8)						
26154003	Guadalupe Rv-Upper, SPRR-Blossom Hill (Reaches 7-12) (E8)						
26174041	Berryessa Ck, Calaveras-I-680 - Corps						
26174043	Coyote Creek, Montague Expressway to Tully Road (E1)						
26324001	Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4)						
26174051	Llagas Creek-Upper, LERRD's (E6b)						
26174052	Llagas Creek-Upper, USACE Coordination (E6a)						
26174054	Llagas Creek-Upper, Design (E6)						
26174055	Llagas Creek-Upper, Phase 2B Construction (E6)						
00044026	San Francisco Bay Shoreline (E7)						
26444001	San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)						
26444002	San Francisco Bay Shoreline - EIAs 1-4 (E7)						
26444004	San Francisco Bay Shoreline - EIAs 5-9 (E7)						
<b>WATER RESOURCES STEWARDSHIP</b>							
26044001	Almaden Lake Improvements (D4.1)						
26164001	Hale Creek Enhancement Pilot Study (D6)						
26044002	SCW Fish Passage Improvements (D4.3)						
26044003	SCW Ogier Ponds Separation (D4.2)						
26044004	Bolsa Road Fish Passage Improvements (D6.2)						
26044005	SCW D4.3 Fish Passage Improvements						

\*Safe, Clean, Water (SCW) and Capital Improvement Program (CIP) schedules may vary slightly due to the definition of project completion by each program.

### Legend

Planning Phase
Design Phase
Construction Phase
Close-out Phase

# Appendix D - Glossary

## **Ad Valorem Tax**

A tax based on value (e.g., a property tax).

## **Appropriation**

An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows Valley Water to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

## **ARRA** American Recovery and Reinvestment Act

## **Assessment**

The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

## **Asset**

A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

## **BAO** Board Appointed Officer

## **Benefit Assessment**

Determination of the benefits derived from Valley Water activities within particular watersheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

## **Bonds**

Bonds are a long-term source of debt that provides a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity date(s), together with periodic interest at a specific rate.

## **Capital Expenditure**

Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involved a major expenditure of Valley Water resources greater than \$50,000. They can be made with regard to tangible and intangible assets.

The general categories of capital expenditures are: rehabilitation, major repairs, improvements/ betterments/ upgrades, replacements, expansions/ additions, and ancillary expenditures.

## **Capital Projects**

Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the life of an asset, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of Valley Water resources in excess of \$50,000.

## **Certificates of Participation (COP)**

A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

## **CEQA** California Environmental Quality Act

## **CFS** Cubic Feet-Per-Second

## **CIP** Capital Improvement Program

## **Clean, Safe Creeks (CSC)**

In November 2000, Santa Clara County voters approved the special parcel tax, the Clean, Safe Creeks and Natural Flood Protection Plan (Clean, Safe Creeks) to address community needs for enhanced stream stewardship and flood protection. The 15-year Clean, Safe Creeks Plan was replaced in its entirety by the Safe, Clean Water and Natural Flood Protection Program, which voters approved in 2012 (2012 Safe, Clean Water).

## **Cost Center**

Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements, the first two digits of a project number identifies the cost center.

## **COVID-19**

Disease caused by novel coronavirus, which caused a pandemic in 2020.

## **DPR** Direct Potable Reuse

# Appendix D - Glossary

**DSOD** California Division of Safety of Dams

**DWR** State Department of Water Resources

**EIA** Economic Impact Analysis

**EIR** Environmental Impact Report

## **Encumbrances**

Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

## **Enterprise Fund**

Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private business, where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a accounting basis is financed or recovered primarily through user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

**EPA** Environmental Protection Agency

**ERP** Enterprise Resource Planning

## **Expenditure/Expense**

Decreases in net financial resources. Expenditures include current operating expenses requiring the present or future of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by Valley Water are labor and overhead, land and structures, equipment, and debt service.

## **Facility**

Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

**FAHCE** Fisheries and Aquatic Habitat Collaborative Effort

**FERC** Federal Energy Regulatory Commission

## **Fixed Assets**

Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment, with a value of \$2,000 or more, or the combined value of like or related units (aggregate value) is greater than \$5,000 if the unit value is less than \$2,000.

## **Fiscal Year**

A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. Valley Water's fiscal year is July 1 through June 30.

**FOCP** Federal Energy Regulatory Commission Order Compliance Project

## **Fund**

A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

## **General Fund**

A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

## **Grants**

Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

**HVAC** Heating, Ventilation, and Air Conditioning

**IPR** Indirect Potable Reuse

**JPA** Joint Power Authority

## Appendix D - Glossary

### **KPI**

Each project under the Safe, Clean Water Program has Key Performance Indicators (KPIs) that define the deliverables that are Valley Water's commitment to the voters. Safe, Clean Water Projects may have multiple KPIs and each KPI may result in separate or multiple projects within the Capital Improvement Program.

**LERRD** Lands, Easements, Rights-of-Way, Relocation, and Disposal

### **Levy**

(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities;  
(2. Noun) The total amount of taxes, special assessments, or service charges imposed by a government agency.

### **Long-Term Debt**

Debt with a maturity date of more than one year after the date of issuance.

### **Measure S**

In November 2020, voters in Santa Clara County overwhelmingly approved Measure S, a renewal of Valley Water's Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program) that voters had approved in 2012. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

**MGD** Million Gallons per Day

### **One-Percent Flood or 100-Year Flood**

Has a 1% chance of occurring in a given year. Valley Water projects are usually designed for the 1% flood, a national standard established by the Federal Emergency Management Agency (FEMA).

### **Operating Expenditure**

Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor components. The American Waterworks Association (AWWA) says that these components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of understanding operating leverage and structuring service charge rates.

### **Operations**

Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any Valley Water work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight; however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

**P3** Public Private Partnership

### **Projects**

At Valley Water, a project is any undertaking which has (1) a beginning and an ending, and (2) is a one-time occurrence. Projects can require expenditure of capital or operating funds and, at Valley Water, are called Capital or Operating Projects, accordingly. Project usually, but not always, relate to a Valley Water facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as a Records Management or Financial Management System.

### **Revenue**

Monies Valley Water receives in exchange for services or sales provided. Revenue items include water sales, property

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tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

### **Revenue Bonds**

Bonds, whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

### **Reserve**

An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

### **SCADA**

Supervisory Control and Data Acquisition

### **SCRWA**

South County Regional Wastewater Authority

### **Safe, Clean Water (SCW)**

In November 2012, Santa Clara County voters approved the Safe, Clean Water and Natural Flood Protection Program (2012 Safe, Clean Water) to address water supply, flood protection and environmental stewardship priorities. In 2020, voters approved the renewal of the Safe, Clean Water Program, replacing the 2012 Safe, Clean Water Program in entirety and is set to begin in FY 2021-22. Unlike the first two special parcel taxes, which were set to sunset in 15-years from the date of implementation, the renewed Safe, Clean Water Program will continue until repealed by voters or until the Board determines the funding is no longer needed.

**SMP** Stream Maintenance Program

**WIFIA** Water Infrastructure Finance and Innovation Act

**WTP** Water Treatment Plant

**WQL** Water Quality Lab



# Valley Water

Clean Water • Healthy Environment • Flood Protection

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