FLOOD PROTECTION OVERVIEW

Of the approximately 800 miles of creeks in Santa Clara County, Valley Water has jurisdiction over and manages approximately 275 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 275 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.

Fifty years of flood protection management has significantly reduced the intensity and frequency of flooding in Santa Clara County. By 2005, Valley Water had provided flood protection to 93,253 of the 166,526 parcels in the floodplain and another approximately 10,445 have been protected since then.

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set to sunset in 15 years from the date of implementation, the renewed Safe, Clean Water Program will continue unless repealed by voters or if the Board determines the funding is no longer needed.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)

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 Interstate 880
- Guadalupe River-Downtown, Interstate 880 to Interstate 280

Major Capital Improvements Identified in the CIP

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

Coyote Watershed

Major Capital Improvements Completed

- Coyote Creek, San Francisco Bay to Montague Expressway
- Lower Penitencia Creek, Coyote Creek to Tasman Drive
- Lower Silver Creek, Coyote Creek to Cunningham Avenue (Reaches 1-6)
- Cunningham Flood Detention Certification
- Berryessa Creek, Calaveras Boulevard to Interstate 680 (2012 Safe, Clean Water)

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
- Lower Silver Creek, Interstate 680 to Cunningham Avenue, (Reaches 4-6)
- 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-Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River
- 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)
- Watershed Asset Rehabilitation Program

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 2024-28 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, which 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.

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.

Significant Project Updates from the Prior Year Listed here are the changes to projects from the CIP Adopted FY 2023-27 Five-Year Plan:

- The Palo Alto Flood Basin Tide Gate Structure Improvements Project decreased in cost by \$27.105 million. Per Board direction on January 10, 2023, the project will be put on hold. However, staff will continue to perform annual structural inspections, structural assessments, and will work with the USACE to try and have the tide gate structure replacement work incorporated into the San Francisco Bay Shoreline Project led by the USACE. Additionally, staff will evaluate the potential to pursue and implement a lesser scope interim seismic retrofit and rehabilitation project to ensure continued operation of the existing tide gate structure.
- The Permanente Creek, San Francisco Bay to Foothill Expressway increased in cost by \$2.602 million due to unexpected delays coordinating with Google, acquiring permits from City of Mountain View, volatile market conditions, and unforeseen real estate costs. The schedule completion date has been extended by two years.
- The San Francisquito Flood Protection Project (San Francisco Bay to Middlefield Road, Constuction) decreased in cost by \$2.349 million due to construction costs associated with channel widening and top-ofbank-improvements. The schedule has been extended

- by one year to accommodate coordination with other agencies, as well as acquiring state and federal regulatory permits.
- The Sunnyvale East and West Channels (E2) decreased in cost by \$12.445 million. Per Board direction on January 24, 2023, it was noted that infrastructure construction projects in the Safe, Clean Water Program are experiencing significant cost increases and impacting the financial health of the Safe, Clean Water Fund (Fund 26). To improve the financial health of Fund 26, on January 24, 2023, the Board held a Public Hearing on Proposed Modifications to Projects under Priorities D and E of the Safe, Clean Water and Natural Flood Protection Program. Following the close of the Public Hearing, the Board approved the staff recommendation and modified the Project E2 funding allocation to construct Sunnyvale West Channel (Phase 1), and putting funding for Sunnyvale East Channel (Phase 2) construction to be determined and reallocating Sunnyvale East Channel construction-related planned expenditures to the Fund 26 Operating and Capital Reserves.
- The Coyote Creek, Montague Expressway to Tully Road (E1) increased in cost by \$161.890 million due the design phase being extended to account for the time required to complete CEQA & NEPA requirements needed for the project. The right(s)-of-way, construction, and close-out phases are being extended to align with the extension of the design phase. The construction activities end in fiscal year 2028, but the plant establishment period ends in fiscal year 2031. The construction costs have increased as the result design refinement from the planning phase and increased material costs as well as increases in market conditions. The overall project completion date has been extended by five years.
- The Upper Penitencia Creek, Coyote Creek to Dorel Drive (E4) decreased in cost by \$12.989 million. Per Board direction on January 24, 2023, it was noted that infrastructure construction projects in the Safe, Clean Water Program are experiencing significant cost increases and impacting the financial health of the Safe, Clean Water Fund (Fund 26). To improve the financial

health of Fund 26 on January 24, 2023, the Board held a Public Hearing on Proposed Modifications to Projects under Priorities D and E of the Safe, Clean Water and Natural Flood Protection Program. Following the close of the Public Hearing, the Board modified the funding allocation for Project E4 and reallocated construction-related planned expenditures for the Upper Penitencia Creek, Coyote Creek to Dorel Drive (E4) to Fund 26 Operating and Capital Reserves.

 The Llagas Creek-Upper, USACE Coordination Project is being constructed in phases. The Phase 2B portion of the project is being funded through a grant from NRCS. In order to track grant funding and expenditures a separate project number was created for Phase 2B and the associated planned expenditures were removed from the USACE Coordination Project, resulting in a decrease in cost by \$80 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 EIA's 1-4 and Planning and Design for EIA's 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 Interstate 680 (2012 Safe, Clean Water)

For more information about the Safe, Clean Water Program visit valleywater.org. Please see Appendix C for the implementation schedule for the Renewed Program.



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 2022-23.

Flood Protection Capital Improvements (\$K)

PROJECT NAME	Through FY22	FY23*	FY23 Unspent	FY24	FY25	FY26	FY27	FY28	FY29-38	TOTAL
LOWER PENINSULA WATERSHED										
Palo Alto Flood Basin Tide Gate Structure Replacement	7,537	-	443	-	412	456	477	498	2,849	12,229
Permanente Creek, SF Bay to Foothill Expressway	112,731	2,493	-	481	22	-		-		115,726
San Francisquito Creek, SF Bay thru Searsville Dam (E5)	75,778	-	10,971	4,917	25,433	9,955	447	455	121	117,107
WEST VALEY WATERSHED										
Sunnyvale East and West Channels (E2)	37,471	931	9,481		13,785	5,513	238			57,938
GUADALUPE WATERSHED										
Guadalupe River Tasman Dr - I-880	5,613			1,342	1,100	32,465	31,238	31,338		103,096
Guadalupe River–Upper, I-280 to Blossom Hill Road (E8)	135,204	30	20,519		_		17,928	19,113	4,342	176,617
COYOTE WATERSHED										
Berryessa Creek, Calaveras Boulevard to Interstate 680	53,264	-	11,465	1,147	-	-	-	-	-	54,411
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	135,771	1,907	3,221	345	257	-	-	-	34,478	172,757
Coyote Creek, Montague Expressway to Tully Road (E1)	18,857	6,373	2,199	1,604	14,439	99,497	79,982	3,364	603	224,719
Lower Penitencia Ck Improvements, Coyote Ck to Berryessa Ck	26,718	8,150		78	82	86	-	-	-	35,113
Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	101,498	52	1,967	-	-	-	-	-	-	101,550
Upper Penitencia Creek, Coyote Creek to Dorel Drive	23,029	-	4,060	-	-	-	-	-	-	23,029
UVAS ITAGAS WATERSHED										
Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	6,947		2,287	-	2,124	3,452	358		-	12,880
Llagas Creek–Upper, Buena Vista Avenue to Llagas Road (E6)	232,896	16,885	27,537	22,421	56,756	11,485	-	-	-	340,443
MULTIPLE WATERSHEDS										
San Francisco Bay Shoreline (E7)	107,674	18,697	1	6,548	4,451	26,162	9,779	6,480	-	179,791
Watersheds Asset Rehabilitation Program	50,273	6,741		8,387	6,645	6,858	9,849	10,181	77,979	176,913
TOTAL	1,131,261	62,259	94,151	47,269	125,505	195,928	150,296	71,429	120,372	1,904,319
	LOWER PENINSULA WATERSHED Palo Alto Flood Basin Tide Gate Structure Replacement Permanente Creek, SF Bay to Foothill Expressway San Francisquito Creek, SF Bay thru Searsville Dam (E5) WEST VALEY WATERSHED Sunnyvale East and West Channels (E2) GUADALUPE WATERSHED Guadalupe River Tasman Dr - I-880 Guadalupe River-Upper, I-280 to Blossom Hill Road (E8) COYOTE WATERSHED Berryessa Creek, Calaveras Boulevard to Interstate 680 Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd Coyote Creek, Montague Expressway to Tully Road (E1) Lower Penitencia Ck Improvements, Coyote Ck to Berryessa Ck Lower Silver Creek, I-680 to Cunningham (Reach 4-6) Upper Penitencia Creek, Coyote Creek to Dorel Drive UVAS LLAGAS WATERSHED Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River Llagas Creek-Upper, Buena Vista Avenue to Llagas Road (E6) MULTIPLE WATERSHEDS San Francisco Bay Shoreline (E7) Watersheds Asset Rehabilitation Program	PROJECT NAME PROJECT NAME PROJECT NAME Palo Alto Flood Basin Tide Gate Structure Replacement 7,537 Permanente Creek, SF Bay to Foothill Expressway 112,731 San Francisquito Creek, SF Bay thru Searsville Dam (E5) 75,778 WEST VALEY WATERSHED Sunnyvale East and West Channels (E2) 37,471 GUADALUPE WATERSHED Guadalupe River Tasman Dr - I-880 5,613 Guadalupe River-Upper, I-280 to Blossom Hill Road (E8) 135,204 COYOTE WATERSHED Berryessa Creek, Calaveras Boulevard to Interstate 680 53,264 Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd 135,771 Coyote Creek, Montague Expressway to Tully Road (E1) Lower Penitencia Ck Improvements, Coyote Ck to Berryessa Ck Lower Silver Creek, I-680 to Cunningham (Reach 4-6) 101,498 Upper Penitencia Creek, Coyote Creek to Dorel Drive 23,029 UVAS LLAGAS WATERSHED Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River Llagas Creek-Upper, Buena Vista Avenue to Llagas Road (E6) MULTIPLE WATERSHEDS San Francisco Bay Shoreline (E7) 107,674	LOWER PENINSULA WATERSHED Palo Alto Flood Basin Tide Gate Structure Replacement 7,537 - Permanente Creek, SF Bay to Foothill Expressway 112,731 2,493 San Francisquito Creek, SF Bay thru Searsville Dam (E5) 75,778 - WEST VALEY WATERSHED Sunnyvale East and West Channels (E2) 37,471 931 GUADALUPE WATERSHED Guadalupe River Tasman Dr - I-880 5,613 - Guadalupe River-Upper, I-280 to Blossom Hill Road (E8) 135,204 30 COYOTE WATERSHED Berryessa Creek, Calaveras Boulevard to Interstate 680 53,264 - Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd 135,771 1,907 Coyote Creek, Montague Expressway to Tully Road (E1) 18,857 6,373 Lower Penitencia Ck Improvements, Coyote Ck to Berryessa 26,718 8,150 Ck Lower Silver Creek, I-680 to Cunningham (Reach 4-6) 101,498 52 Upper Penitencia Creek, Coyote Creek to Dorel Drive 23,029 - UVAS LLAGAS WATERSHED Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River Llagas Creek-Upper, Buena Vista Avenue to Llagas Road (E6) 232,896 16,885 MULTIPLE WATERSHEDS San Francisco Bay Shoreline (E7) 107,674 18,697 Watersheds Asset Rehabilitation Program 50,273 6,741	LOWER PENINSULA WATERSHED Palo Alto Flood Basin Tide Gate Structure Replacement 7,537 - 443 Permanente Creek, SF Bay to Foothill Expressway 112,731 2,493 - 10,971 WEST VALEY WATERSHED Sunnyvale East and West Channels (E2) 37,471 931 9,481 GUADALUPE WATERSHED Guadalupe River Tasman Dr - 1-880 5,613 Guadalupe River-Upper, 1-280 to Blossom Hill Road (E8) 135,204 30 20,519 COYOTE WATERSHED Berryessa Creek, Calaveras Boulevard to Interstate 680 53,264 - 11,465 Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd 135,771 1,907 3,221 Coyote Creek, Montague Expressway to Tully Road (E1) 18,857 6,373 2,199 Lower Penitencia Ck Improvements, Coyote Ck to Berryessa 26,718 8,150 - Ck Lower Silver Creek, I-680 to Cunningham (Reach 4-6) 101,498 52 1,967 Upper Penitencia Creek, Coyote Creek to Dorel Drive 23,029 - 4,060 UVAS LLAGAS WATERSHED Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River Llagas Creek-Lower, Buena Vista Avenue to Llagas Road (E6) MULTIPLE WATERSHEDS San Francisco Bay Shoreline (E7) 107,674 18,697 1 Watersheds Asset Rehabilitation Program 50,273 6,741	PROJECT NAME	PROJECT NAME FY22 FY23 Unspent FY24 FY25	COMER PENINSULA WATERSHED	Processor Proc	COMER PENINSULA WATERSHED	Name

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

Flood Protection - Funding Sources (\$K)

Fund Number	FUND NAME	Through FY22	FY23	FY23 Unspent	FY24	FY25	FY26	FY27	FY28	FY29-38	TOTAL
12	Watershed Stream Stewardship Fund	452,732	35,235	7,918	12,968	10,697	60,121	41,922	42,017	106,782	762,473
26	Safe, Clean Water and Natural Flood Protection Fund	678,529	27,024	86,233	34,301	114,808	135,807	108,374	29,412	13,590	1,141,846
	TOTAL	1,131,261	62,259	94,151	47,269	125,505	195,928	150,296	71,429	120,372	1,904,319

^{*}FY 2023 Adjusted Budget includes adopted budget plus budget adjustments.

FY 2022-23 Funds to be reappropriated

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Project Palo Alto Flood Basin Tide

Gate Structure Replacement

Flood Protection - Lower Program

Peninsula Watershed

Project No. 10394001

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



View from the west side of the Palo Alto tide gates facing east

PROJECT DESCRIPTION

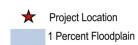
This project plans and designs a replacement tide gate structure for the Palo Alto Flood Basin to accomplish the following objectives:

Phase 1

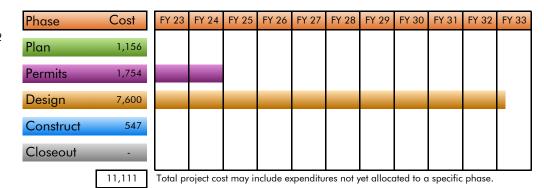
- Retrofit the existing tide gate structure to reduce seismic vulnerabilities
- · Rehabilitate the existing tide gate structure to extend the service life of the structure

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





November 2018 to August 2032



EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures							
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future	
10394001-Palo Alto Flood Basin Tide Gate Structure Replacement	5,363	1,731	418	400	400	400	400	1,999	11,111
with inflation	5,363	1,731	418	437	456	477	498	2,848	12,229

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent		Pla	nned Fund	ling Reque	ests		Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
10394001-Palo Alto Flood Basin Tide Gate Structure Replacement	7,537	0	443	0	412	456	477	498	2,848	12,229

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	12,229
Other Funding Sources	0
Total	12,229

OPERATING COST IMPACTS

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

USEFUL LIFE: 50 Years

Project Permanente Creek, San

Francisco Bay to Foothill

Expressway

Flood Protection - Lower Program

Peninsula Watershed

Project No. 10244001s

Contact Bhavani Yerrapotu

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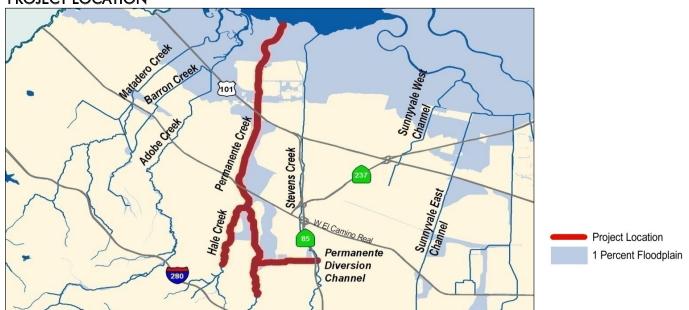
McKelvey Ball Park upon completion in February 2020

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, and the diversion structure between Permanente and Stevens Creeks, to accomplish the following objectives:

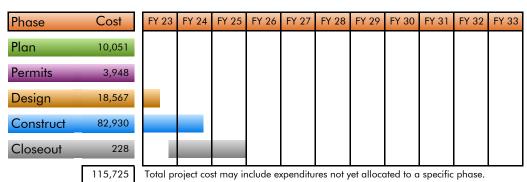
- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway
- Provide environmental 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 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.



July 2001 to June 2025

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



EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru		Planned Expenditures									
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future	ı			
10244001-Permanente Ck, S.F. Bay to Foothill Expwy – Lower Peninsula Fund	17,669	2,637	21	20	0	0	0	0	20,347			
with inflation	17,669	2,637	21	22	0	0	0	0	20,348			
26244001-Permanente Ck, S.F. Bay to Foothill Expwy	94,408	510	460	0	0	0	0	0	95,378			
with inflation	94,408	510	460	0	0	0	0	0	95,378			
TOTAL	112,077	3,147	481	20	0	0	0	0	115,725			
with inflation	112,077	3,147	481	22	0	0	0	0	115,726			

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent		Pla	nned Fund	ling Requ	ests		Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
10244001-Permanente Ck, S.F. Bay to Foothill Expwy – Lower Peninsula Fund	17,813	2,493	0	21	22	0	0	0	0	20,348
26244001-Permanente Ck, S.F. Bay to Foothill Expwy	94,918	0	0	460	0	0	0	0	0	95,378
TOTAL	112,731	2,493	0	481	22	0	0	0	0	115,726

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	94,355
City of Mountain View	1,023
Total	115,726

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: 30+ Years

III-10 :: 2024–2028 Five-Year Capital Improvement Program

Project San Francisquito Creek,

San Francisco Bay through

Searsville Dam (E5)

Flood Protection - Lower **Program**

Peninsula Watershed

Project No. 10284007s

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



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

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.

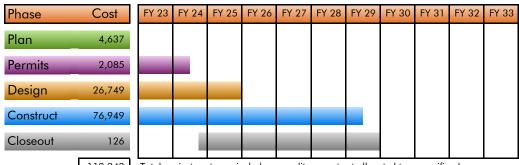
This project is accounted for in the following:

- 10284007 S.F. Bay-Searsville Dam Completed
- 10284008 Early Implementation Completed
- 26284001 S.F. Bay-Searsville Dam Completed
- 26284002 S.F. Bay to Middlefield Road, 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.



June 2003 to June 2029



112,343

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

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru		Planned Expenditures									
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future				
10284007-San Francisquito Ck, S.F. Bay-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-Searsville Dam	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, Construction	50,702	2,016	15,888	22,369	8,445	375	365	93	100,254			
with inflation	50,702	2,016	15,888	25,433	9,955	447	455	121	105,018			
TOTAL	62,791	2,016	15,888	22,369	8,445	375	365	93	112,343			
with inflation	62,791	2,016	15,888	25,433	9,955	447	455	121	117,107			

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent		Pla	nned Fund	ling Requ	ests		Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
10284007-San Francisquito Ck, S.F. Bay-Searsville Dam	4,064	0	0	0	0	0	0	0	0	4,064
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, S.F. Bay-Searsville Dam	6,411	0	0	0	0	0	0	0	0	6,411
26284002-San Francisquito Ck - S.F. Bay to Middlefield Road, Construction	63,689	0	10,971	4,917	25,433	9,955	447	455	121	105,018
TOTAL	75,778	0	10,971	4,917	25,433	9,955	447	455	121	117,107

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)	30,031
Total	117,107
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.

OPERATING COST IMPACTS

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

USEFUL LIFE: 30+ Years

Project Sunnyvale East and West

Channels Flood Protection

Project (E2)

Flood Protection – West Valley Program

Watershed

Project No. 26074002

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



Sunnyvale West Channel looking south at Carl Road

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% riverine 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 acomplish the following objectives:

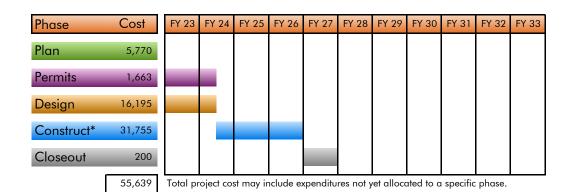
- Provide 1% flood capacity for approximately 6.4 miles of channel along Sunnyvale East and approximately three miles of channel along Sunnyvale West within the City of Sunnyvale, protecting 1,618 properties (Sunnyvale East) and 47 acres (11 properties) of industrial land (Sunnyvale West)
- · Improve 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.



March 2006 to June 2027

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



EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru		Planned Expenditures								
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future			
26074002-Sunnyvale East and West Channels Flood Protection Project (E2)	21,419	7,502	7,533	14,100	4,887	200	0	0	55,639		
with inflation	21,419	7,502	7,533	15,733	5,513	238	0	0	57,937		

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

` ' /										
	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
26074002-Sunnyvale East and West Channels Flood Protection Project (E2)	37,471	931	9,481	0	13,785	5,513	238	0	0	57,937

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	57,937
Other Funding Source	0
Total	57,937

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.

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: 30+ Years

Project Guadalupe River, Tasman

Dr. to I-880

Flood Protection - Guadalupe Program

Watershed

Project No. 30154019

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



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

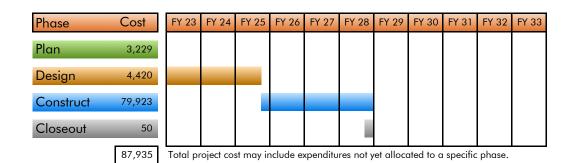
PROJECT DESCRIPTION

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



March 2019 to April 2028



EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures								
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future		
30154019-Guadalupe River, Tasman Dr. to I-880	3,427	2,186	1,342	1,007	27,407	26,283	26,283	0	87,935	
with inflation	3,427	2,186	1,342	1,100	32,465	31,238	31,338	0	103,096	

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
30154019-Guadalupe River, Tasman Dr. to I-880	5,613	0	0	1,342	1,100	32,465	31,238	31,338	0	103,096

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	103,096
Other Funding Sources	0
Total	103,096

OPERATING COST IMPACTS

Operating cost impacts will be determined during the design phase.

USEFUL LIFE: 30 Years

Project Guadalupe River-Upper,

Interstate 280 to Blossom

Hill Road (E8)

Program Flood Protection – Guadalupe

Watershed

Project No. 26154001s

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



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

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:

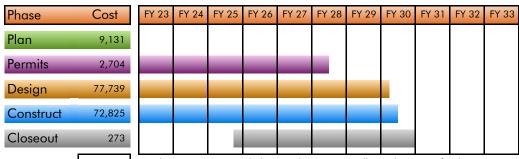
- 26154001 Fish Passage Modification Completed
- 26154002 I-280 to Southern Pacific Railroad Bridge, Reach 6 Completed
- 26154003 Southern Pacific Railroad Bridge to Blossom Hill Road, Reaches 7-12: The USACE is conducting a General Re-Evaluation Report, which is expected to be completed in fiscal year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



September 1985 to June 2031

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



166,631

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

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures									
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future			
26154001-Guadalupe Rv—Upr, Fish Passage Mods	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 (R6)	34,622	31	31	30	30	30	200	2,015	36,990		
with inflation	34,622	31	31	33	34	36	249	2,650	37,687		
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	68,636	888	314	100	8,725	22,940	16,000	1,500	119,103		
with inflation	68,636	888	314	109	10,086	27,294	19,113	1,953	128,393		
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		
TOTAL	113,796	919	345	130	8,755	22,970	16,200	3,515	166,631		
with inflation	113,796	919	345	142	10,120	27,330	19,362	4,603	176,618		

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	35,267	30	644	0	0	0	0	0	2,390	37,687
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	89,399	0	19,875	0	0	0	17,928	19,113	1,953	128,393
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	0	7,887
TOTAL	135,204	30	20,519	0	0	0	17,928	19,113	4,343	176,618

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	130,142
State of California	29,885
City of San José	4,591
Total	176,618

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

Project Berryessa Creek, Calaveras

Boulevard to Interstate 680

Flood Protection - Coyote Program

Watershed

Project No. 26174041s

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



Berryessa Creek near flood stage at Piedmont Road in San José

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.



January 2000 to June 2024

Phase	Cost	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33
Plan	8,322											
Permits	1,854											
Design	14,019											
Construct	29,550											
Closeout	320											
	54,412	Total pi	roject co	st may ir	nclude e	xpenditu	res not y	et alloc	ated to a	specific	phase.	

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals								
	Thru		Pla	nned Exp	enditures				Total
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future	
26174041-Berryessa Creek, USACE Coordination	23,731	398	12,612	0	0	0	0	0	36,741
with inflation	23,731	398	12,612	0	0	0	0	0	36,741
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
TOTAL	41,402	398	12,612	0	0	0	0	0	54,412
with inflation	41,402	398	12,612	0	0	0	0	0	54,412

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent			Total				
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
26174041-Berryessa Creek, USACE Coordination	35,594	0	11,465	1,147	0	0	0	0	0	36,741
26174042-Berryessa Creek, LERRDs	17,670	0	0	0	0	0	0	0	0	17,670
TOTAL	53,264	0	11,465	1,147	0	0	0	0	0	54,411

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	18,811
State of California	25,600
Department of Water Resources (Prop 1E)	10,000
Total	54,411
USACE - In-kind Services	13,600

OPERATING COST IMPACTS

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

USEFUL LIFE: 30+ Years

Project Berryessa Creek, Lower

> Penitencia Creek to Calaveras Boulevard (E3)

Flood Protection - Coyote Program

Watershed

Project No. 40174004s

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



Berryessa Creek upstream of the confluence with Lower Penitencia Creek

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 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.



March 2001 to June 2041

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



155,141

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

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru		Pla	inned Expe	enditures				Total
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future	ı
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard (E3), Phase 1	46,860	110	0	0	0	0	0	0	46,970
with inflation	46,860	110	0	0	0	0	0	0	46,970
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard (E3), Phase 2	84,753	2,734	345	235	0	0	0	0	88,067
with inflation	84,753	2,734	345	257	0	0	0	0	88,088
40C40397-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard (E3), Phase 3	0	0	0	0	0	0	0	14,954	14,954
with inflation	0	0	0	0	0	0	0	25,954	25,954
26C40420-Phase 3 Planning/Design (only)	0	0	0	0	0	0	0	5,150	5,150
with inflation	0	0	0	0	0	0	0	8,523	8,523
TOTAL	131,614	2,844	345	235	0	0	0	20,104	155,141
with inflation	131,614	2,844	345	257	0	0	0	34,477	169,535

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	·							Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard (E3), Phase 1	50,191	0	3,221	0	0	0	0	0	0	50,191
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard (E3), Phase 2	85,580	1,907	0	345	257	0	0	0	0	88,088
40C40397-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard (E3), Phase 3	0	0	0	0	0	0	0	0	25,954	25,954
26C40420-Phase 3 Planning/Design (only)	0	0	0	0	0	0	0	0	8,523	8,523
TOTAL	135,771	1,907	3,221	345	257	0	0	0	34,477	172,756

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds planned expenditures by approximately \$3,221,000. Excess funds will be returned to Fund Reserves at the close of the project.

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	157,756
SCVWD Safe, Clean Water Fund	8,523
Department of Water Resources (Prop 1E)	15,000
Total	172,756

OPERATING COST IMPACTS

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

USEFUL LIFE: 30+ Years

Project Coyote Creek, Montague

Expressway to Tully Road

(E1)

Flood Protection - Coyote Program

Watershed

Project No. 26174043

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



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

PROJECT DESCRIPTION

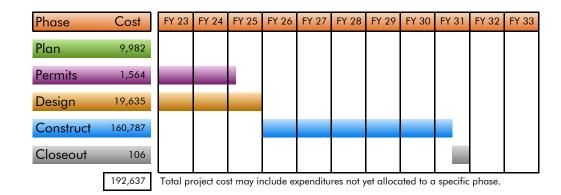
This project plans, designs, and constructs improvements along approximately nine miles of Coyote Creek, from Montague Expressway to Tully Road, to accomplish the following objectives:

- 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.



November 2017 to June 2031



EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru		Planned Expenditures								
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future			
26174043-Coyote Creek, Montague Expressway to Tully Road (E1)	18,201	4,830	3,803	12,877	84,200	65,602	2,694	430	192,637		
with inflation	18,201	4,830	3,803	14,439	99,497	79,982	3,364	602	224,718		

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent		Pla	nned Fund	ling Reque	ests		Total
Project	FY22	FY23		FY24	FY25	FY26	FY27	FY28	Future	
26174043-Coyote Creek, Montague Expressway to Tully Road (E1)	18,857	6,373	2,199	1,604	14,439	99,497	79,982	3,364	602	224,718

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	224,718
Other Funding Sources	0
Total	224,718

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.

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

Project Lower Penitencia Creek

Improvements, Coyote Creek

to Berryessa Creek

Flood Protection - Coyote Program

Watershed

Project No. 40334005

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



Lower Penitencia Creek, looking downstream from Milmont Drive

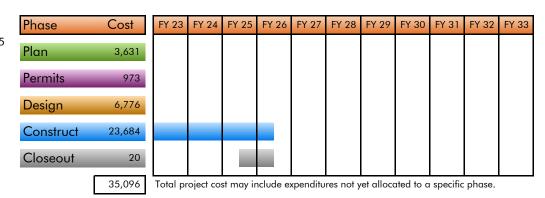
PROJECT DESCRIPTION

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



October 2010 to December 2025



EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru		Planned Expenditures									
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future				
40334005-Lower Penitencia Creek Improvements, Coyote Creek to Berryessa Creek	26,107	8,761	78	75	75	0	0	0	35,096			
with inflation	26,107	8,761	78	82	86	0	0	0	35,113			

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

(5554.145 \$)										
	Budget Thru	Adj. Budget	Est. Unspent		Plai	nned Fund	ling Requ	ests		Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
40334005-Lower Penitencia Creek Improvements, Coyote Creek to Berryessa Creek	26,718	8,150	0	78	82	86	0	0	0	35,113

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	30,113
Department of Water Resources (Prop 1E)	5,000
Total	35,113

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

Project Lower Silver Creek, I-680

to Cunningham Avenue

(Reaches 4-6)

Flood Protection - Coyote Program

Watershed

Project No. 40264008s

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



Lower Silver Creek looking downstream from Moss Point

PROJECT DESCRIPTION

This project is part of a flood control project that partners with the Natural Resource Conservation Service to plan, design and construct improvements along approximately 2.3 miles of Lower Silver Creek, from Interstate 680 to Lake Cunningham. This project includes elements that are eligible for reimbursement from the state and federal governments to accomplish the following objectives:

- Increase flood protection to 3,800 parcels in the surrounding area
- Allow for on-site mitigation of project impacts, and in some cases enhancement of existing habitat values by increased wetlands and riparian habitat
- Improve vehicle and pedestrian bridges crossing Lower Silver Creek
- Develop with the City of San José the footprint for a future trail project between Capitol Avenue-Frontage Road and Jackson Avenue that ensures pedestrians and bicyclists may travel beneath the Dobern Pedestrian Bridge

This project is accounted for in the following:

- 40264007 I-680 to N. Babb Creek, Reach 4 Planning Completed
- 40264008 I-680 to Cunningham Avenue, Reaches 4-6 (Non-reimbursable)
- 40264012 Lands, Easements, Rights-of-Way, Relocations and Disposal, Reaches 4-6 (Reimbursable) Completed



August 2008 to June 2023

Planning and Design phases are complete.

Phase	Cost	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33
Plan	6,309											
Permits	235											
Design	10,924											
Construct	80,028											
Closeout	26											
ſ	99,583	Total project cost may include expenditures not yet allocated to a specific phase.										

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures									
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future			
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	2,371		
with inflation	2,371	0	0	0	0	0	0	0	2,371		
40264008-Lower Silver Creek, R4-6 (Non-reimbursable)	95,232	52	0	0	0	0	0	0	95,284		
with inflation	95,232	52	0	0	0	0	0	0	95,284		
40264012-Lower Silver Creek, LERRDs, R4-6	1,928	0	0	0	0	0	0	0	1,928		
with inflation	1,928	0	0	0	0	0	0	0	1,928		
TOTAL	99,531	52	0	0	0	0	0	0	99,583		
with inflation	99,531	52	0	0	0	0	0	0	99,583		

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	•								
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future		
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	0	2,371	
40264008-Lower Silver Creek, R4-6 (Non-reimbursable)	97,199	52	1,967	0	0	0	0	0	0	97,251	
40264012-Lower Silver Creek, LERRDs, R4-6	1,928	0	0	0	0	0	0	0	0	1,928	
TOTAL	101,498	52	1,967	0	0	0	0	0	0	101,550	

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$1,967,000. Excess funding will be returned to reserves upon project completion.

FUNDING SOURCES

(in thousands \$)

	Total	101,550
California Department of Water Resources		24,000
Natural Resource Conservation Service - ARRA		20,676
State of California and City of San José		8,750
SCVWD Watershed Stream Stewardship Fund		48,124

OPERATING COST IMPACTS

The operating cost impacts are estimated to be \$230,000 per year, beginning in FY20.

USEFUL LIFE: 50+ Years

III-28 :: 2024–2028 Five-Year Capital Improvement Program

Project Upper Penitencia Creek,

Coyote Creek to Dorel

Drive (E4)

Flood Protection - Coyote Program

Watershed

Project No. 40324003s

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



Flooding at King Road on Upper Penitencia Creek

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.



July 2000 to June 2025

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

Phase	Cost	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33
Plan	8,635											
Permits	861											
Design	8,493											
Construct*	1,479											
Closeout	-											
Г	19.797	Total pr	niect co	st may ir	ocluda a	rnenditu	res not v	et alloc	ated to a	specific	nhase	

EXPENDITURE SCHEDULE

(in thousands \$)

(in mousands \$)												
	Actuals Thru		Planned Expenditures									
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	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	2,723	4,470	418	410	0	0	0	0	8,021			
with inflation	2,723	4,470	418	447	0	0	0	0	8,058			
TOTAL	14,499	4,470	418	410	0	0	0	0	19,797			
with inflation	14,499	4,470	418	447	0	0	0	0	19,834			

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, USACE Coordination	9,467	0	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	0	2,309
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	11,253	0	4,060	0	0	0	0	0	0	11,253
TOTAL	23,029	0	4,060	0	0	0	0	0	0	23,029

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$3,194,000. 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
Total	23,029

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 occuring in 2063.

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

Project Llagas Creek-Lower,

> Capacity Restoration, Buena Vista Avenue to

Pajaro River

Flood Protection – Uvas/Llagas Program

Project No. 50284010

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org

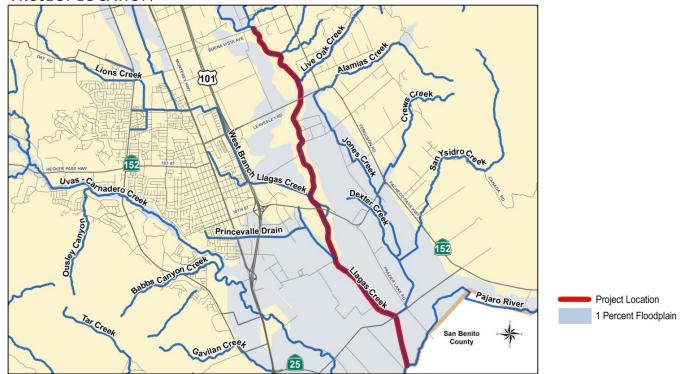


Lower Llagas Creek near the Pajaro River

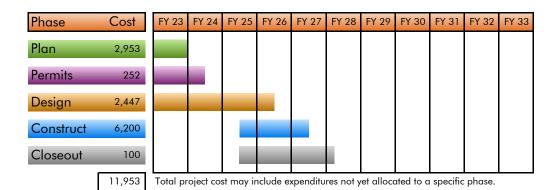
PROJECT DESCRIPTION

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



September 2008 to July 2027



EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru	Planned Expenditures								
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future		
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River	3,354	1,306	993	3,000	3,000	300	0	0	11,953	
with inflation	3,354	1,306	993	3,418	3,452	358	0	0	12,880	

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River	6,947	0	2,287	0	2,124	3,452	358	0	0	12,880

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	11,760
State of California	1,120
Total	12,880

OPERATING COST IMPACTS

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

USEFUL LIFE: 30+ Years

Project Llagas Creek-Upper,

Buena Vista Avenue to

Llagas Road (E6)

Flood Protection - Uvas/Llagas **Program**

Watershed

Project No. 26174051s

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



Llagas Creek floods at Watsonville Road and the surrounding area

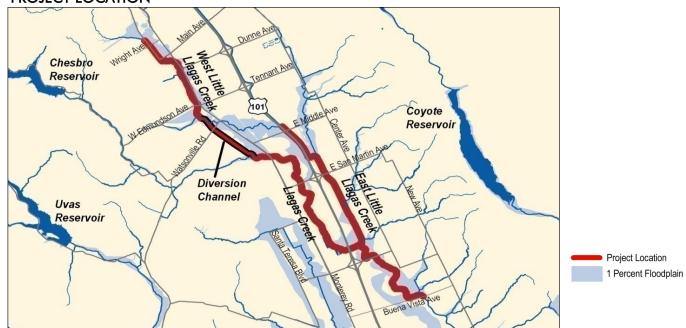
PROJECT DESCRIPTION

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:

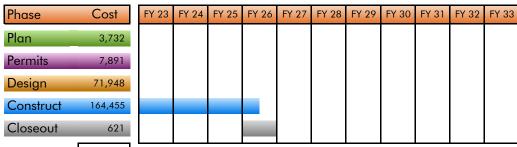
- 26174051 Reaches 4-8 & 14 Lands, Easements, Rights of Way, Relocation, & Disposal (Reimbursable)
- 26174052 Reaches 4-8 & 14 Construction/Coordination with USACE
- 26174053 Technical Studies Completed
- 26174054 Design
- 26174055 Phase 2B Construction

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.



July 2000 to June 2026

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



249,021

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

EXPENDITURE SCHEDULE

(in thousands \$)

	Actuals Thru		Pla	nned Expe	enditures				Total
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future	
26174051-Llagas Ck—Upper, LERRDs	46,388	1,700	21	20	0	0	0	0	48,129
with inflation	46,388	1,700	21	22	0	0	0	0	48,131
26174052-Llagas Ck—Upper, USACE Coordination	128,141	20,898	18,477	4,815	250	0	0	0	172,579
with inflation	128,141	20,898	18,477	5,273	285	0	0	0	173,073
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	22,575	1,097	1,097	1,149	949	0	0	0	26,867
with inflation	22,575	1,097	1,097	1,255	1,083	0	0	0	27,107
26174055-Llagas Ck—Phase 2B Construction	0	0	22,400	50,000	10,000	0	0	0	82,400
with inflation	0	0	22,400	56,000	11,200	0	0	0	89,600
TOTAL	198,550	23,695	19,595	5,984	1,199	0	0	0	249,021
with inflation	198,550	23,695	41,995	62,550	12,568	0	0	0	339,357

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
26174051-Llagas Ck—Upper, LERRDs	48,088	0	0	21	22	0	0	0	0	48,131
26174052-Llagas Ck—Upper, USACE Coordination	155,169	16,885	23,016	0	734	285	0	0	0	173,073
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	4,521	0	0	0	0	0	0	28,193
26174055-Llagas Ck—Phase 2B Construction	0	0	0	22,400	56,000	11,200	0	0	0	89,600
TOTAL	232,896	16,885	27,537	22,421	56,756	11,485	0	0	0	340,443

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately \$1,086,000. 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	169,652
SCVWD Watershed Stream Stewardship Fund	23,690
State of California	34,425
City of Morgan Hill	4,090
NRCS Grants (Unsecured)	89,600
Total	339,357
USACE - In-kind Services	65,000

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

Project San Francisco Bay

Shoreline (E7)

Flood Protection - Multiple Program

Watersheds

Project No. 00044026s

Contact Bhavani Yerrapotu

byerrapotu@valleywater.org



Restoration of tidal marshland in the San Francisco Bay

PROJECT DESCRIPTION

The Shoreline Project area is broken up into eleven economic impact analysis (EIA) areas 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

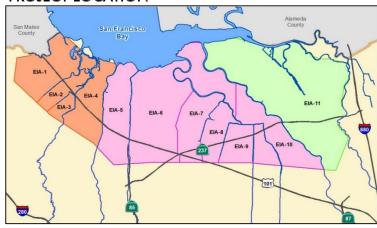
This project partners with the California Coastal Conservancy, U.S. Army Corps of Engineers (USACE) and key stakeholders to conduct an integrated, multi-objective project along the San Francisco Bay Shoreline to accomplish the following objectives:

- 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

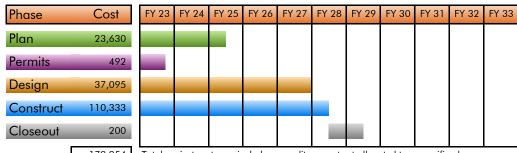
This project is accounted for in the following:

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



July 2005 to December 2028



172,254

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

EXPENDITURE SCHEDULE (in thousands \$)

	Actuals Thru		Planned Expenditures								
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future			
00044026-San Francisco Bay Shoreline	78,871	19,639	2,796	51	14,149	0	0	0	115,506		
with inflation	78,871	19,639	2,796	56	16,805	0	0	0	118,166		
62044042-Shoreline, Early Implementation	359	0	0	0	0	0	0	0	359		
with inflation	359	0	0	0	0	0	0	0	359		
26444001-EIA 11, Design & Partial Construction	17,516	0	0	0	0	0	0	0	17,516		
with inflation	17,516	0	0	0	0	0	0	0	17,516		
26444002-EIAs 1-4	4,696	2,709	2,708	1,025	5,200	5,200	5,200	0	26,738		
with inflation	4,696	2,709	2,708	1,119	5,934	6,201	6,480	0	29,847		
26444004-EIAs 5-9	0	2,090	1,045	3,000	3,000	3,000	0	0	12,135		
with inflation	0	2,090	1,045	3,276	3,423	3,578	0	0	13,412		
TOTAL	101,442	24,438	6,549	4,076	22,349	8,200	5,200	0	172,254		
with inflation	101,442	22,348	5,504	1,175	22,739	6,201	6,480	0	179,301		

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total	
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
00044026-San Francisco Bay Shoreline	82,618	15,892	0	2,796	56	16,805	0	0	0	118,166
62044042-Shoreline, Early Implementation	359	0	0	0	0	0	0	0	0	359
26444001-EIA 11, Design & Partial Construction	17,516	0	0	0	0	0	0	0	0	17,516
26444002-EIAs 1-4	5,646	1,760	1	2,707	1,119	5,934	6,201	6,480	0	29,847
26444004-EIAs 5-9	1,045	1,045	0	1,045	3,276	3,423	3,578	0	0	13,412
TOTAL	107,184	18,697	1	6,548	4,451	26,163	9,779	6,480	0	179,301

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

SCVWD Watershed Stream Stewardship Fund	5,593				
SCWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)					
SCVWD Safe, Clean Water and Natural Flood Protection Fund					
California Department of Water Resources					
SFBRA Measure AA (Grant)					
SFBRA Measure AA (Ballot Reimbursement)					
State of California					
Total	179,301				
Federal Partners, South Bay Salt Ponds (SBSP)	48,470				
State, SBSP	14,720				
Foundations, Packard-Hewlett-Goldman-Moore, SBSP	17,060				
Coastal Conservancy, Shoreline					
Federal, USACE, Shoreline	8,990				
Total Partnership Funding for In-kind Services	91,250				

OPERATING COST IMPACTS

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

USEFUL LIFE: 50+ Years

III-36 :: 2024–2028 Five-Year Capital Improvement Program

Project Watersheds Asset

Rehabilitation Program

Flood Protection - Multiple Program

Watersheds

Project No. 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

PROJECT DESCRIPTION

This project plans, designs, and constructs repairs to levee and stream bank sites that have erosion damage. Each site requires a different type of repair based on location, severity, and velocities in the creek. The objective of this project is to restore the stream bank or levee to a stable condition so as to reduce the risk of flooding and/or damage to adjacent properties and facilities. For facilities with animal conflict damage, the objective is to repair the damage caused by animals and where applicable, install deterrents for future animal activities. The repair work consists of, but is not limited to:

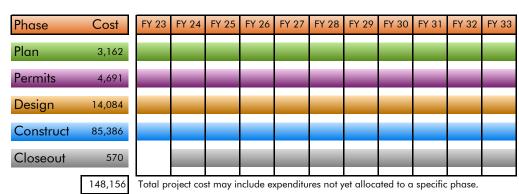
- Excavation and rebuilding of eroded soil material
- Installation of rodent barriers such as mesh or fabric
- Repairing the banks with methods commensurate with the extents of damage and environmental constraints
- Geomorphic channel restoration with bed and bank repair
- Outfall restoration and repair
- Sediment removal and blockage repair
- Fish ladder modifications and repairs

PROJECT LOCATION



★ Project Location

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



EXPENDITURE SCHEDULE

(in thousands \$)

(III Medianias V)									
	Actuals Thru	Planned Expenditures							
Project	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Future	
62084001-Watersheds Asset Rehabilitation Program	42,536	14,478	8,387	5,845	5,835	8,100	8,100	54,875	148,156
with inflation	42,536	14,478	8,387	6,645	6,858	9,849	10,181	77,979	176,913

Actuals include project expenditures and encumbrances.

FUNDING SCHEDULE

(in thousands \$)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total	
Project	FY22	FY	23	FY24	FY25	FY26	FY27	FY28	Future	
62084001-Watersheds Asset Rehabilitation Program	50,273	6,741	0	8,387	6,645	6,858	9,849	10,181	77,979	176,913

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands \$)

	Total	176,913
City of Palo Alto (Matadero Creek)		442
SCVWD Watershed Stream Stewardship Fund		176,913

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