

District – United States Army Corps of Engineers (USACE) Partnership Flood Protection Projects

Project status - Fiscal Year 2016-2017

SCVWD Board of Directors
& USACE Staff

April 11, 2017

Santa Clara Valley
Water District



**US Army Corps
of Engineers** ®
San Francisco District

Proposed FY18 Federal Funding Request

Project/Program Name	USACE District	District Involvement	Fiscal Year 2016 Work Plan	Fiscal Year 2017 Administration Budget Request	Fiscal Year 2018 Request
Upper Guadalupe River Project	San Francisco	As the Local Sponsor	\$0	\$1.2 million	\$72 million
South San Francisco Bay Shoreline Study*	San Francisco	As a Co-Local Sponsor	\$3 million	\$550,000	\$15.4 million
Coyote/Berryessa Creek Project	San Francisco	As the Local Sponsor	\$20 million	funded through completion	funded through completion
San Francisquito Creek Flood Project*	San Francisco	As a member of the San Francisquito Creek Joint Powers Authority as the Local Sponsor	\$100,000	\$471,000	\$471,000
Llagas Creek Project	San Francisco	As the Local Sponsor	\$0	negotiating MOU to use contributed funds	\$0

*Interjurisdictional Project/Program

Upper Guadalupe River

From I-280 to Blossom Hill Road – 5.5 miles

Objectives

- Provide 100-yr flood protection to nearly 7,000 parcels
- Preserve and improve wildlife and fisheries habitat
- Provide opportunity for a continuous 6-mile trail

Schedule

- | | |
|---|-----------|
| ▪ Revised 65% vehicular bridges (P&S) | completed |
| ▪ GWIWG Review of 65% vehicular bridges | Mar 2017 |
| ▪ 100% Design of vehicular bridges | Apr 2017 |
| ▪ Reach 10B & 12 Planting | Dec 2017 |
| ▪ Revised 95% Reaches 7&8 Channel (P&S) | TBD |
| ▪ 100% Reaches 7&8 Channel (P&S) | TBD |



Upper Guadalupe River

From I-280 to Blossom Hill Road – 5.5 miles

Updates

Reaches 7 & 8 Channel Design: Design team met with USFWS, NMFS, and RWQCB on Feb 1. Team is working to resolve comments on channel design. Optimal schedule is to award construction of channel work in 2018.

Reaches 7 & 8 65% Vehicular Bridge Designs: Designs submitted to GWIG in February with comments due at end of March. Aim is to obtain bridge design approvals prior to channel design approval, in order to help position the bridges for 2018 construction.

GWIG Coordination: Obtaining concurrence from GWIG on Reaches 7 & 8 bridges and channel designs has posed to be a significant challenge. Team cannot pursue actions that are outside of the USACE authorized plan.



Estimated Total Project Cost

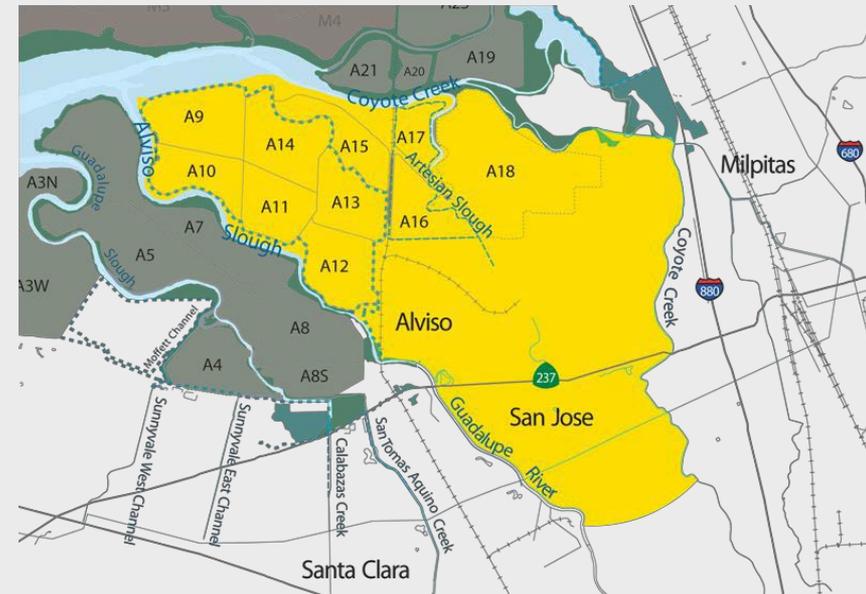
Fed:	\$188 million
SCVWD:	\$105 million
Total:	\$293 million

South SF Bay Shoreline Study – EIA 11

North San Jose and Alviso – 4 miles

Objectives

- Protect area from up to 100-yr tidal events including for sea level rise thru year 2067
- Restore 2,900 acres of tidal marsh habitat for federally endangered species and migratory birds
- Provide public access and recreational opportunities



Schedule

- | | |
|--|-----------|
| ▪ Chief's Report signed | Dec 2015 |
| ▪ Design Agreement signed | July 2016 |
| ▪ Reach 1 Levee Design begins | Oct 2016 |
| ▪ Environmental Permits way forward | July 2017 |
| ▪ Reach 1 Levee Design completed | Dec 2017 |
| ▪ Reach 1 Levee Const. award (pend. funds) | May 2018 |

South SF Bay Shoreline Study – EIA 11

North San Jose and Alviso – 4 miles

Updates

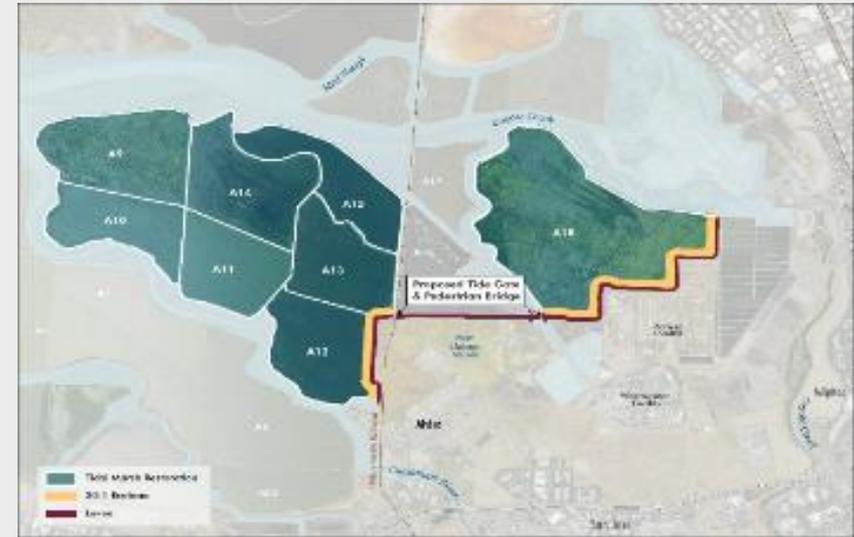
Environmental Approval: RWQCB had provided a letter of support, but no permit, as the design has not been completed.

Team will meet with RWQCB on March 30 to discuss their concerns on:

- Pond A18 levee alignment
- Zero net loss policy, and
- Artesian Slough Crossing

Team needs RWQCB buy-in by July 17 to not impact design schedule.

Federal Funding: USACE needs construction funds in FY18 budget to begin construction in May 2018. SPD has prioritized this as a new start for construction funds.



Estimated Total Design & Const Cost

Fed:	\$70.3 million
SCC:	\$44 million
<u>SCVWD:</u>	<u>\$59.7 million</u>
Total:	\$174 million

Upper Berryessa Creek

From Calaveras Blvd to I-680 – 2.2 miles

Objectives

- Provide 100-yr flood protection to 650 parcels and Milpitas Bart Station
- Provide recreational opportunities in Cities of Milpitas and San Jose



Schedule

- | | |
|-------------------------|----------|
| ■ Award Contract | Aug 2016 |
| ■ Start Construction | Oct 2016 |
| ■ Restart Construction | Mar 2017 |
| ■ Complete Construction | Dec 2017 |

Upper Berryessa Creek

From Calaveras Blvd to I-680 – 2.2 miles

Updates

2016 Construction: 2016 work was completed on schedule with ~500 feet of channel constructed.

2017 Construction: Construction re-started on March 1 on schedule.

Rain Impacts: The site is saturated and there has been substantial flow in the channel. Despite rain project is still on schedule for December 2017 completion.

2017 Construction: Construction will re-start March 1. The Union Pacific Railroad trestle bridge is planned for replacement in mid-July 2017. Coordination with the railroad continues.



Estimated Total Project Cost

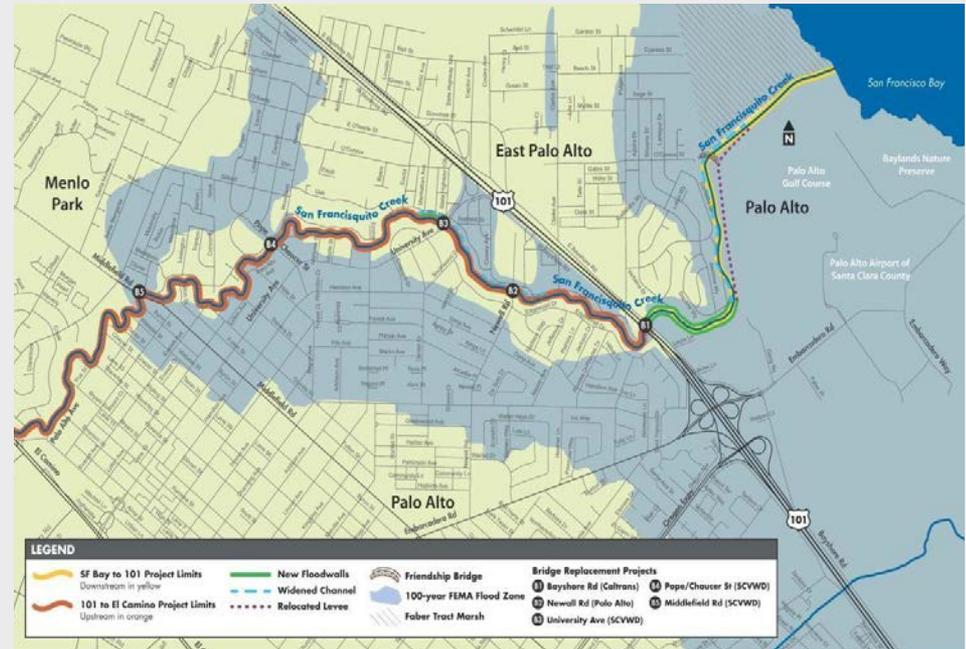
Fed:	\$21.2 million
<u>SCVWD:</u>	<u>\$16 million</u>
Total:	\$37.2 million

San Francisquito Creek

From HWY 101 to El Camino Real – 3.7 miles

Objectives

- Protect more than 3000 homes, schools, businesses from 100-yr flood



Schedule

- Tentatively Selected Plan Aug 2017
- Agency Decision Memo Aug 2018
- Chief's Report February 2020

San Francisquito Creek

From HWY 101 to El Camino Real – 3.7 miles

Updates

3x3x3 Waiver: Waiver Package was submitted to HQ Dec 2016 and has not been reviewed/approved. Proposed Cost has increased by \$193,278. An additional 34 months was requested with proposed completion date of Feb 2020.

SCVWD Funding: SCVWD funds were provided at start of FY17 to meet cost share requirements (\$270,000).

Project Tasks: Project schedule needs to be finalized; project H&H models and economic analysis to continue; impact assessment findings need to be applied; and Tentatively Selected Plan needs to be identified.



Estimated Total Project Cost

Fed:	\$3.2 million
SMFCD:	\$1.5 million
<u>SCVWD:</u>	<u>\$1.5 million</u>
Total:	\$6.2 million

Upper Llagas Creek

Morgan Hill, San Martin, Gilroy Areas – 14 miles

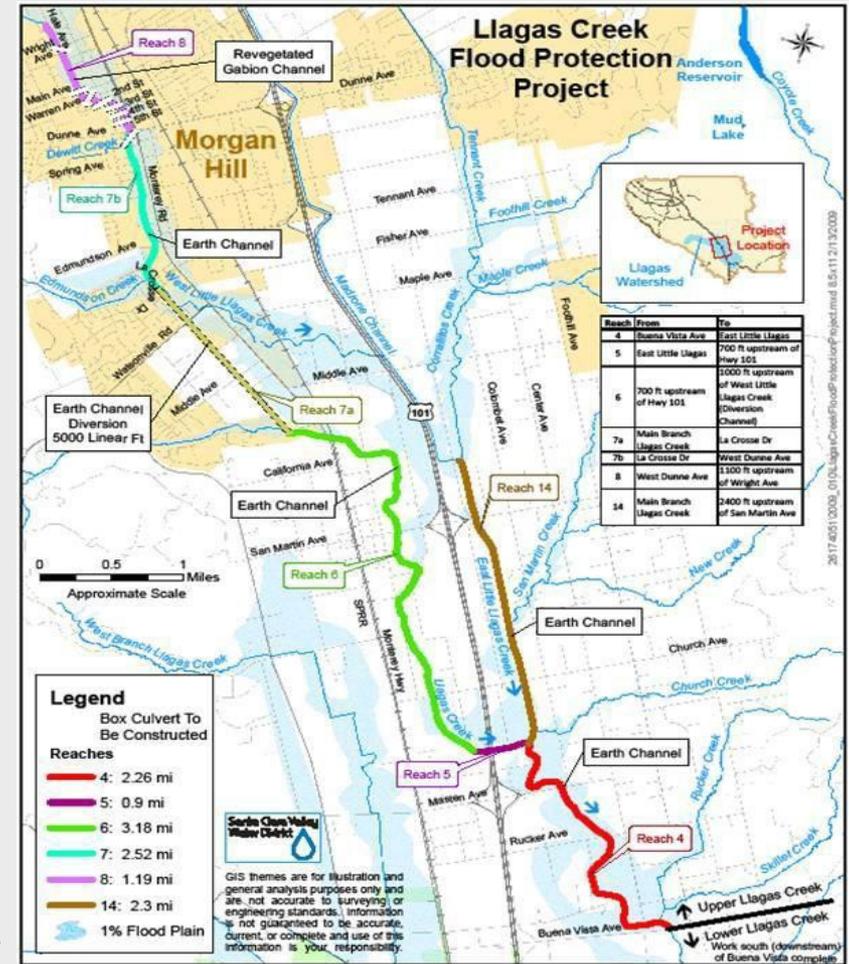
Objectives

- Provide 100-yr flood protection to urban areas of Morgan Hill, San Martin, and Gilroy
- Provide 10-yr flood protection or not induce flooding to agricultural areas of San Martin and Gilroy
- Protect, enhance, or restore the creek ecosystems geomorphically
- Provide opportunities to integrate recreational improvements

Schedule

- Draft Agreement to SCVWD 2015
- Submit Agreement to HQ May 2017
- Update PMP* TBD
- SCVWD approves PMP TBD

*Project Management Plan



Upper Llagas Creek

Morgan Hill Urban Areas – 14 miles

Updates

Funds: A Contributed Funds (CF) agreement would support the completion of a Limited Re-evaluation Report for up to \$810,000.

LRR: The Limited Re-evaluation Report will be an updated Economic Report. The revised scope removed DDR* and EIS/EIR tasks from the CF package; this is not allowable under CF authorization.

Agreement: SCVWD provided comments on the Agreement; USACE deemed comments non-substantive. Re-visited guidance and requirement for PMP in front of CF appears gray. As such will submit Agreement as is to HQ for approval.



Estimated Total Construction Cost (WRDA 2007)

Fed:	\$65 million
<u>SCVWD:</u>	<u>\$40 million</u>
Total:	\$105 million