

Valley Water

Clean Water • Healthy Environment • Flood Protection



Coyote Creek Flood Protection Project

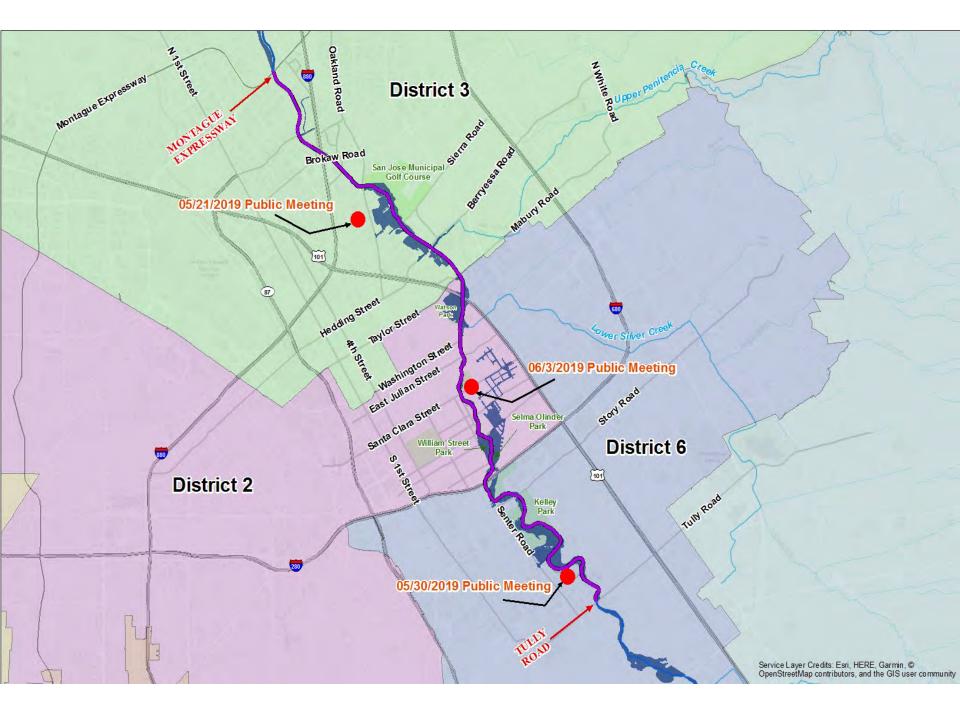
Problem Definition and Refined Project Objectives

May 21st, 2019 Public Meeting San José Conservation Corps 1560 Berger Drive 6:30 – 8:30 pm



Agenda





Flood Risk Reduction Work Since 2017

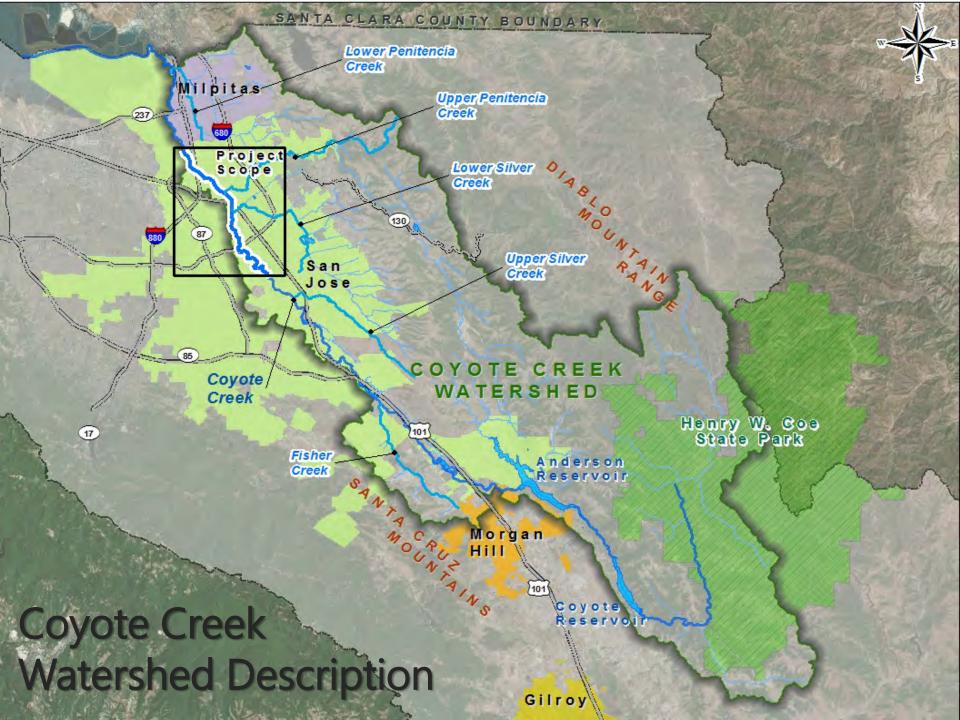




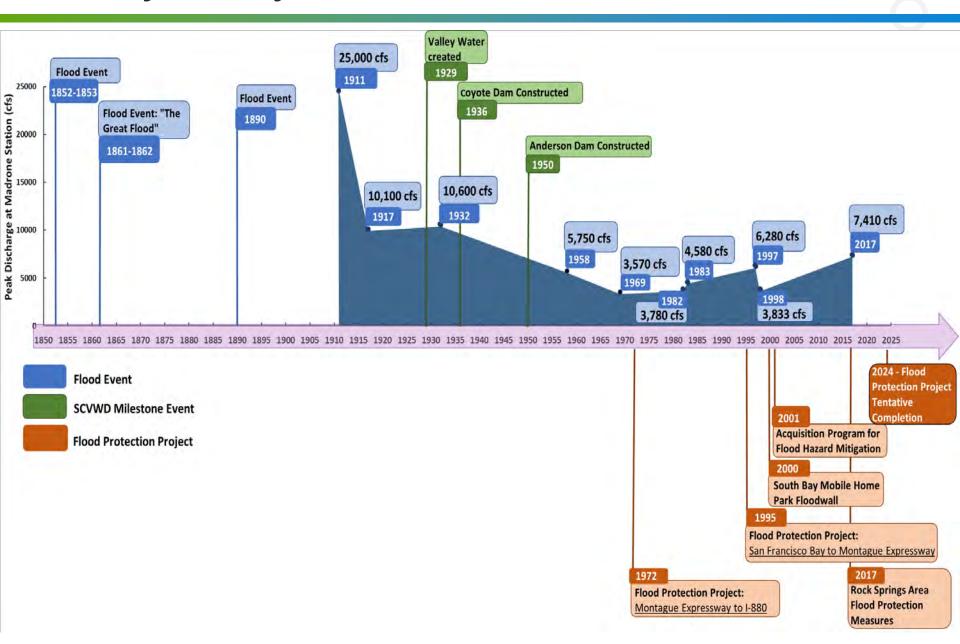








History of Coyote Creek Floods



Flooding History: Santa Clara Street, January 1890

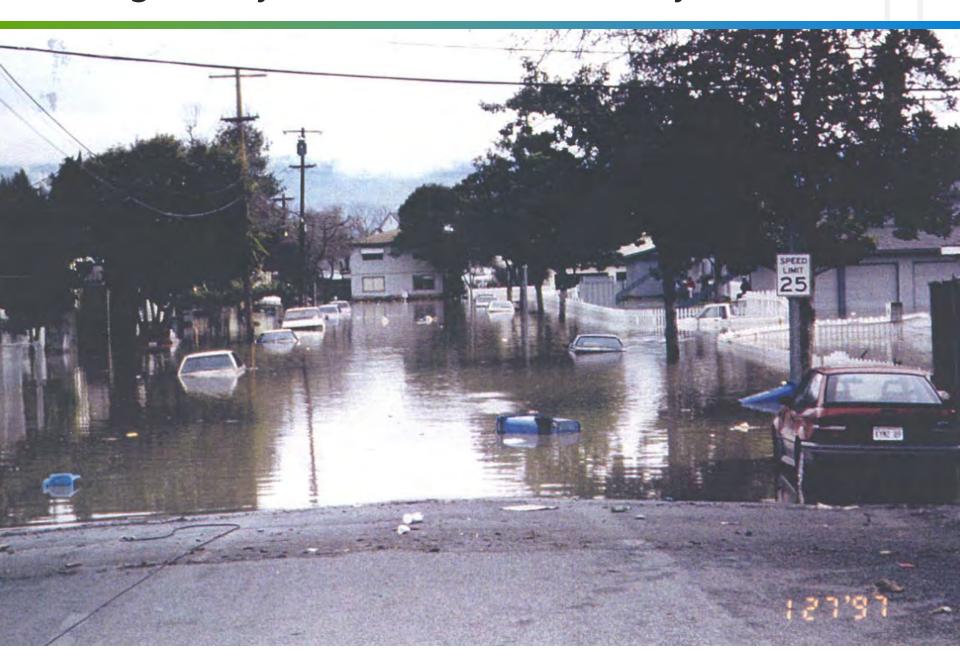


Boating down W. Santa Clara Street, January, 1890

Flooding History: Monterey Road, March 7-9, 1911



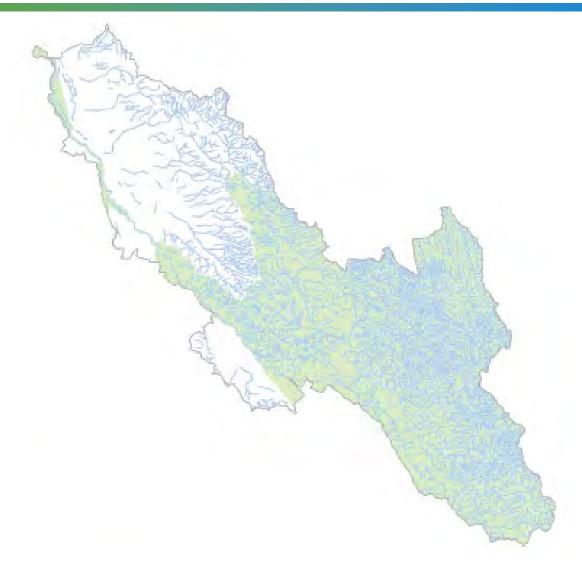
Flooding History: Nordale Avenue, January 27, 1997



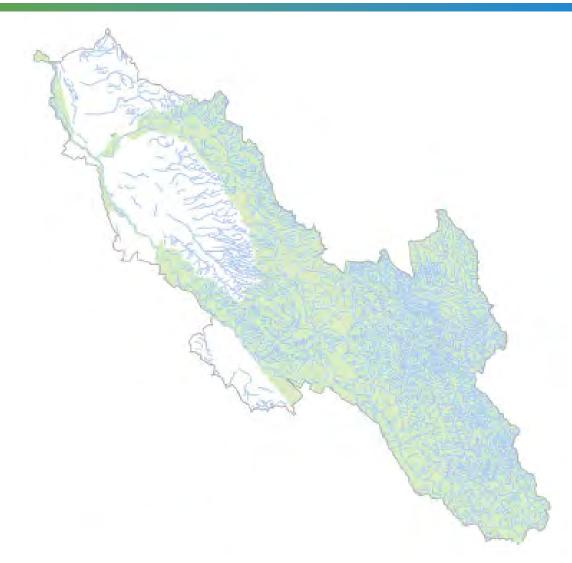
Flooding History: Golden Wheel Mobile Home Park, February 8, 1998



Watershed Modifications - 1800s



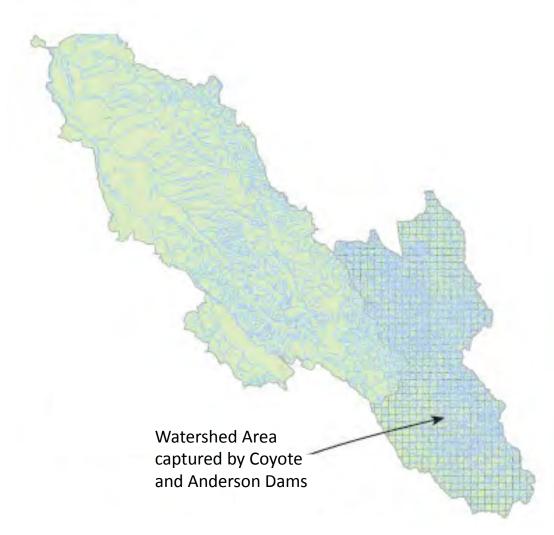
Watershed Modifications - 1852



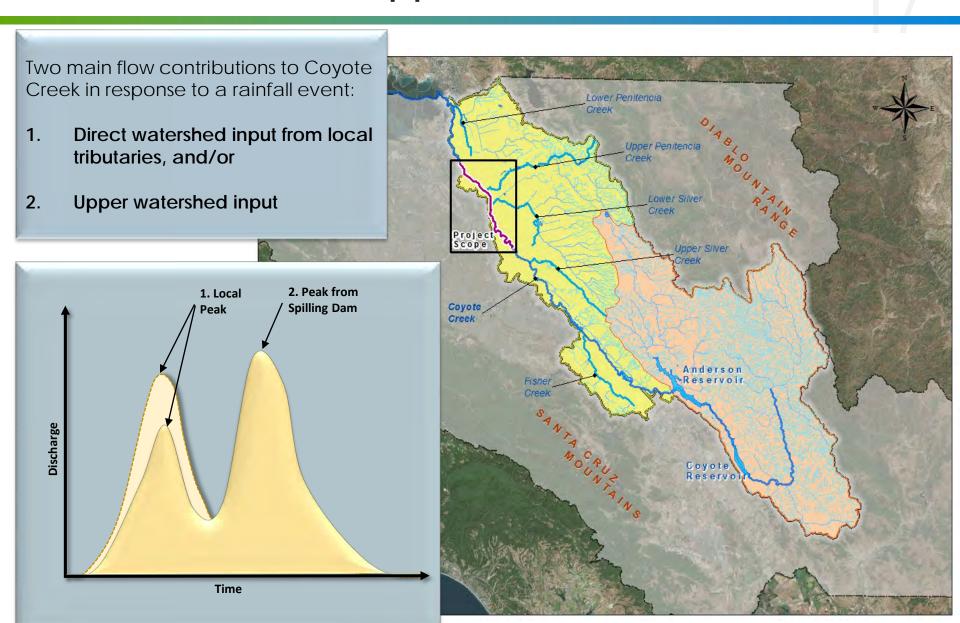
Watershed Modifications - 1895



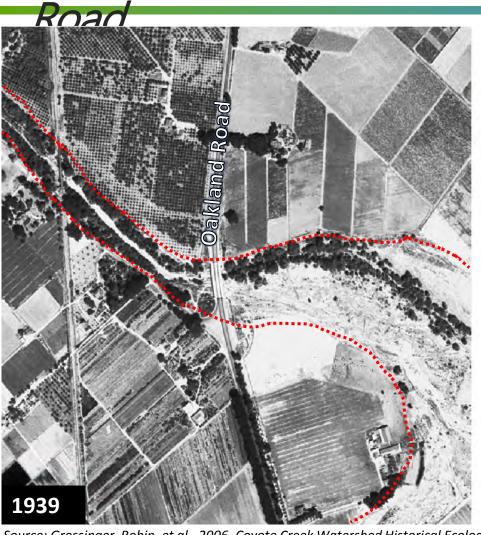
Watershed Modifications - 1950

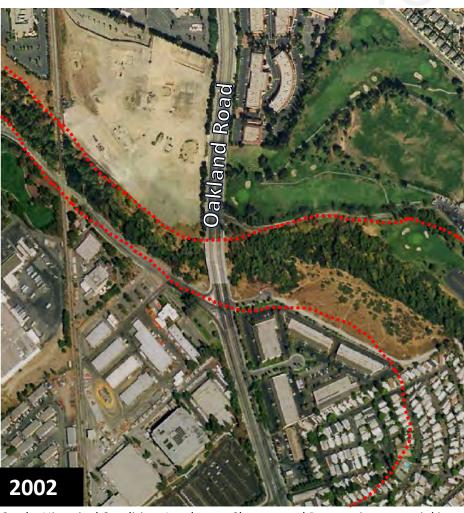


Local Peak versus Upper Watershed Peak



Historical Landscape Conditions – *Oakland*

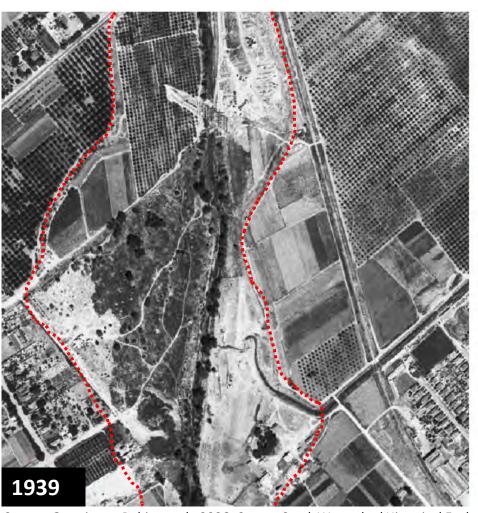




Source: Grossinger, Robin, et al., 2006. Coyote Creek Watershed Historical Ecology Study: Historical Condition, Landscape Change, and Restoration potential in the Eastern Santa Clara Valley, California.



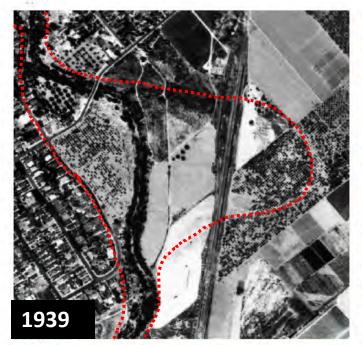
Historical Landscape Conditions – Watson Park





Source: Grossinger, Robin, et al., 2006. Coyote Creek Watershed Historical Ecology Study: Historical Condition, Landscape Change, and Restoration potential in the Eastern Santa Clara Valley, California.



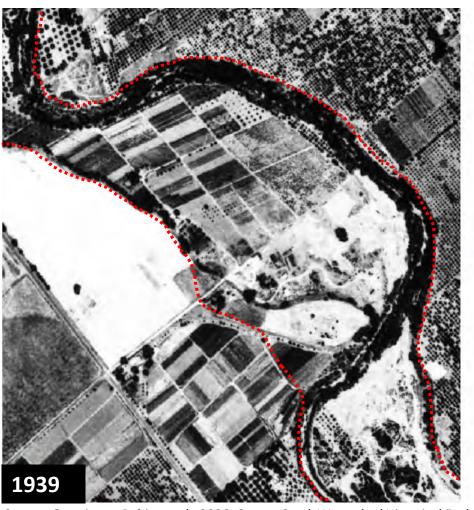






Historical Landscape Conditions William Street Park & Olinder Park

Historical Landscape Conditions – Kelley Park





Source: Grossinger, Robin, et al., 2006. Coyote Creek Watershed Historical Ecology Study: Historical Condition, Landscape Change, and Restoration potential in the Eastern Santa Clara Valley, California.



Peak Flows Summary Results

Location	February 2017 Observed Flows (cfs)	February 2017 if flows confined within channel (cfs)	Upper Watershed Peak Design Storm (cfs)	1% Local Peak Design Storm (cfs)	
I-280	7,250	7,250	7450	3,590	
East William Street	7,200	7,250	7450	3,630	
Berryessa Road	7,550	7,600	8380	8,450	
I-880	7,400	7,600	8400	8,570	



Project History

Coyote Creek Flood Protection

\$32 Million allocated to Mid-Coyote Creek project, 100-year flood protection

2006-2009

Search for additional funding and federal partnership

November 2000

Voters approve Clean, Safe Creeks and Natural Flood Protection Plan

District attempted to obtain additional USACE funding but was not successful

Cost estimated between \$500 Million and \$1 Billion

2011

Mid-Coyote Creek Planning Study completed

2011-2012

Design for downstream reaches initiated

Design paused due to uncertainties of impacts from related projects

Project's remaining budget carries forward

November 2012

Voters approve Safe, Clean Water, and Natural Flood Protection Program

2016 -2017 Winter Season

California experienced precipitation at 190% of average

Coyote Creek overtopped its banks at several locations between Montague Expressway and Tully Road

- Project scope extended
- Change of target protection
- Short-term relief solutions
- Use local funding to complete planning and design phases of near term project
- Identify additional partnerships

July 2017

Modification of original project goals and acceleration of project

Current Coyote Creek Flood Protection Project

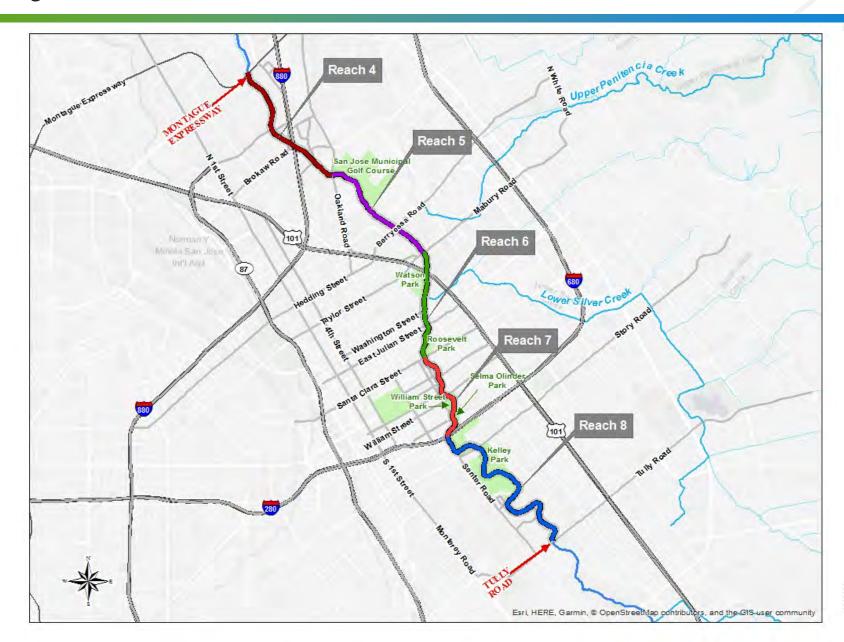
Project Objective:

Reduce Risk of Flooding to a flood event equivalent to the February 2017 event

Additional Project goals:

- Stream Habitat Enhancement
- Improve Water Quality
- Provide for Public Access and Recreation
- Minimize Need for Future Maintenance Activities

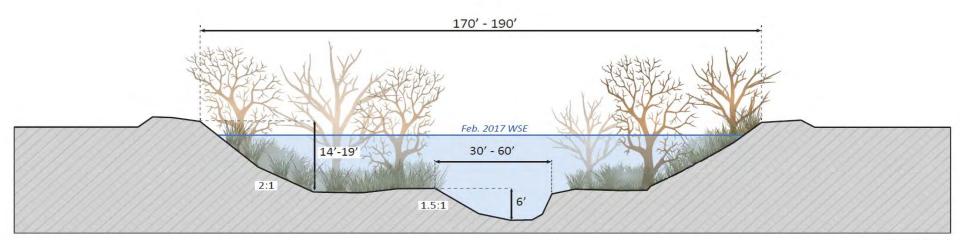
Project Reaches



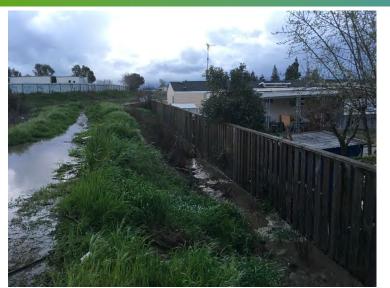
Reach 4: Montague Expressway to Old Oakland Road



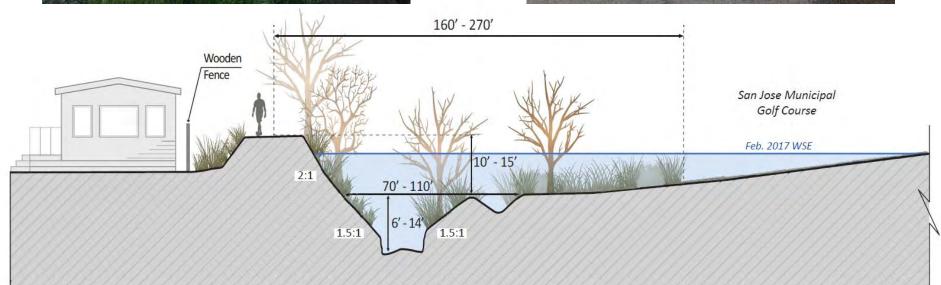




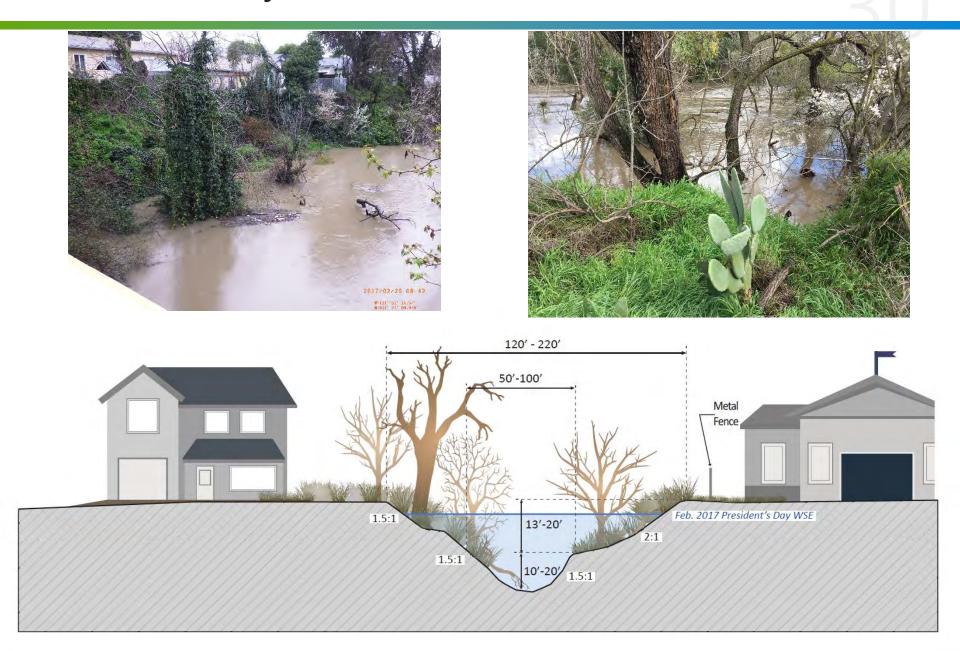
Reach 5: Old Oakland Road to Mabury Road



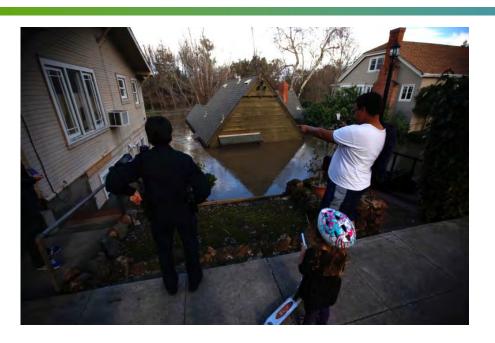




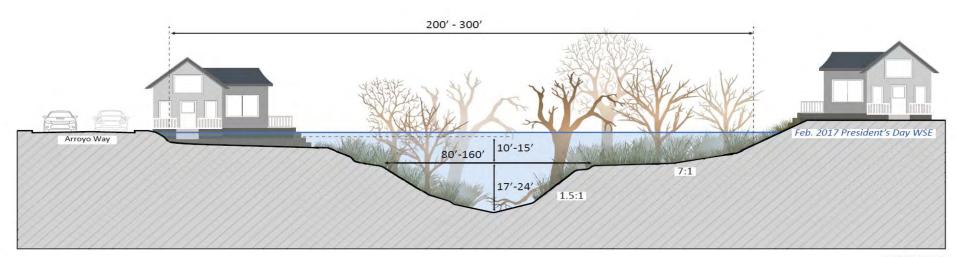
Reach 6: Mabury Road to East Santa Clara Street



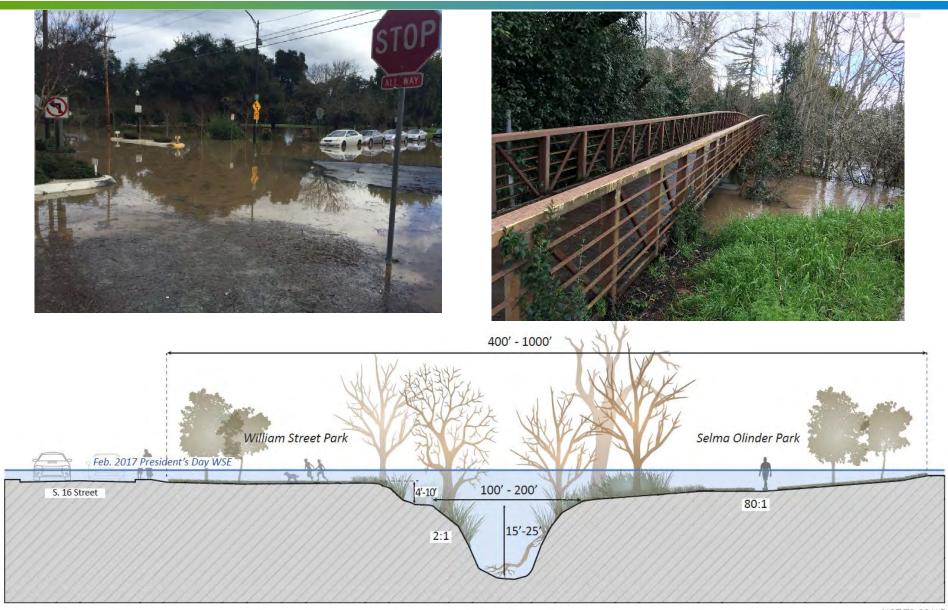
Reach 7: East Santa Clara Street to I-280





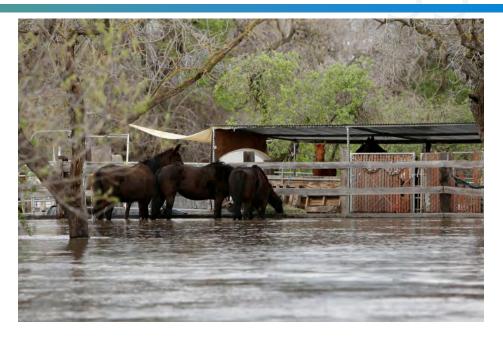


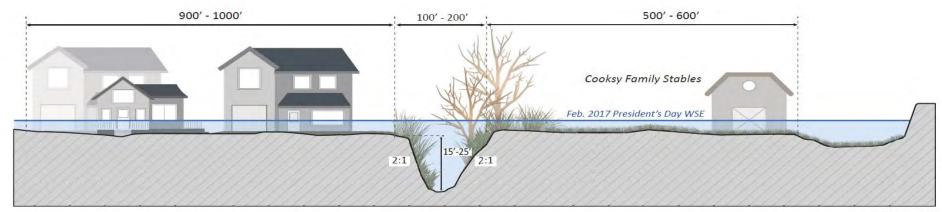
Reach 7: East Santa Clara Street to I-280



Reach 8: I-280 to Tully Road







NOT TO SCALE

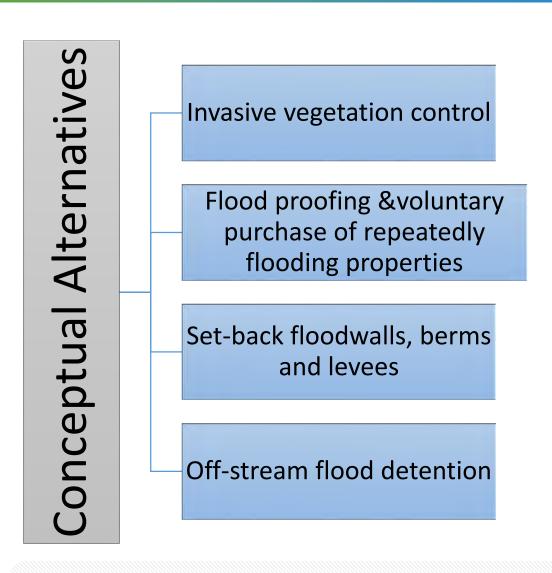
Project Components, Status and Timeline

Expedited Project Timeline: Assumes project alternative selected for implementation does not require extensive permitting

Components	2017	2018	2019	2020	2021	2022	2023	2024
Problem Definition								
Conceptual Alternatives								
Feasible Alternatives								
Planning Study Report								
Design and Permitting								
Construction								



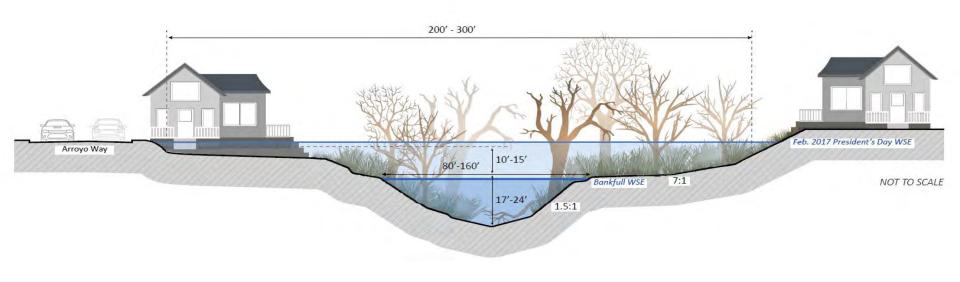
Conceptual Solutions

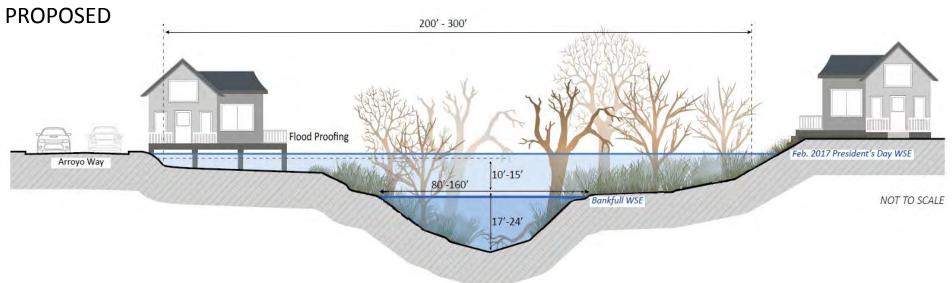




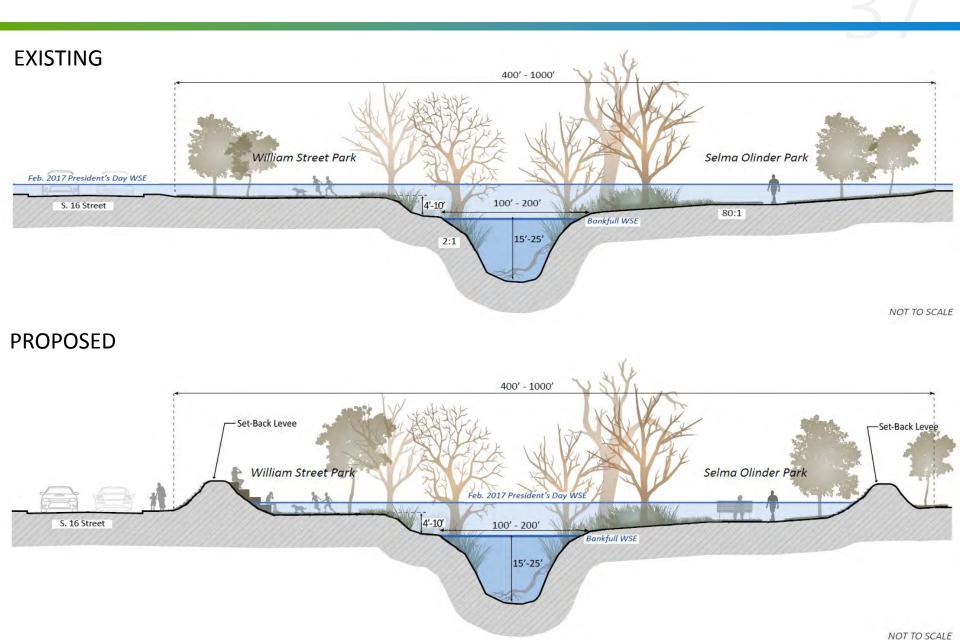
Flood Proofing

EXISTING

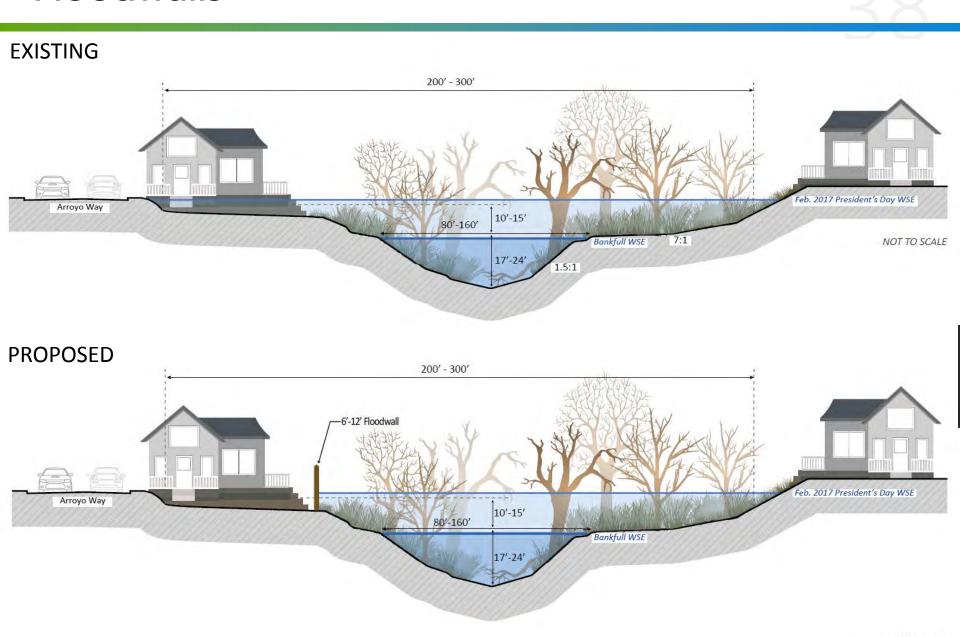




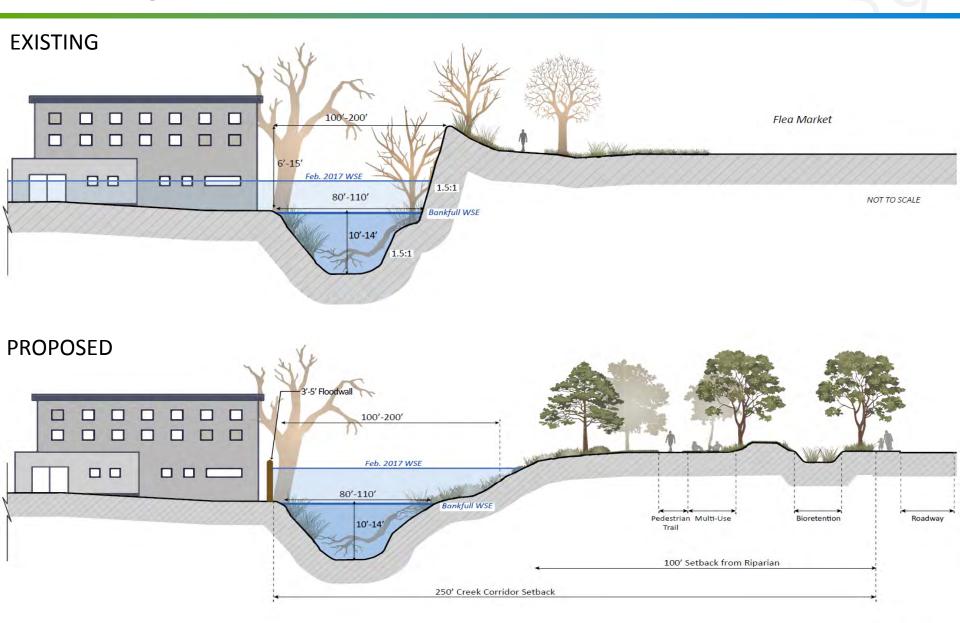
Set-back berms and levees



Floodwalls



Flood protection and additional enhancements



Next Steps

Problem Definition Report: Nov 2017 – Jan 2019 (Draft Completed)

 Public meetings scheduled for the end of May to incorporate public comments and finalize

Conceptual and Feasible Alternatives: Sep 2018 - Sep 2019

Planning Study Report: July 2019 – Jan 2020

Design, CEQA and Permitting: Jan 2020 – Dec 2021

Construction: Jan 2022 – Dec 2024

For more information

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