

LIVING ARROYOS

Working to renew urban stream habitats and reconnect people and the arroyos in their community.

**By: Felisha Walls
Program Coordinator**

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- ▶ San Francisco Bay Regional Water Quality Control Board
 - ▶ SWAMP Protocol: assessed water quality conditions
- ▶ California State University, Stanislaus
 - ▶ M.S., Ecology and Sustainability.
- ▶ San Jose State University
 - ▶ B.S., Environmental Studies



Program Accomplishments

Living Arroyos watershed enhancement and management activities:

- ▶ Urban stream enhancement
- ▶ Trash hotspots
- ▶ Urban stream maintenance
- ▶ Annual Events
- ▶ Swag! (Living Arroyos Apparel)
- ▶ Future Plans

Activities	PROGRAM YEAR		
	2013-14	2014-15	2015-16
Total acorn sites planted	1,386	912	--
Total acorns planted (3 per site)	4,158	2,736	--
Total acorns broadcast onsite	8,400	6,264	--
Total acorns planted in containers (for replanting of acorn sites that did not establish)	3,000	1,000	--
Total acorns collected	17,000	10,000	--
Total oak seedlings planted	--	234	--
Total grass seed spread	--	150 pounds	--
Total willow stakes planted	--	185	556
Total riparian trees planted (excluding willow stakes)	1,770	1,434	129
Total wire cages removed at oak sites	--	--	701
Total oak sites mulched	--	1,446	1,441
Invasive species removed	270 cubic feet	200 cubic feet	360 cubic feet
Trash removed	--	25 cubic feet	240 gallons
Total gallons used to water plants			55,274



Stream Enhancement Activities



Project sites:

- ▶ Arroyo Mocho at Stanley Reach
- ▶ Galaxy Court
- ▶ Touriga Creek
- ▶ Arroyos Las Positas at Airway
- ▶ Arroyo Seco Oak Replacement Project



Stream Enhancement Activities: Arroyo Mocho at Stanley Reach (Livermore)

STANLEY REACH RESTORATION PROJECT | Proposed riparian plantings

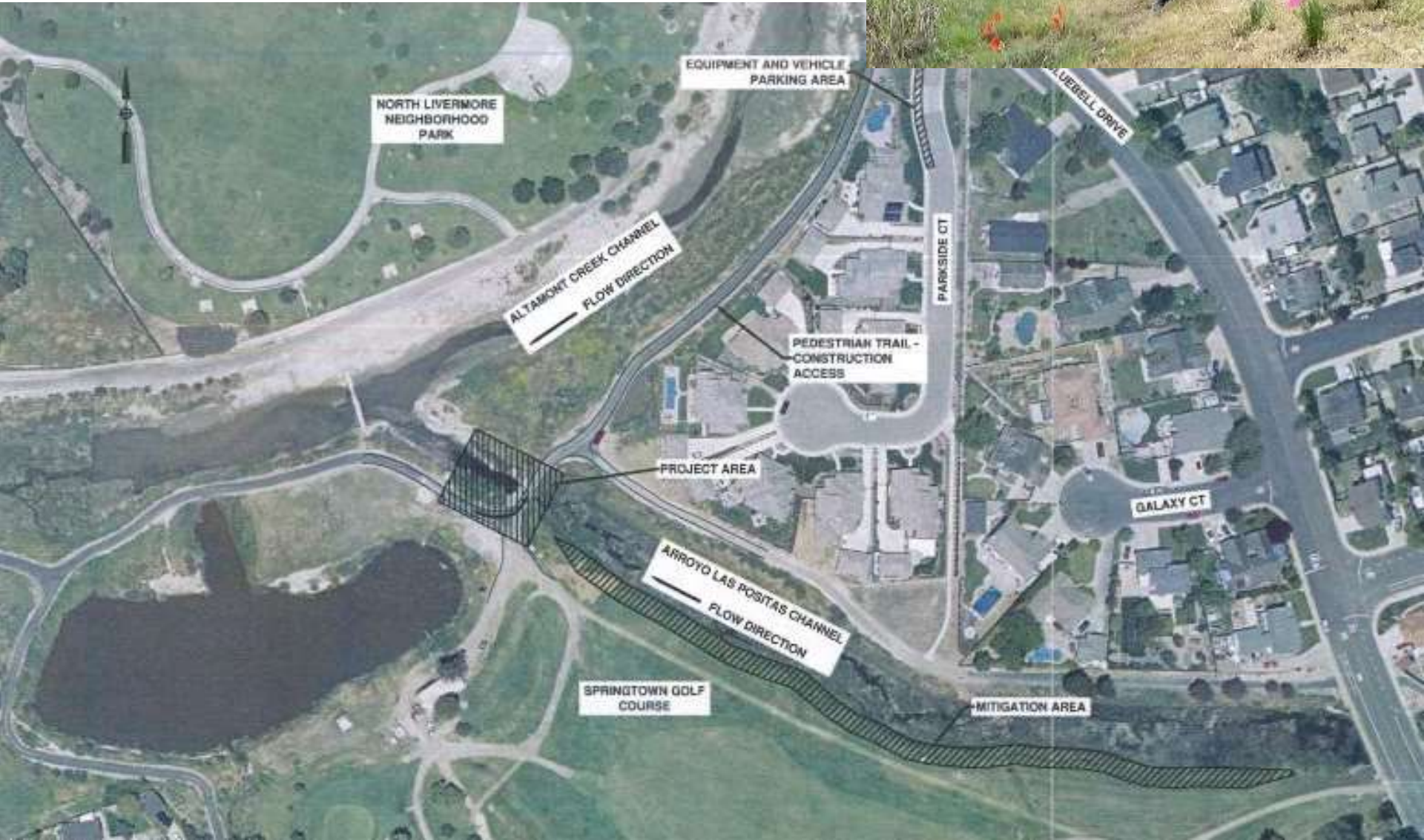
EXISTING CONDITIONS



FUTURE CONDITIONS



Stream Enhancement Activities: Galaxy Court (Livermore)



Stream Enhancement Activities: Touriga Creek (Pleasanton)



Before



Living Arroyos Pride



After



Trash Removal



GeniusKids group of San Ramon Market Place removing trash from the Marilyn Murphy Kane Trail.

- ▶ Adopt a Creek Spot
- ▶ City of Pleasanton's Trash hotspots
 - ▶ Marilyn Murphy Kane Trail
 - ▶ Bernal/Fairgrounds Ditch
 - ▶ Vine Street Apartments
 - ▶ West Detention Pond



Trash Hotspots: Adopt-A-Creek Spot Program

Promotes healthy creeks through active community participation and education.

- ▶ Tri-Valley Creeks to Bay Clean-up, on Saturday, September 17th
- ▶ This event was part of 32nd Annual Coastal Cleanup Day
- ▶ The largest statewide and international effort to clean trash and debris from beaches, bays, creeks, rivers, and lakes.
- ▶ 199 volunteers collected a total of 2,863.2 gallons of trash and 574.4 gallons of recyclables from 7 creek locations along 5.62 miles of Livermore waterways.



'Knee-Deep' in Healthy Creeks



Maintenance Activities

Hand Weeding



Hand Watering



Mowing



Mulching



Clean-Up

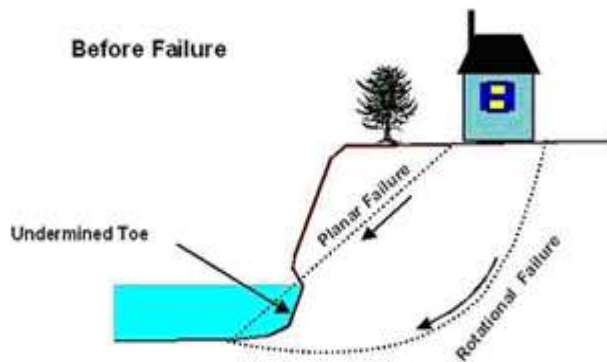


Project sites:

- ▶ B-5 Restoration Site Maintenance
 - ▶ Line G-1-1 Sod Maintenance
 - ▶ Willow Bank Stabilization
 - ▶ Marilyn Murphy Kane Trail
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Maintenance: Willow Bank Stabilization



Maintenance: Marilyn Murphy Kane Trail

- ▶ Located along Arroyo de la Laguna, in Bernal Park (Pleasanton, CA)
- ▶ Monitored by the City of Pleasanton
 - ▶ Trash hotspot
 - ▶ Illegally constructed BMX bike tracks.
- ▶ Living Arroyos staff logged data as required by the State WaterBoard's Municipal Regional Stormwater NPDES Permit



Before and after photos of Living Arroyos staff breaking down 7 BMX dirt mounds at BMX Track.



Living Arroyos Events

Volunteers Appreciation

- ▶ Living Arroyos invites the local community to participate in hands-on activities that protect and enhance waterways in their area.
 - ▶ FY2015-2016 Volunteer data.
 - ▶ 14 volunteer days
 - ▶ 225 volunteers
 - ▶ 921 volunteer hours



Living Arroyos SWAG!



Future Plans

Project Forms

Project Snapshot	
Project Name:	Partner:
Stream Name:	Project Priority: 1 2 3
Summary Goal Statement:	
Summary of key components <ul style="list-style-type: none">• Planting:• Maintenance/Water:• Monitoring:• Reporting:• Volunteer Days:• Other:	
LA Coordinator approval on satisfactory completion (mark with initials):	
Project information: Work:	Budget Estimate: Required Attachments:
Scope of	

Community Engagement

- ▶ Local community involvement
- ▶ Citizen Science
- ▶ Program Expansion



*Thank
You*

