



**Water Boards**



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**San Francisco Bay Regional Water Quality Control Board**

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**CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION  
AND ORDER**

**for the  
City of Pleasanton Stream and Pond Maintenance Project  
Alameda County**

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*Sent via electronic mail: No hard copy to follow*

**Effective Date:** December 16, 2021  
**Place ID:** 876111  
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**Corps File No:** SPN-2020-00142S

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## **Certification and Order Coverage**

This Clean Water Act (CWA) section 401 Water Quality Certification (Certification) and Order (Order) is issued to the City of Pleasanton (Permittee or City).

Pursuant to CWA section 404, the Permittee requested authorization to fill and discharge to waters of the U.S. from the U.S. Army Corps of Engineers (Corps), Regulatory Branch, under a Regional General Permit (RGP) (Corps File No. SPN-2020-00142S).

The Permittee applied to the San Francisco Bay Regional Water Quality Control Board (Water Board) requesting Certification verifying that the City of Pleasanton Stream and Pond Maintenance Project (Project) does not violate State water quality standards. An application with supporting materials was submitted for the Project and received by the Water Board on August 31, 2021, and additional information was provided on October 11, 2011 (collectively Application).

The following sections are derived from the Application.

### **1. Project**

The Project purpose is to maintain stormwater conveyance capacity in stream channels and detention basins in the City of Pleasanton. The City will conduct routine maintenance activities at several streams and stormwater detention ponds on City-owned properties and on privately owned properties over which the City holds maintenance easements. The City will periodically remove debris, sediment, and vegetation from seventeen stream sections and eight stormwater detention ponds (Table 1) to maintain their flood control and stormwater conveyance capacity.

#### **1.1 Site Description**

The names and locations of the stream sections and detention ponds are summarized in Table 1 and illustrated in Att. A, Fig. 1. The Project sites (Sites) consist of portions of natural streams, drainage channels, and detention ponds. Most of the Sites historically were used for various agricultural purposes, such as row crops. By 1949, Sites C-01, P-01, and C-07 were located within residential developments. Between 1949 and 2005, the rest of the Sites that historically supported various agricultural practices were developed as public park space or residential areas. Site C-05 was an engineered agricultural channel since at least 1949, and had portions near Valley Avenue re-naturalized around 2009. The City excavated the detention ponds prior to 2002, with Site P-01 remaining as an undeveloped field until approximately 2012. All Sites are surrounded by a mix of residential and commercial development, with Arroyo Valle in the northern portion of the Project area. Arroyo de la Laguna and Interstate 680 are to the west of the Project area. Sites C-02, C-03, C-04, C-05, C-06, C-07, C-08, C-09, C-11, and C-13 are adjacent to or directly inside of public parks. The latitude and longitude of each Project site are included in Table 1. For tracking purposes, the Project has been assigned latitude 37.661851 and longitude -121.873249.

**Table 1. Project Site Numbers and Names**

Study Area Number	Study Area/Waterbody Name	Location Coordinates (Latitude)	Location Coordinates (Longitude)	Waterbody Connection
<b>Creeks</b>				
C-01	Pimlico Canal	37.7011	-121.8663	Tassajara Creek
C-02	Pleasanton Canal	37.6787	-121.8941	Arroyo Mocho
C-03	Foothill High School Trash Rack	37.6717	-121.9166	Arroyo de la Laguna
C-04	Bernal V-ditch	37.6583	-121.8897	Arroyo Valle
C-05	Bernal North/ South V-ditch	37.6564	-121.8859	Mission Creek
C-06	Mission Creek Restoration Project	37.6496	-121.89	Mission Creek
C-07	Lower Kottinger Creek	37.6613	-121.8699	Kottinger Creek
C-08	Upper Kottinger Creek	37.6586	-121.8614	Kottinger Creek
C-09	Touriga Creek	37.6581	-121.8537	Touriga Creek
C-10	Junipero Canal	37.6503	-121.8852	Mission Creek
C-11	Mission Park Creek	37.6495	-121.8719	Mission Creek
C-12	Cemetery Creek	37.6461	-121.8807	Mission Creek
C-13	Gold Creek	37.6867	-121.9289	Gold Creek
C-14	Dublin Canyon Creek	37.6954	-121.9495	Dublin Creek
C-15	Stonedale Channel	37.6873	-121.9178	Gold Creek
C-16	Arlington Creek	37.6392	-121.8816	Happy Valley Creek
C-17	Rutledge Place Culvert	37.6462	-121.867	Mission Creek
<b>Detention Ponds</b>				
P-01	Stoneridge Pond	37.6971	-121.8528	Arroyo Las Positas/ Arroyo Mocho
P-02	Bernal Detention Pond Central	37.6499	-121.8928	
P-03	Canyon Oaks Detention Pond	37.6504	-121.8878	
P-04	Bernal West Detention Pond	37.6435	-121.8965	
P-05	Callippe Detention Pond	37.6339	-121.8647	
P-06	Oak Tree Farms Detention Pond	37.6243	-121.8852	Arroyo de la Laguna
P-07	Vineyard West Detention Pond	37.6644	-121.8364	
P-08	Vineyard East Detention Pond	37.6591	-121.8253	

### 1.2 Maintenance Details

The following maintenance actions will be conducted in and adjacent to the stream corridors and detention basins listed in Table 1.

**Weed Abatement in Detention Basins:** An agriculture tractor equipped with a fail or rotary type mower is used to abate weeds along the maintenance road, along the top of the banks of the basin, the basin floor, and the internal and external bank slopes of the basin. This maintenance activity requires one to two days to complete, depending on the size of the basin.



**Silt and Rock Removal in Detention Basins:** Dump trucks, backhoes, and excavators are used to scrape and off-haul silt or washed-in rock materials from the basin floor. This maintenance activity requires one to four days to complete.

**Weed Abatement in Streams:** A tracked Bobcat with a mowing attachment is used along the maintenance road, along stream bank tops, and within the channel itself. Weed abatement along steeper banks or areas unreachable by the Bobcat is performed with gas-powered string trimmers. For small sites this maintenance action requires two to three hours to complete. Larger sites for which a Bobcat is required take four to 12 hours. This work may occur at most stream sites.

**Silt and Rock Removal in Stream:** While less likely to be required as a stream maintenance activity, infrequent silt and rock removal may occasionally be needed within stream areas. Dumptrucks and a backhoe or excavator are used to remove and haul off silt or washed in rock materials from the streams. This maintenance action requires from one to three days to complete.

**Tule Removal from Streams:** Dump trucks and an excavator are used to dig out tules and their roots from streambeds in order to allow flow through existing channels and infrastructure, such as culverts. Removed tules are loaded into dump trucks and hauled to the Permittee's Laguna Creek soil disposal site. Tule removal in locations with the potential presence of California Tiger Salamanders may use herbicide treatment instead of mechanical control in order to avoid and minimize the potential to disturb moist soils. These maintenance actions require from one to five days to complete.

**Riparian Tree Maintenance:** Hand-powered equipment will be used to prune and trim riparian trees along the tops of stream banks, as necessary.

**Dewatering:** When necessary to avoid work in flowing or standing water, Sites will be dewatered. Proposed dewatering plans will be included in the pre-season work plans that are submitted to the Water Board each year for review (See Condition 6). Dewatering plans will be implemented after receiving approval from the Water Board Executive Officer. Dewatering plans will require that a qualified biologist will be present to monitor coffer dam installation, dewatering of the Site, and removal of the coffer dam. Cofferdams or other diversion structures will be constructed from materials that are fully contained and can be completely removed from aquatic habitat, such as clean, bagged gravel or rubber bladders. Once maintenance is complete, diversion structures will be fully removed as soon as possible.

## **2. Impacts to Waters of the State**

The Water Board independently reviewed the Project record to analyze impacts to water quality and the environment and designated beneficial uses within the Project's watershed.

## 2.1 Fill and Discharge

The Project will have temporary impacts to 0.22 acres of waters of the State, extending along 1,216 linear feet of channels, and permanent impacts to 1.37 acres of waters of the State, extending along 3,026 linear feet of channels. Table 2 lists the Project's temporary impacts at each of the Sites, Table 3 lists the Project's permanent impacts at the Sites, and Table 4 summarizes temporary and permanent impacts.

**Table 2. Temporary Impacts to Waters of the State from Project Activities**

Site	Activity	Annual	Routine	Occasional	Impacts
C-01	Trash removal; mowing/weed abatement on channel bottom.	Trash removal	Mowing		N/A
C-02	Trash removal; mowing of banks and bottom of channel.	Trash removal			N/A
C-03	Removal of debris and vegetation at and around trash rack. Dewatering as needed at west end of silt/rock/debris removal area.	Mowing		Silt/Rock/Debris removal	0.02 acre/75 LF
C-04	Trash removal; mowing on banks and bottom of ditch.	Trash removal/herbicide application, mowing		Silt/Rock/Debris removal	0.10 acre/630 LF
C-05	Trash removal; mowing on banks and bottom of channel. Dewatering at the north end of channel at inlet pipes.	Trash removal	Mowing	Silt/Rock/Debris removal	0.01 acre/80 LF
C-06	Trash removal.	Trash removal			N/A
C-09	Parks contractor performs weed abatement on the roadway above the creek.	Mowing			N/A
C-12	Trash removal entire site as needed. Mowing banks and channel bottom entire site.	Trash removal, mowing		Silt/rock/debris removal	<0.01 acre/20 LF
C-13	Trash removal entire site as needed.	Trash removal		Silt/rock/debris removal	0.01 acre/80 LF

Site	Activity	Annual	Routine	Occasional	Impacts
C-14	Trash removal. Tree pruning. Dewatering west side of bridge, within silt/ rock/ debris area	Trash removal		Tree pruning, silt/ rock/ debris removal	0.02 acre/60 LF
C-15	Trash removal. Mowing on channel bottom.	Trash removal	Mowing		N/A
C-16	Silt/debris removal only.			Silt/ debris removal	0.03 acre/225 LF
C-17	Debris removal only.			Debris removal	N/A
P-01	Parks Contractor trims 2 feet from fence line, removes weeds from basin, conducts herbicide applications, and performs tree pruning.	Trash removal, tree pruning, mowing			N/A
P-02	Trash removal. Mowing on bank and bottom of basin. Dewatering as needed at northern inlet and southern inlet.	Tree removal, dewatering	Mowing, tule removal	Silt/rock/ debris removal	N/A
P-03	Trash removal. Mowing on banks and bottom of basin	Trash removal, mowing			N/A
P-04	Trash removal. Mowing of banks and bottom of basin. Dewatering northern inlet and southern inlet.	Trash removal, dewatering	Mowing, tule removal	Silt/rock/ debris removal	N/A
P-05	Trash removal. Mowing.	Trash removal, mowing			N/A
P-06	Trash removal. Dewatering at west end of silt/rock/debris work area.	Dewatering, rock/ silt removal			0.02 acre/46 LF
P-07	Trash removal. Mowing on banks and bottom of basin.	Trash removal, mowing			N/A
P-08	Trash removal. Mowing on banks and bottom of basin. Dewatering at inlet to first basin.	Trash removal, mowing	Dewatering, tule removal		N/A

Routine activities occur every three years.

Occasional activities occur every five years.  
 LF = linear feet      N/A = not applicable

**Table 3. Permanent Impacts to Waters of the State from Project Activities**

Site	Activity	Annual	Routine	Impacts
C-07	Parks contractor performs weed abatement on the creekbanks and performs tree pruning (to support tree health for public safety), and trash removal for entire site.	Trash removal, mowing, tree pruning, tule removal		0.06 acre/328 LF
C-08	Parks contractor performs weed abatement on the creekbanks and performs tree pruning (to support tree health for public safety), and trash removal for entire site.	Trash removal, mowing, tree pruning, tule removal		0.01 acre/80 LF
C-10	Trash removal entire site; Dewatering for Section 1 and 2 at outlets of City storm water system at Sunol Road.	Trash removal, dewatering, and tule removal in Section 1	Dewatering and tule removal every other year in Section 2	1.16 acre/2,372 LF
C-11	Trash removal entire site. Park staff trims weeds along streambank. Tree pruning for tree health/public safety entire site. Dewatering at stormwater inlet to pond.	Trash removal, mowing, tree pruning, dewatering, tule removal		0.14 acre/246 LF

Routine activities occur every three years.  
 LF = linear feet      N/A = not applicable

**Table 4. Summary of Impacts to Waters of the State**

	<b>Impact Area (acres)</b>	<b>Length (linear feet)</b>
<b>Permanent Impacts</b>		
Intermittent Stream	0.12	654
Ephemeral Stream	0	0
Perennial Stream	0	0
Drainage Ditch	1.16	2,372
Detention Basin	0.09	-
<b>Total</b>	1.37	3,026
<b>Temporary Impacts</b>		
Intermittent Stream	0.03	225
Ephemeral Stream	0.04	221
Perennial Stream	0.02	60
Drainage Ditch	0.11	710
Detention Basin	0.02	-
<b>Total</b>	0.22	1,216

## 2.2 Beneficial Uses

The *San Francisco Bay Basin Water Quality Control Plan* (Basin Plan) defines the beneficial uses of waters of the state. The Project will affect tributaries to the channels listed in Table 1, above. The following beneficial uses are listed in the Basin Plan for the receiving waters for the Sites: warm freshwater habitat, wildlife habitat, water contact recreation, and noncontact water recreation. By the tributary rule, the beneficial uses of a water body are assumed to apply to its tributaries.

## 3. Mitigation

Mitigation for the Project's impacts to waters of the State is described in Section 4, *Habitat Mitigation Plan*, of Part 2, *Supplemental Information*, of the Application (MMP) (WRA, August 2021). Mitigation for the Project's temporary and permanent impacts to in-channel vegetation will be provided at a mitigation site adjacent to two of the Sites. A mitigation ratio of 1.5:1 (mitigation:impacts) will be implemented for the Project's permanent impacts resulting from annual tule maintenance at four channel locations, and a mitigation ratio of 1.1:1 will be implemented to provide mitigation for the temporal loss of in-channel vegetation that will reestablish in areas that do not require annual maintenance. Table 5 summarizes Project impacts and mitigation quantities.

**Table 5. Summary of Project impacts and Mitigation**

Maintenance Activity	Impact Total (acre)	Impact Type	Mitigation Type	Mitigation Ratio	Total Mitigation (acre)
Sediment Removal	0.22	Temporary	Riparian Planting	1.1:1	0.24
In-channel Vegetation Management	1.37	Permanent	Riparian Planting	1.5:1	2.06
			Invasive Species Management	1.2:1	1.64

The Mitigation site extends from the eastern banks of Arroyo de la Laguna to the public pathway of the Marilyn Murphy Kane Trail (Att. A, Fig. 4). The Mitigation site currently has a riparian canopy that has either a sparse understory or an understory that is dominated by non-native plant species. The area adjacent to the current riparian canopy is dominated by herbaceous non-native species, such as poison hemlock, Italian thistle, and black mustard. The existing riparian corridor is 80 to 90 feet wide in the north and varies in the central and southern portions of the canopy between 120 and 160 feet wide. The mitigation project will expand the width of the riparian canopy to 130 feet in the north and to 210 feet in the south. The health and function of the riparian corridor will be enhanced by reducing the cover of non-native plant species, increasing the number of native riparian species in the understory, and expanding the width of the riparian corridor with riparian and transition zone plantings outside of the current riparian canopy cover.

There are two subdivisions within the Mitigation site: an Invasive Species Management Area (1.68 acres / 1,226 linear feet), indicated by purple cross-hatching in Att. A, Fig. 4. and a Riparian Enhancement Planting Area (5.13 acres / 1,374 linear feet), indicated by green cross-hatching in Att. A, Fig. 4. Work in the Invasive Species Management Area will focus on dominant non-native species, including poison hemlock, Italian thistle, and black mustard, and those defined as having “high” invasive potential and ecological impacts by the Cal-IPC (2021).<sup>1</sup> Work in the Riparian Enhancement Planting Area will consist of planting riparian vegetation along the stream bank, planting native understory plants within the existing corridor to improve understory habitat quality and diversity, and planting native vegetation outside of the existing riparian corridor to create a riparian upland transition zone. The plant palette and recommended spacings are listed in Table 6. The planting locations will be field fit at the time of planting.

<sup>1</sup> California Invasive Plant Council’s (Cal-IPC’s) California Invasive Plants inventory (<http://www.cal-ipc.org/paf/>).

**Table 6. Riparian Enhancement Planting Palette**

Scientific Name	Common Name	Container Size	On-Center Spacing (ft.)
<b>Streambanks</b>			
<i>Baccharis salicifolia</i>	mulefat	1 gallon	5
<i>Heuchera micrantha</i>	crevice alumroot	1 gallon	3
<i>Salix lasiolepis</i>	arroyo willow	Live stake	4
<i>Salix exigua</i>	sandbar willow	Live stake	4
<b>Riparian understory</b>			
<i>Ribes sanguineum</i>	red flowering currant	1 gallon	5
<i>Clematis lasiantha</i>	pipestem clematis	1 gallon	6
<i>Rosa gymnocarpa</i>	wood rose	1 gallon	6
<i>Symphoricarpos albus</i>	common snowberry	1 gallon	4
<i>Symphoricarpos mollis</i>	creeping snowberry	1 gallon	4
<i>Heuchera micrantha</i>	crevice alumroot	1 gallon	3
<i>Pteridium aquilinum</i>	western brackenfern	1 gallon	5
<i>Rubus ursinus</i>	California blackberry	1 gallon	8
<b>Upland/Riparian transition</b>			
<i>Lupinus albifrons</i>	silver lupine	1 gallon	5
<i>Baccharis pilularis</i>	coyote brush	1 gallon	6
<i>Achillea millefolium</i>	common yarrow	1 gallon	3
<i>Frangula californica</i>	California coffeeberry	1 gallon	6
<i>Artemisia californica</i>	California sagebrush	1 gallon	5
<i>Sambucus nigra ssp. caerulea</i>	blue elderberry	1 gallon	10
<i>Heteromeles arbutifolia</i>	toyon	1 gallon	10

The riparian mitigation plantings will be considered successful if the Year 6 success criteria in Table 7 are attained in the sixth year after planting.

**Table 7. Success Criteria for the Mitigation Areas.**

Monitoring Parameter	Year	Success Criterion
Riparian Enhancement Planting Mitigation Area		
Plant survival (percentage of plants in good or fair condition)	1	90% plant survival
	2	85% plant survival
	3	80% plant survival
	4	75% plant survival
Plant vigor	1-5	Surviving plants must be in good or fair condition
Vegetative cover (riparian trees and shrubs only)	4-5	Demonstrate trend of increasing cover
	6	75% canopy cover of riparian trees and shrubs with dominance of native riparian woody species
Relative cover of Cal-IPC high forbs within Riparian Enhancement Planting Area	1-2	Less than 40%
	3-4	Less than 25%
	4-6	Less than 10%
Streambank plantings		
Vegetative cover	1-5	Demonstrate trend of increasing cover and species dominance
	6	75% cover of wetland species with a dominance of native species
Invasive Species Management Area – Mowing Reference Area		
Relative cover of Cal-IPC high forbs within the mowing area	6	Less than 5% difference in relative cover of Cal-IPC high forbs in comparison with the reference site
Plant diversity within the mowing area	6	Less than 20% difference in total number of species in comparison with the reference site

**Invasive Species Management Area Mitigation Performance Criteria.** In the Invasive Species Management Area, invasive plants will be managed with a combination of mowing and direct removal. Success of invasive control will be assessed via relative percent cover of Cal-IPC highly invasive. Percent cover will be visually assessed and changes in plant diversity, indicated by an increase in the number of



species and relative percent cover by those species, will be used to document progress in invasive species management. Success criteria for these areas will be in comparison to a Mowing Reference Area, located immediately north of the Invasive Species Management Area (Att. A, Final Figure); in this area, a regular mowing regime has maintained higher plant diversity and a lower number of species that are rated highly invasive by Cal-IPC. The success criteria for areas of invasive species management is less than five percent difference in relative cover of Cal-IPC high forbs in comparison to the reference site at the end of 6 years and less than twenty percent difference in plant species diversity.

The visual assessment of vegetation cover will be performed via quadrat sampling of 0.5 square meter quadrats along transect lines within the Riparian Enhancement Planting Area, Invasive Species Management Area, and Mowing Reference Areas. In some cases, a transect may serve to document both genres of habitat enhancement. In those instances, both types of data collection will be collected and analyzed in-kind.

- For the Riparian Enhancement Planting Area, sampling will occur randomly along two fixed 50-foot transects. Ten quadrats will be placed along each transect at a randomly generated interval between 1 and 10 feet. Data collection within these quadrats will focus on riparian canopy percent cover.
- For the Invasive Species Management Area, sampling will occur randomly along three fixed 50-foot transects. Ten quadrats will be placed along each transect at a randomly generated interval between 1 and 10 feet. Data collection within these quadrats will focus on relative percent cover of invasive species (Cal IPC Highly invasive forbs).
- Within the Mowing Reference Site, sampling will occur along three fixed 50-foot transects. 10 quadrats will be placed at a randomly generated interval (between 1 and 10 feet) along each transect.

#### 4. California EcoAtlas

Regional, state, and national studies have determined that tracking of mitigation and restoration projects must be improved to better assess the performance of these projects, following monitoring periods that last several years. To effectively carry out the State's Wetlands Conservation Policy of no net loss to wetlands, the State needs to closely track both losses and successes of mitigation and restoration projects affecting wetlands and other waters of the State. The Water Board must also track project performance in Bay Area creeks subject to routine repair and maintenance activities, such as recurring instabilities. Therefore, we adopted the digital interactive mapping tool called *EcoAtlas*.<sup>2</sup> EcoAtlas is a web-based tool that integrates maps, project plans, site conditions, restoration efforts, and other elements on a project-by-project basis based

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<sup>2</sup> Source: California Wetlands Monitoring Workgroup (CWMW), 2019. *EcoAtlas*. Accessed May 14, 2019. <https://www.ecoatlas.org>. The California Wetland Monitoring Workgroup (CWMW) provides technical oversight on the development of content and functionality of EcoAtlas. As a member of CWMW, San Francisco Estuary Institute provides day-to-day support and management of EcoAtlas, and can be contacted by email to [ptrackadmin@sfei.org](mailto:ptrackadmin@sfei.org).

on data inputs. Accordingly, we require the Permittee to upload their Project information to EcoAtlas with the Project Tracker tool at <https://ptrack.ecoatlas.org>. The California Wetlands Monitoring Workgroup developed EcoAtlas and maintains detailed instructions for Project Tracker on its website at <https://ptrack.ecoatlas.org/instructions>.

## 5. California Environmental Quality Act (CEQA) Compliance

The Permittee, acting as the CEQA lead agency, reviewed the Project's potential environmental impacts pursuant to the requirements of CEQA in the *Initial Study/Mitigated Negative Declaration, Pleasanton Stream Maintenance Project* (ISMND) (SCH No. 2020070183). The Permittee filed a Notice of Determination (NOD) for the ISMND with the Alameda County Clerk on October 9, 2020. The Water Board, as a responsible agency under CEQA, finds that the ISMND, in combination with the conditions of this Certification, appropriately addresses the Project's reasonably foreseeable environmental impacts under the Water Board's purview.

## 6. Conditions

I, Michael Montgomery, Executive Officer, do hereby issue this Order certifying that any discharge from the proposed Project will comply with the applicable provisions of sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards) of the Clean Water Act, and with other applicable requirements of State law. This discharge is also regulated under State Water Resources Control Board Order No. 2003-0017-DWQ, "General Waste Discharge Requirements for Dredge and Fill Discharges That Have Received State Water Quality Certification," which requires compliance with all conditions of this Order, including the following (Note: Any conditions of Certification that are rejected by the Corps remain enforceable conditions pursuant to Order No. 2003-0017-DWQ):

### 6.1 Regulatory Compliance and Work Windows

1. **Design Conformance.** The Project shall be implemented in conformance with the Project description provided in the body of this Certification, the Figures in Att. A, and the Application materials. Project work shall be performed in conformance with the best management practices (BMPs) specified in Section 3.3 of Part 2, *Supplemental Information*, of the Application (WRA, August 2021). Any changes to design information provided in the Application must be submitted to the Water Board and receive Executive Officer approval before the changes are implemented;
2. **Corps Compliance.** The Permittee shall adhere to the conditions of the CWA Section 404 RGP issued by the Corps (Corps File No. SPN-2020-00142S);
3. **CDFW Compliance.** Project implementation shall be consistent with the requirements of the Streambed Alteration Agreement issued for the Project by

the California Department of Fish and Wildlife (CDFW) (Notification No. 1600-2020-0274-R3);

4. **Construction Dewatering.** If channel areas are to be dewatered with coffer dams or pumps for any elements of the Project, then, no later than 30 days prior to dewatering the Site, the Permittee shall submit a final dewatering plan to the Water Board, acceptable to the Water Board's Executive Officer. Channel areas shall not be dewatered until the Permittee has received written approval of the dewatering plan from the Executive Officer. Dewatering plans may be submitted with the annual notification of proposed work specified in Condition 6;
5. **Work Window.** To protect water quality in the channels, detention basins, and in downstream receiving waters from sediment generation or debris associated with construction activity, and to protect special status species from being impacted by the Project, work in concrete-lined channels is restricted to April 15 to October 31, work in earthen channels is restricted to May 1 to October 31, and work in detention basins is restricted to August 15 through October 31, or the end of any extension granted in writing by Water Board staff;

## 6.2 Annual Notification of Proposed Work

6. **Annual Work Plan.** By May 1 of each year, the Permittee shall submit to the Water Board a work plan identifying the proposed maintenance locations, maintenance, activities, and proposed impacts for the year. This work plan shall include any proposed dewatering plans for Sites at which dewatering is necessary for Project implementation. Once the Permittee receives notice to proceed from the Water Board and other regulatory agencies, regulated maintenance activities may be initiated;

## 6.3 General Construction

7. **Precipitation and Construction Planning.** Precipitation forecasts shall be considered when planning construction activities. The Permittee shall monitor the 72-hour forecast from the National Weather Service at <https://www.weather.gov>. When there is a forecast of more than 40% chance of rain, or at the onset of unanticipated precipitation, the Permittee shall remove all equipment from the riparian area and shall implement erosion and sediment control measures (e.g., jute, straw, coconut fiber erosion control fabric, coir logs, straw), and all Project activities shall cease. The use of erosion control measures that include plastic monofilament netting is prohibited;
8. **Discharge Prohibition.** No unauthorized construction-related materials or wastes (e.g., debris, soil, silt, excessive bark, rubbish, creosote-treated wood, raw cement/concrete or washings thereof, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could

- be hazardous to aquatic life) shall be allowed to enter into or be placed where they may be washed by rainfall or runoff into waters of the State. When construction is completed, any excess material shall be removed from the work area and any areas adjacent to the work area where such material may be discharged to waters of the State;
9. **Equipment Cleaning and Maintenance.** Prior to use, all equipment must be cleaned to remove external oil, grease, dirt, or mud. Wash sites must be located in upland locations so that wash water does not flow into the stream channel or wetlands. Project personnel shall remove mud, snails, algae, and other debris from nets, traps, boots, vehicle tires and all other surfaces, and rinse cleaned items with sterilized (e.g., boiled or treated) water before leaving the project site. Boots, nets, traps, etc., will then be scrubbed with 70 percent ethanol solution (or sodium hypochlorite 3 to 6 percent) and rinsed clean with sterilized water;
  10. **Equipment Maintenance Prohibition.** No fueling, cleaning, or maintenance of vehicles or equipment shall take place within waters of the State, or within any areas where an accidental discharge to waters of the State may occur; and construction materials and heavy equipment must be stored outside of the active flow of the creek or other waters of the State. When work within waters of the State is necessary, the entire stream flow shall be diverted around the work area;
  11. **Impacts to Beneficial Uses.** All work performed within waters of the State shall be completed in a manner that minimizes impacts to beneficial uses and habitat; measures shall be employed to minimize disturbances along waters of the State that will adversely impact the water quality of waters of the State. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete Project implementation. Project sites shall be stabilized through incorporation of appropriate BMPs, including the successful reestablishment of native vegetation to enhance wildlife habitat values, and to prevent and control erosion.

#### 6.4 Pre-Construction Reporting and Other Requirements

12. **EcoAtlas.** The Permittee shall input Project information to EcoAtlas within 14 days from the date of this Order. The Project information shall be added to the Project Tracker tool in EcoAtlas online at <https://ptrack.ecoatlas.org>. Instructions for adding information to EcoAtlas are available at <https://ptrack.ecoatlas.org/instructions>, or by contacting the San Francisco Estuary Institute by email at [ptrackadmin@sfei.org](mailto:ptrackadmin@sfei.org), or the Water Board case manager listed on the cover page of this Order. The Executive Officer may grant an extension to the 14-day deadline if the Permittee submits a request in writing to the Water Board case manager listed on the cover page of this Order. The extension request may be submitted via electronic mail. If any changes to the project occur pursuant to Condition 19, the Permittee shall revise EcoAtlas information for the Project, accordingly. In cases when

EcoAtlas must be revised, the Permittee shall meet the same schedule and notification requirements required for the initial EcoAtlas information;

13. **Commencement of Construction.** The Permittee shall submit a Commencement of Construction Report at least seven days prior to start of initial ground disturbance activities for Sites at which in-water work (tule removal, sediment removal, or dewatering) and riparian tree trimming will be conducted, and notify the Water Board at least 48 hours prior to initiating in-water work and stream diversions. The Report shall reference **SOC\_444883\_PleasantonStreamandPond** and shall be sent via email to [RB2-401Reports@waterboards.ca.gov](mailto:RB2-401Reports@waterboards.ca.gov), or by mail to the attention of 401 Certifications Reports (see address on the letterhead). Notification may be via telephone, email, delivered written notice, or other verifiable means. No notification is required for mowing and trash removal activities;
14. **Photo-Documentation Points.** Prior to the start of construction, the Permittee shall establish a minimum of 32 photo documentation points that will be used to track the condition of the Sites at which in-water work (tule removal, sediment removal or dewatering) will be conducted within waters of the State before and after Project implementation. Photographs from each of the photo documentation points and maps showing the location and direction of each photo documentation point shall be included in annual maintenance reports and in each required monitoring report (See Conditions 15 and 20). At a minimum, the photo documentation points will include: two viewpoints of each of the 12 Sites requiring in-water work within waters of the State (11 channel sites and 1 pond site) to track pre- and post-implementation conditions at the work sites, four representative viewpoints to track the vegetation in the Invasive Species Management Area, and four representative viewpoints of the Riparian Enhancement Planting Area. The photo-documentation points shall be used to track the post-construction stability of the various Project components and the successful recovery of vegetation at impacted Sites, the successful establishment of native vegetation at the Riparian Enhancement Planting Area, and successful control of invasive species at the Invasive Species Management Area;

## 6.5 Annual Work Reporting Requirements

15. **Annual Maintenance Reports.** Annual maintenance reports summarizing the implementation of the Maintenance Program shall be submitted to the Water Board by January 31, following each year of maintenance activities. The report shall describe the work plan status and confirm which projects from the work plan were completed. The report shall include the following information:
  - A description of the extent to which the work plan was completed during the maintenance season (i.e., projects that were and were not implemented, and the extent to which partially-completed projects were completed) and, for any projects that were not implemented, an explanation of why, and whether the project will be incorporated into the



- next year's work plan or placed on a watch list;
- A statement of whether activities were conducted according to the project description and, if not, how the actual project varied from the project description;
- Site photographs (See Condition 14);
- A record of the area and linear footage that were impacted by sediment and vegetation removal at each Site, as well as an estimate of the volume of sediment that was removed from each Site;
- A record of the length and area of vegetation maintenance activities (e.g., herbicide application, tree trimming) at each Site;
- A record, if applicable, of how much material was disposed of off-site, the disposal locations, and the number of acres affected;
- A summary of impacts to jurisdictional wetlands and waters that occurred at each work site and a summary of how those impacts were mitigated for;
- A description of whether any special-status species or other sensitive resources were encountered during pre-activity surveys or project implementation and, if so, what impact avoidance steps were taken in response;
- A brief description of site monitoring activities;
- Any lessons learned from that year's activities, including treatments that were not effective, administrative difficulties, and proposed steps to facilitate the process in future years; and
- Recommended updates (if any) to the Project's BMPs (See Condition 1);

Annual maintenance reports shall reference CIWQS Place ID 876111 and shall be submitted via email to [RB2-401Reports@waterboards.ca.gov](mailto:RB2-401Reports@waterboards.ca.gov), and by mail to the attention of 401 Certifications Reports (see the address on the letterhead);

16. **Project Construction Completion Report.** Not later than 30 days after completing Project activities for the final year of the five-year maintenance program, the Permittee shall submit, acceptable to the Executive Officer, a Notice of Project Construction Completion that references **NOC\_444883\_PleasantonStreamandPond**. The Notice shall include the year five annual report (see Condition 15), the date of the first Project related disturbance of waters of the State occurred, and the date construction was completed. The Notice shall be sent via email to [RB2-401Reports@waterboards.ca.gov](mailto:RB2-401Reports@waterboards.ca.gov), or by mail to the attention of 401 Certifications Reports (see address on the letterhead);
17. **Annual Project Status.** The Permittee shall submit an Annual Project Status Report each year by January 31 commencing the calendar year after issuance of this Certification. The Report shall reference CIWQS Place ID 876111 and state whether Project activities have been initiated or delayed. The Annual Project Status Report shall continue until a Notice of Project Construction Completion is received (see Condition 16);

## 6.6 Mitigation and Monitoring Requirements

18. **Monitoring and Maintenance.** The Permittee shall monitor and maintain the Project sites at which in-water work was conducted, including areas of in-channel and in-pond passive revegetation, the Invasive Species Management Area, and Riparian Enhancement Planting Area, for a minimum period of six years to assess the vegetation of the post-Project site and the successful establishment of vegetation, as described in the discussion of Mitigation in the body of this Certification and specified in MMP Section 4, *Habitat Mitigation Plan*. The mitigation vegetation planting and invasive species control described in the MMP shall be implemented in the same year as the Project's first impact to waters of the State. Mitigation vegetation plantings and invasive species management will be considered successful if the performance criteria in the body of this Certification, are attained in Year six;
19. **Vegetation Monitoring.** The Permittee shall track passive revegetation of the Project sites at which in-water work was conducted and vegetation is managed. The Permittee shall also track the establishment of vegetation in the Riparian Enhancement Planting Area and the control of invasive species in the Invasive Species Management Area, as described in the MMP. Dominant nonnative species, including poison hemlock, Italian thistle, and black mustard, and species ranked as highly invasive by Cal-IPC shall be removed during monitoring and maintenance of the Invasive Species Management Area and the Riparian Enhancement Planting Area. Vegetation cover shall be assessed in years 1 through 6 after planting, as described in the body of this Certification. If vegetation performance standards are not attained, a vegetation contingency plan shall be developed to replace any failing vegetation. The vegetation contingency plan, including a monitoring plan, shall be submitted to the Executive Officer within 12 months of detecting signs that vegetation is not on track to meet performance standards and shall be implemented within 12 months after receiving written approval from the Executive Officer. After the contingency plan is implemented, replaced vegetation shall be monitored for a minimum of five years;
20. **Monitoring Reports.** The Permittee shall submit monitoring reports for passively revegetating work sites, the Riparian Enhancement Planting Area and the Invasive Species Management Area, acceptable to the Executive Officer, by January 31 following monitoring years 1 through 6 until year 6 performance criteria in the body of this Certification are attained. The first monitoring year commences in the calendar year after the Project's mitigation project is implemented. At the time of this Certification and Order, the Project's mitigation project is anticipated to be implemented by the end of 2022. Therefore, the first monitoring report shall be due on January 31, 2024, unless the Project is completed at a different time. Monitoring reports shall include photographs from the photo-documentation points specified in Condition 14. Monitoring reports shall include the information specified in Conditions 18 and 19. Reports shall describe the condition of vegetation at

Project sites at which vegetation was removed. Reports shall also include the percent survival and percent cover of riparian vegetation in the Riparian Enhancement Planting Area, the percent cover by highly invasive vegetation in the Invasive Species Management Area, as well as species diversity in the Riparian Enhancement Planting Area. Each monitoring report shall summarize the previous monitoring results in addition to the current year's monitoring results, including the need for, and implementation of, any remedial actions and or contingency plans. The annual reports shall compare data to previous monitoring years and describe the effects of the Project and environmental drivers (e.g., storms, fires) on site conditions. The final monitoring report shall document the overall condition of the Invasive Species Management Area and the Riparian Enhancement Planting Area. If monitoring indicates that beneficial uses have been adversely affected or have the potential to be adversely affected, the Permittee shall, in consultation with Water Board staff, identify remedial measures to be undertaken, including replanting, as well as possible extension of the monitoring and reporting period until the final performance criteria are met. The Permittee shall implement all remedial/contingency measures identified upon receiving written acceptance by the Executive Officer. The Project's success shall be determined by, and acceptable to, the Executive Officer. Annual monitoring reports shall reference **AMR\_444883\_PleasantonStreamandPond** and shall be submitted via email to [RB2-401Reports@waterboards.ca.gov](mailto:RB2-401Reports@waterboards.ca.gov), and by mail to the attention of 401 Certifications Reports (see the address on the letterhead);

21. **Notice of Mitigation Monitoring Completion.** Within 30 days of successfully completing required monitoring, the Permittee shall submit, acceptable to the Executive Officer, a Notice of Mitigation Monitoring Completion notifying the Water Board that monitoring has been completed. The Notice shall be submitted via email to [RB2-401Reports@waterboards.ca.gov](mailto:RB2-401Reports@waterboards.ca.gov), or by mail to the attention of 401 Certifications Reports. This notification shall include the date monitoring was completed, the Project Name, and reference **NMMC\_444883\_PleasantonStreamandPond**;

## **6.7 Administrative and General Compliance**

22. **Site Access.** The Permittee shall grant Water Board staff or an authorized representative, upon presentation of credentials and other documents as may be required by law, permission to: (1) enter upon the Site or compensatory mitigation site(s) where a regulated facility or activity is located or conducted, or where records are kept; (2) have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order; (3) inspect any facilities, equipment, practices, or operations regulated or required under this Order; and (4) sample or monitor for the purposes of assuring Order compliance;



23. **Certification and Order at Site.** A copy of this Order shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall remain at the Project site for the duration of this Order. The Permittee shall be responsible for work conducted by its consultants, contractors, and any subcontractors;
24. **Ownership Change Notification.** The Permittee shall provide a signed and dated notification to the Water Board of any change in ownership or interest in ownership of the Project area at least 10 days prior to the transfer of ownership. The purchaser shall also submit a written request to the Water Board to be named as the permittee in an amended order. Until this Order has been modified to name the purchaser as the permittee, the Permittee shall continue to be responsible for all requirements set forth in this Order;
25. **Water Quality Violations Notification.** The Permittee shall notify the Water Board of any event causing a violation of compliance with water quality standards as soon as practicable (ideally within 24 hours). Notification may be via telephone, email, delivered written notice, or other verifiable means.
26. **Discharge Change Notification.** In accordance with CWC Section 13260, the Permittee shall file with the Water Board a report of any material change or proposed change in the ownership, character, location, or quantity of this waste discharge. Any proposed material change in operation shall be reported to the Executive Officer at least 30 days in advance of the proposed implementation of any change. This shall include, but not be limited to, all significant new soil disturbances, all proposed expansions of development, or any change in drainage characteristics at the Project site. For the purpose of this Order, this includes any proposed change in the boundaries of the area of wetland/waters of the State to be impacted;
27. **Individual Waste Discharge Requirements.** Should new information come to our attention that indicates a water quality problem with this Project, the Water Board may issue Waste Discharge Requirements pursuant to 23 CCR Section 3857;
28. **Expiration.** This Order shall continue to have full force and effect regardless of the expiration or revocation of any federal license or permit issued for the Project;

## 6.8 Standard Conditions

29. **Certification and Order Modification.** This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to CWC Section 13330 and 23 CCR Section 3867;
30. **Hydroelectric Facilities.** This Order does not apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy

Regulatory Commission (FERC) license or an amendment to a FERC license, unless the pertinent certification application was filed pursuant to 23 CCR Subsection 3855(b) and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought;

31. **Application Fee**. This Certification and Order is conditioned upon full payment of the required fee, including annual fees, as set forth in 23 CCR Section 3833. The Water Board received payment in full of the \$29,278 fee on November 16, 2021. The Project's fee was calculated from the Project's status as a Category A – Fill & Excavation Discharges, with a total impact of 1.59 acres (0.22 acres of permanent impacts and 1.37 acres of temporary impacts) in the 2020/2021 Water Quality Certification Dredge and Fill Application Fee Calculator; and

## 6.9 Annual Fees

32. **Annual Fee Invoice**. In accordance with 23 CCR Section 2200, the Permittee shall pay an annual fee to the Water Board each fiscal year (July 1 – June 30) until Project construction activities are completed and an acceptable Notice of Project Construction Completion is received by the Water Board (See Condition 16). If monitoring is required, the Permittee shall pay an annual fee to the Water Board until monitoring activities are completed (See Condition 21) and an acceptable final mitigation report is received by the Water Board (Note: The Annual Post Discharge Monitoring Fee may be changed by the State Water Board; at the time of Certification it was \$1,736 per year for Fill & Excavation Discharges). **The Permittee must notify the Water Board at Project and/or mitigation completion with a final report to request to terminate annual invoicing.** Notification shall reference **NOT\_444883\_PleasantonStreamandPond**.

This Order applies to the Project as proposed in the application materials and designs referenced above in the conditions of Certification. Be advised that failure to implement the Project in conformance with this Order is a violation of this Certification. Any violation of Certification conditions is a violation of State law and subject to administrative civil liability pursuant to CWC Section 13350. Failure to meet any condition of this Certification may subject the Permittee to civil liability imposed by the Water Board to a maximum of \$10,000 per day of violation or \$10 for each gallon of waste discharged in violation of this action. Any requirement for a report made as a condition to this Certification (e.g., conditions 6, 12, 13, 15, 16, 17, 20, 21, 24, 25, 27, and 33) is a formal requirement pursuant to CWC Section 13267, and failure or refusal to provide, or falsification of such required report, is subject to civil liability as described in CWC Section 13268. The burden, including costs, of these reports bears a reasonable relationship to the need for the report and the benefits to be obtained. Should new information come to our attention that indicates a water quality problem with this Project, the Water Board may issue Waste Discharge Requirements.

If you have any questions concerning this Order, please contact Brian Wines of my staff at [Brian.Wines@waterboards.ca.gov](mailto:Brian.Wines@waterboards.ca.gov). All future correspondence regarding this Project should reference the CIWQS Place ID No. indicated at the top of this letter.

Sincerely,

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for Michael Montgomery  
Executive Officer

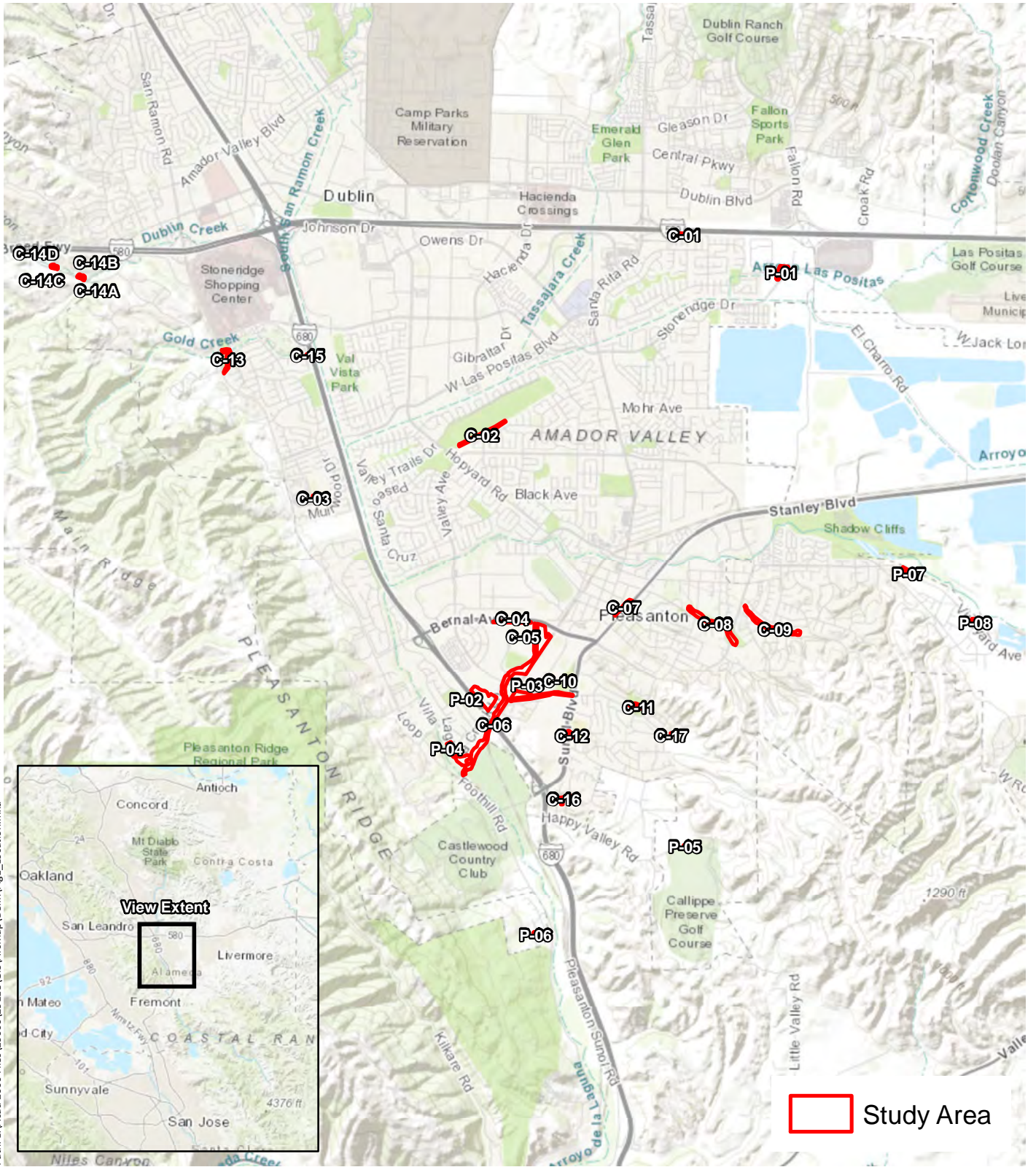
Attachment A: Project Work Sites and Mitigation Area Locations

cc: SWRCB, DWQ, [stateboard401@waterboards.ca.gov](mailto:stateboard401@waterboards.ca.gov)  
Water Board, Victor Aelion, [victor.aelion@waterboards.ca.gov](mailto:victor.aelion@waterboards.ca.gov)  
U.S. EPA, Region IX,  
Jennifer Siu, [siu.jennifer@epa.gov](mailto:siu.jennifer@epa.gov)  
401 Certification Mailbox, [R9cwa401@epa.gov](mailto:R9cwa401@epa.gov)  
CDFW, Marcia Grefsrud, [marcia.grefsrud@wildlife.ca.gov](mailto:marcia.grefsrud@wildlife.ca.gov)  
Corps, SF Regulatory Branch:  
Katerina Galacatos, [katerina.galacatos@usace.army.mil](mailto:katerina.galacatos@usace.army.mil)  
Gregory Brown, [gregory.g.brown@usace.army.mil](mailto:gregory.g.brown@usace.army.mil)  
WRA:  
Patricia Valcarcel, [valcarcel@wra-ca.com](mailto:valcarcel@wra-ca.com)  
Leslie Lazarotti, [lazarotti@wra-ca.com](mailto:lazarotti@wra-ca.com)

## **ATTACHMENT A**

# **Water Quality Certification for the City of Pleasanton Stream and Pond Maintenance Project in Alameda County**

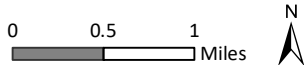
## **Project Work Sites and Mitigation Area Locations**



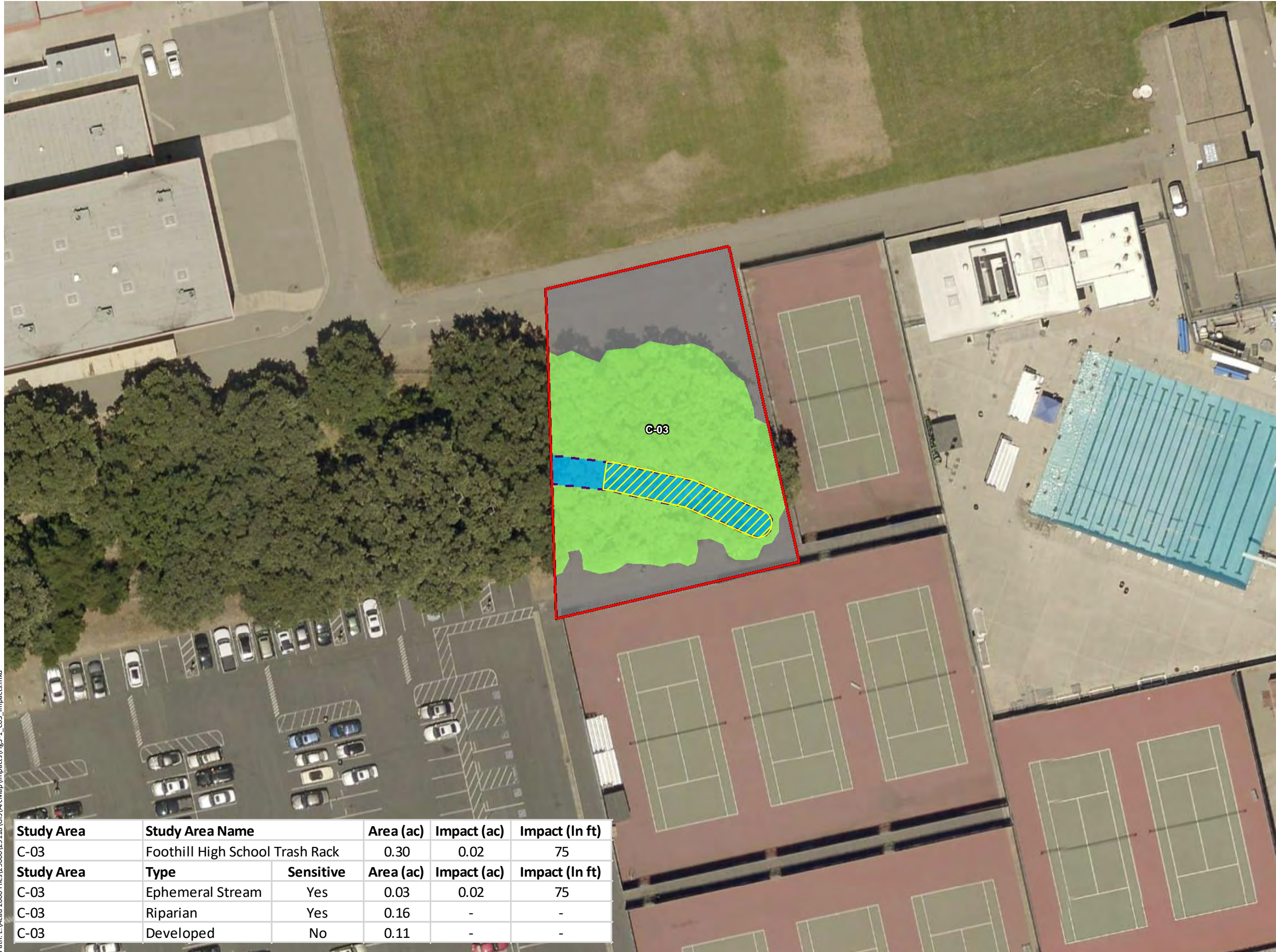
Sources: ESRI World Topo, WRA | Prepared By: SGillespie, 11/19/2019

**Figure 1. Study Area Location Map**

City of Pleasanton  
 Stream Maintenance Program  
 Alameda County, California

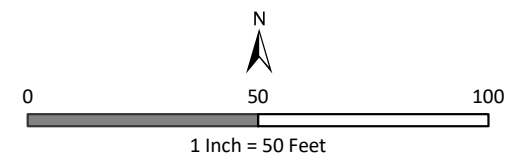
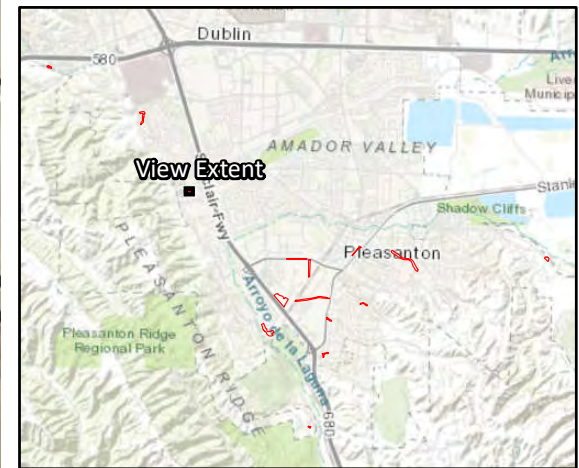
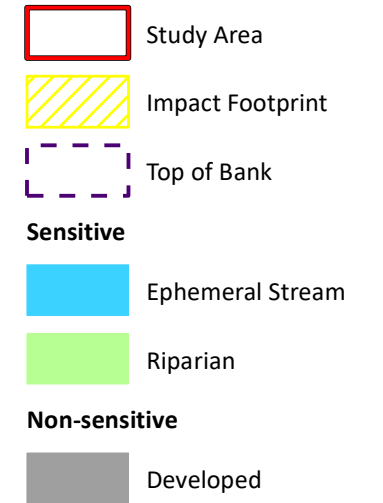






**Figure 3-1.  
Project Impacts  
(C-03)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California



Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (In ft)	
C-03	Foothill High School Trash Rack	0.30	0.02	75	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
C-03	Ephemeral Stream	Yes	0.03	0.02	75
C-03	Riparian	Yes	0.16	-	-
C-03	Developed	No	0.11	-	-

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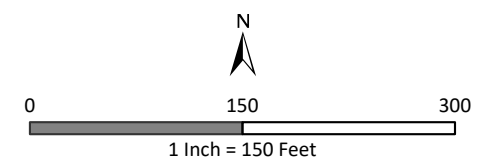
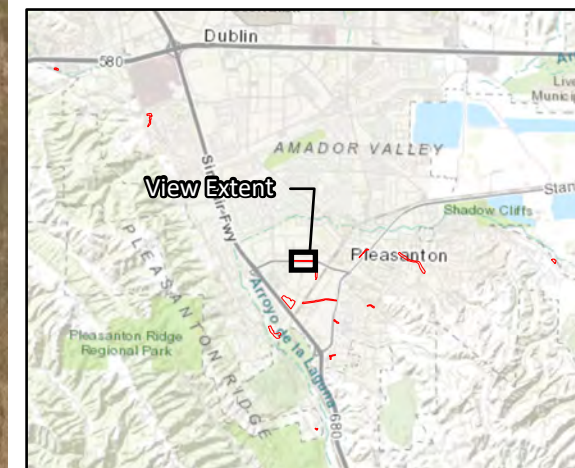
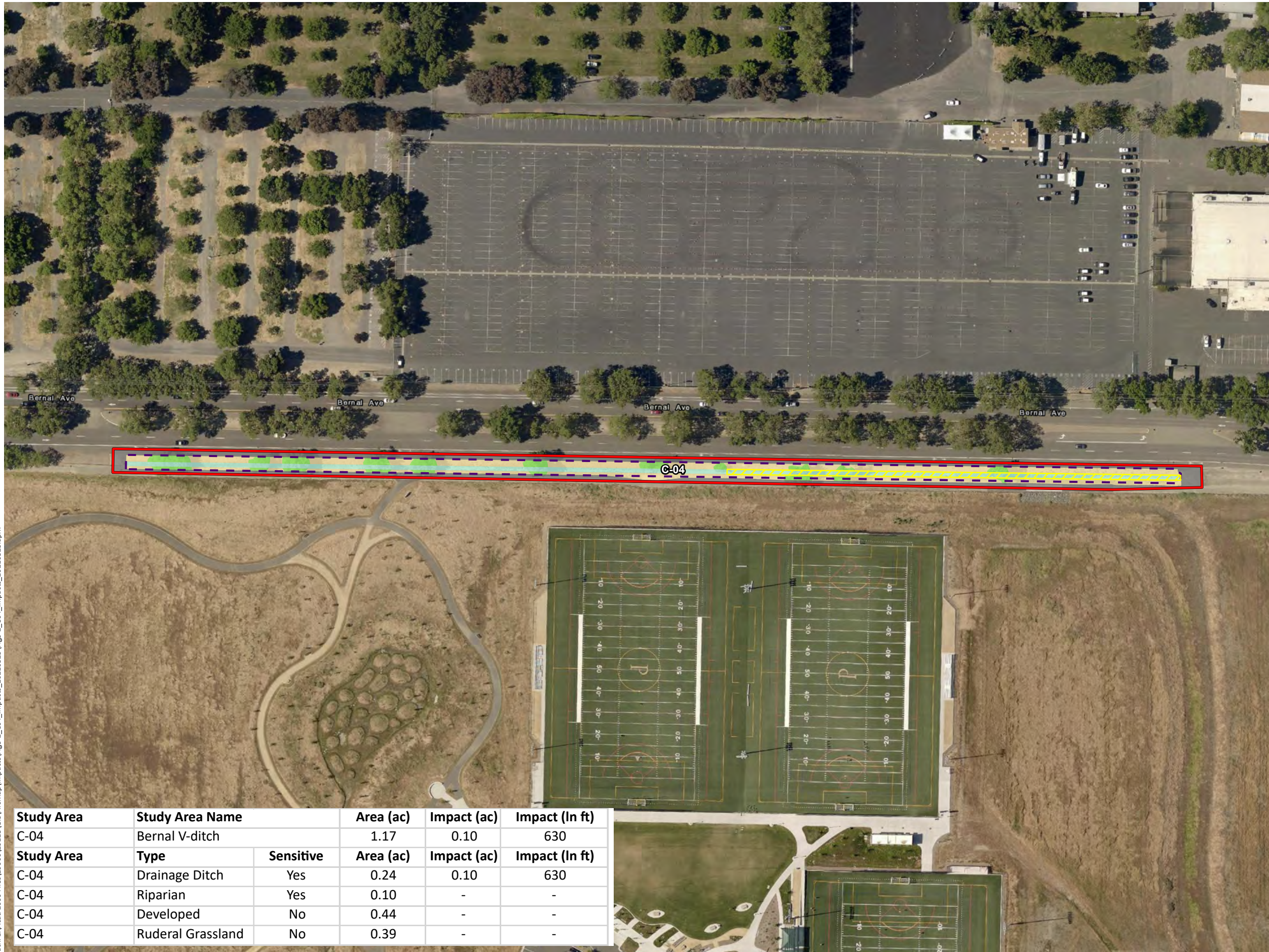
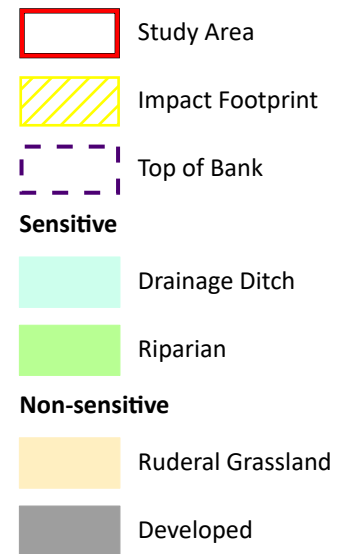
Sources: Alameda County 2017, WRA | Prepared By: mweidenbach, 6/10/2020





**Figure 3-2.  
Project Impacts  
(C-04)**

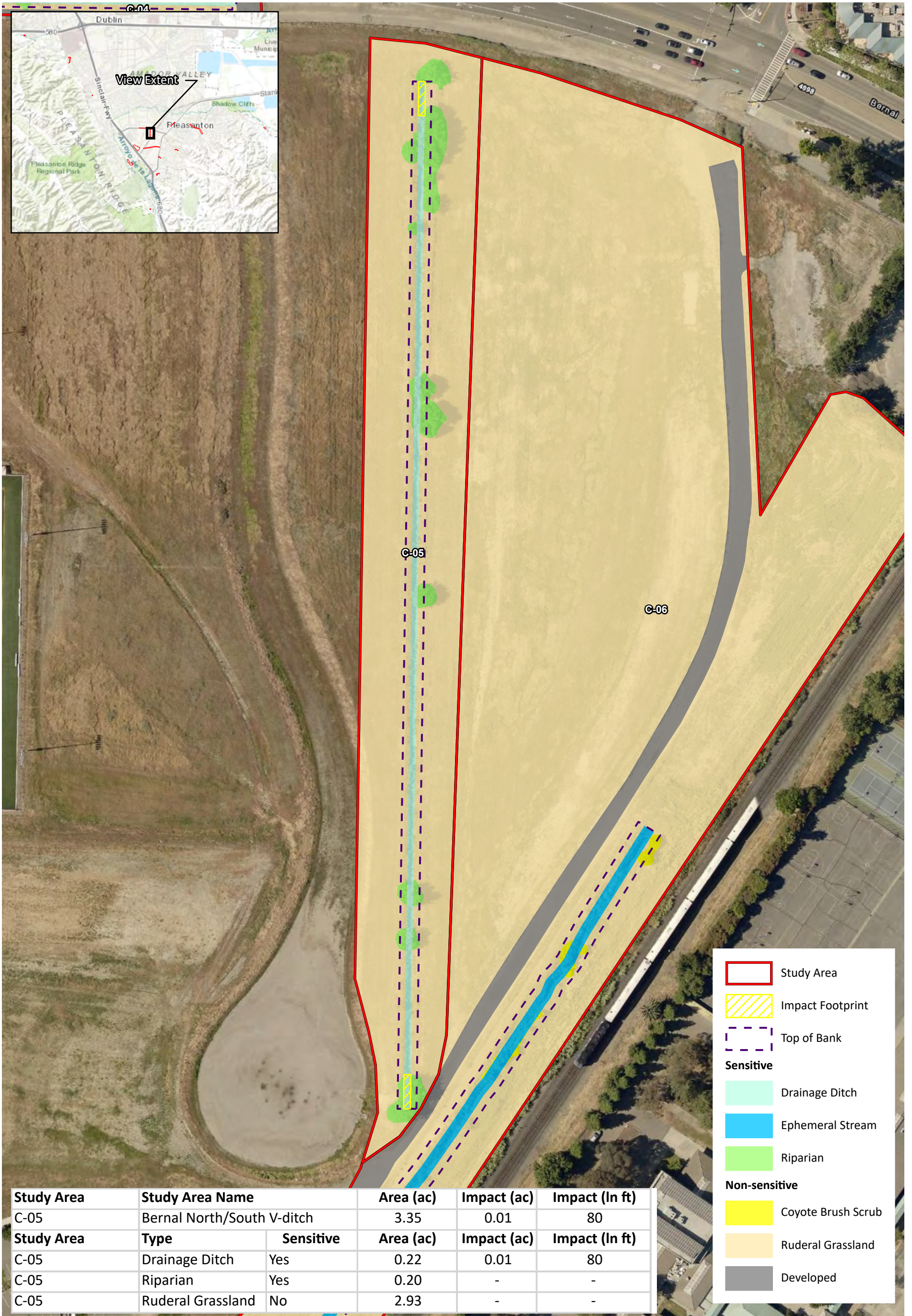
City of Pleasanton  
Stream Maintenance Program  
Alameda County, California



Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (ln ft)	
C-04	Bernal V-ditch	1.17	0.10	630	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (ln ft)
C-04	Drainage Ditch	Yes	0.24	0.10	630
C-04	Riparian	Yes	0.10	-	-
C-04	Developed	No	0.44	-	-
C-04	Ruderal Grassland	No	0.39	-	-

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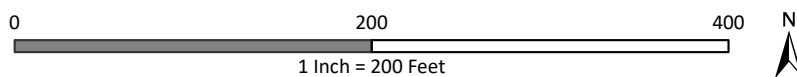


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Sources: Alameda County 2017, WRA | Prepared By: njander, 5/25/2021

**Figure 3-3. Project Impacts (C-05)**

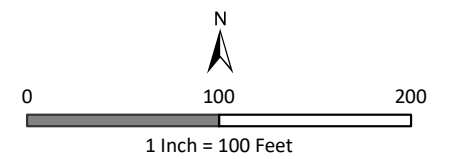
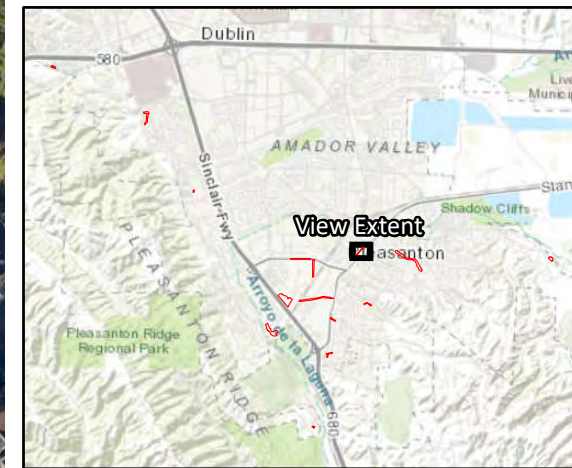
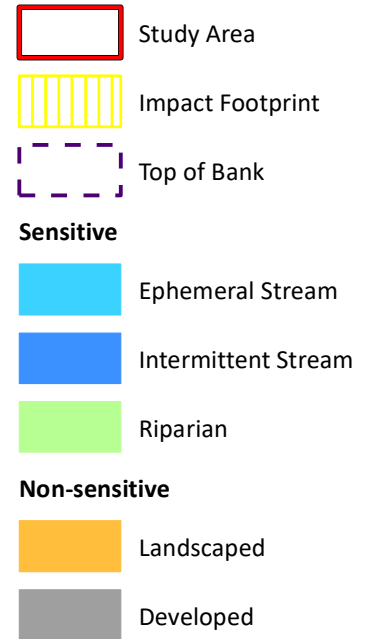
City of Pleasanton  
Stream Maintenance Program  
Alameda County, California





**Figure 3-4.  
Project Impacts  
(C-07)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California



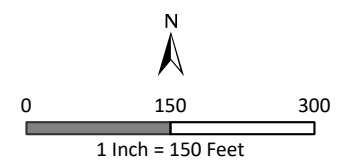
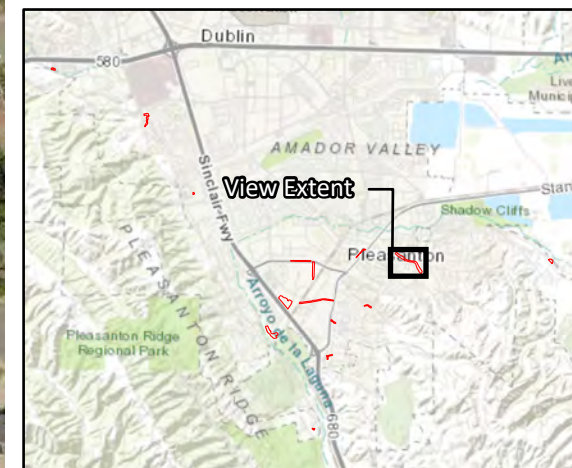
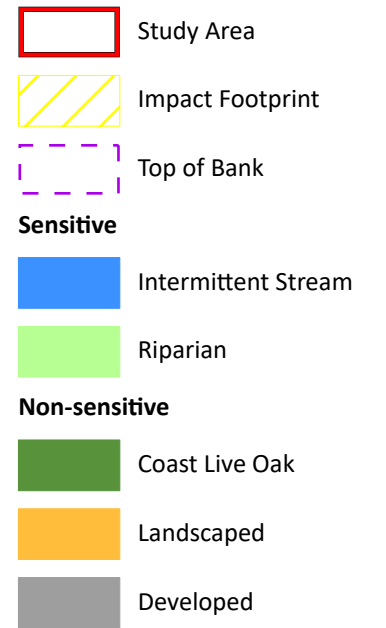
Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (In ft)	
C-07	Lower Kottinger Creek	0.92	0.06	328	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
C-07	Ephemeral Stream	Yes	0.10	-	-
C-07	Intermittent Stream	Yes	0.06	0.06	328
C-07	Riparian	Yes	0.23	-	-
C-07	Developed	No	0.04	-	-
C-07	Landscaped	No	0.49	-	-

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**Figure 3-5.  
Project Impacts  
(C-08)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California



Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (In ft)	
C-08	Upper Kottinger Creek	8.01	0.04	80	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
C-08	Intermittent Stream	Yes	0.34	0.01	80
C-08	Riparian	Yes	3.97	-	-
C-08	Coast Live Oak	No	1.48	-	-
C-08	Developed	No	1.12	-	-
C-08	Landscaped	No	1.10	-	-

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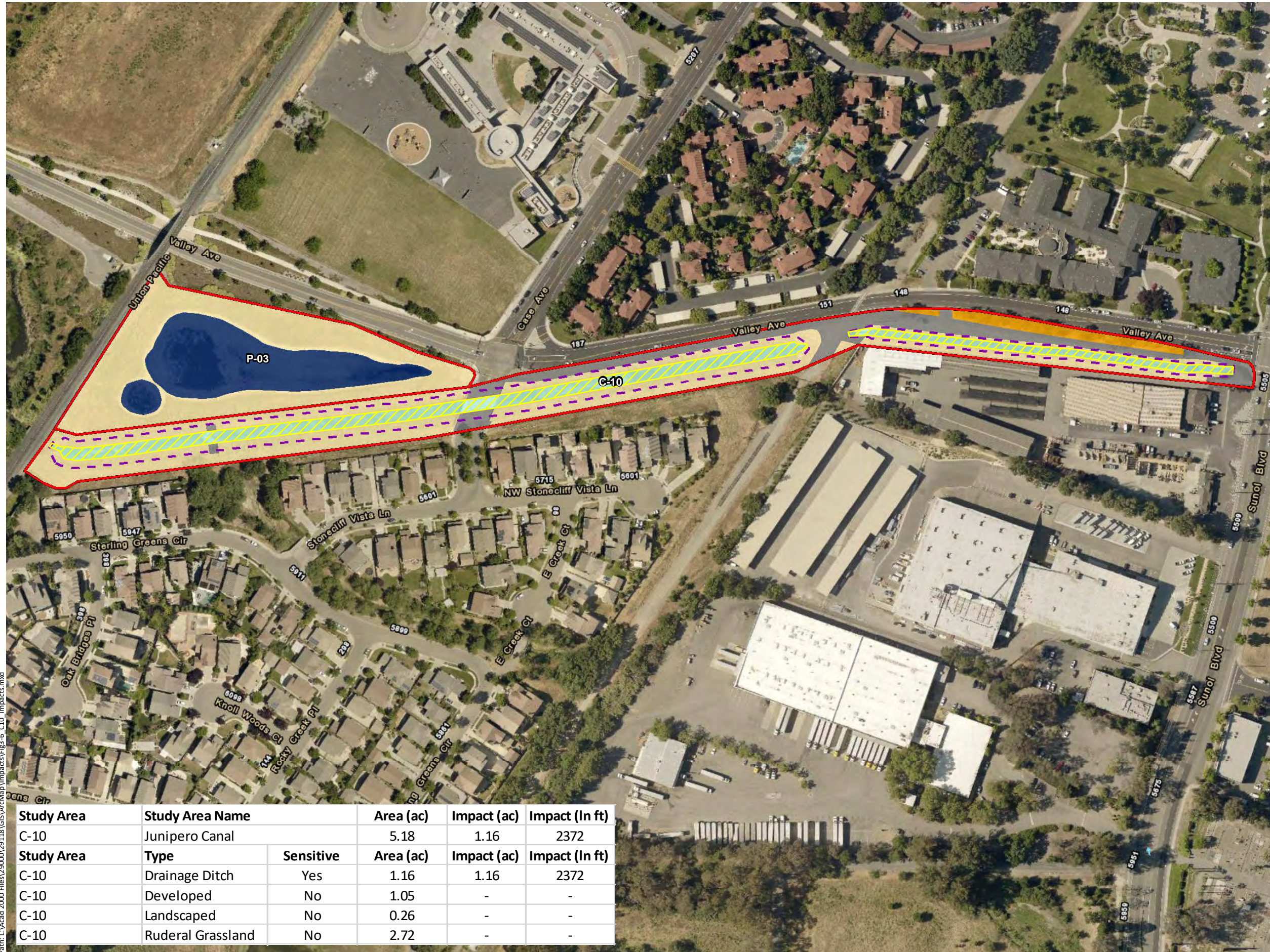
Sources: Alameda County 2017, WRA | Prepared By: njander, 5/28/2021



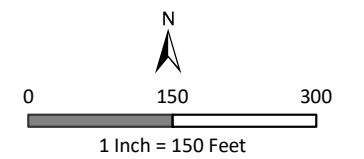
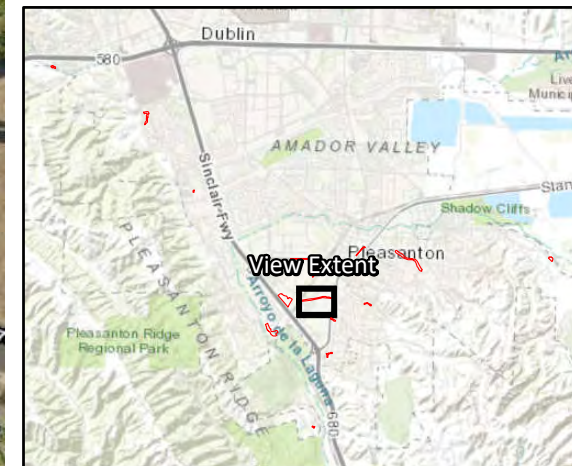


**Figure 3-6.  
Project Impacts  
(C-10)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California



- Study Area
- Impact Footprint
- Top of Bank
- Sensitive**
- Detention Basin
- Drainage Ditch
- Non-sensitive**
- Landscaped
- Ruderal Grassland
- Developed



Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (ln ft)	
C-10	Junipero Canal	5.18	1.16	2372	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (ln ft)
C-10	Drainage Ditch	Yes	1.16	1.16	2372
C-10	Developed	No	1.05	-	-
C-10	Landscaped	No	0.26	-	-
C-10	Ruderal Grassland	No	2.72	-	-

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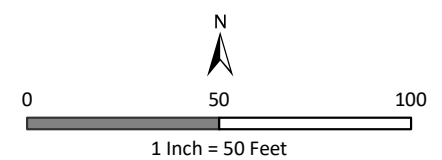
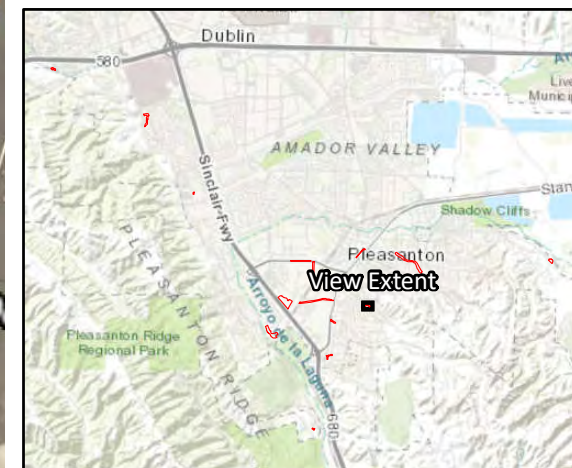
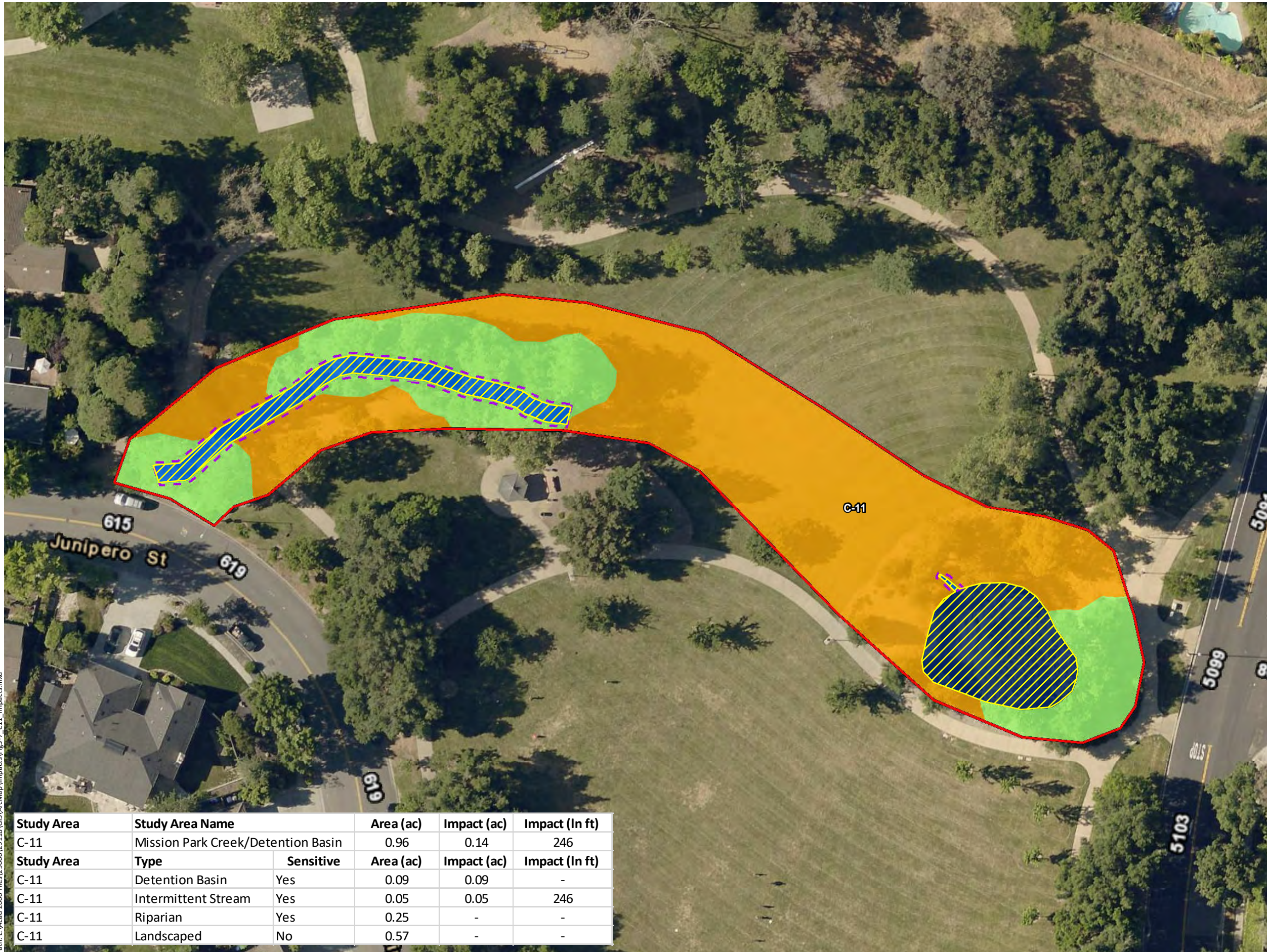
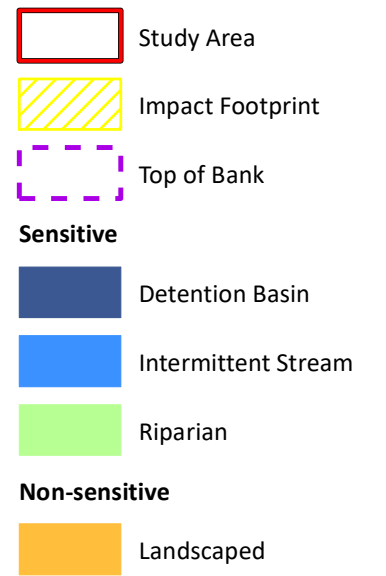
Sources: Alameda County 2017, WRA | Prepared By: mweidenbach, 6/10/2020





**Figure 3-7.  
Project Impacts  
(C-11)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California



Study Area	Study Area Name		Area (ac)	Impact (ac)	Impact (In ft)
C-11	Mission Park Creek/Detention Basin		0.96	0.14	246
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
C-11	Detention Basin	Yes	0.09	0.09	-
C-11	Intermittent Stream	Yes	0.05	0.05	246
C-11	Riparian	Yes	0.25	-	-
C-11	Landscaped	No	0.57	-	-

Path: L:\Acad 2000 Files\29000129118\GIS\AcMap\Impacts\Figs-7\_C11\_Impacts.mxd

Sources: Alameda County 2017, WRA | Prepared By: mweidenbach, 6/10/2020



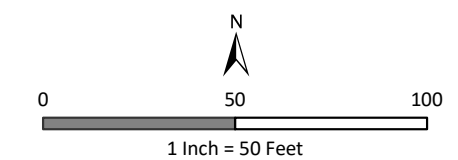
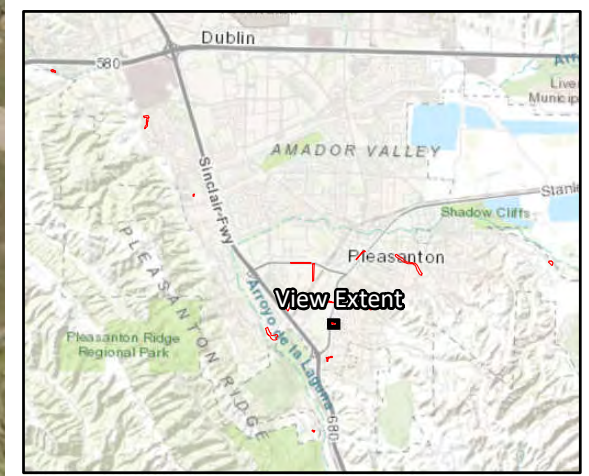




**Figure 3-8.  
Project Impacts  
(C-12)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California

- Study Area
- Impact Footprint
- Top of Bank
- Sensitive**
- Ephemeral Stream
- Riparian
- Non-sensitive**
- Ruderal Grassland
- Developed

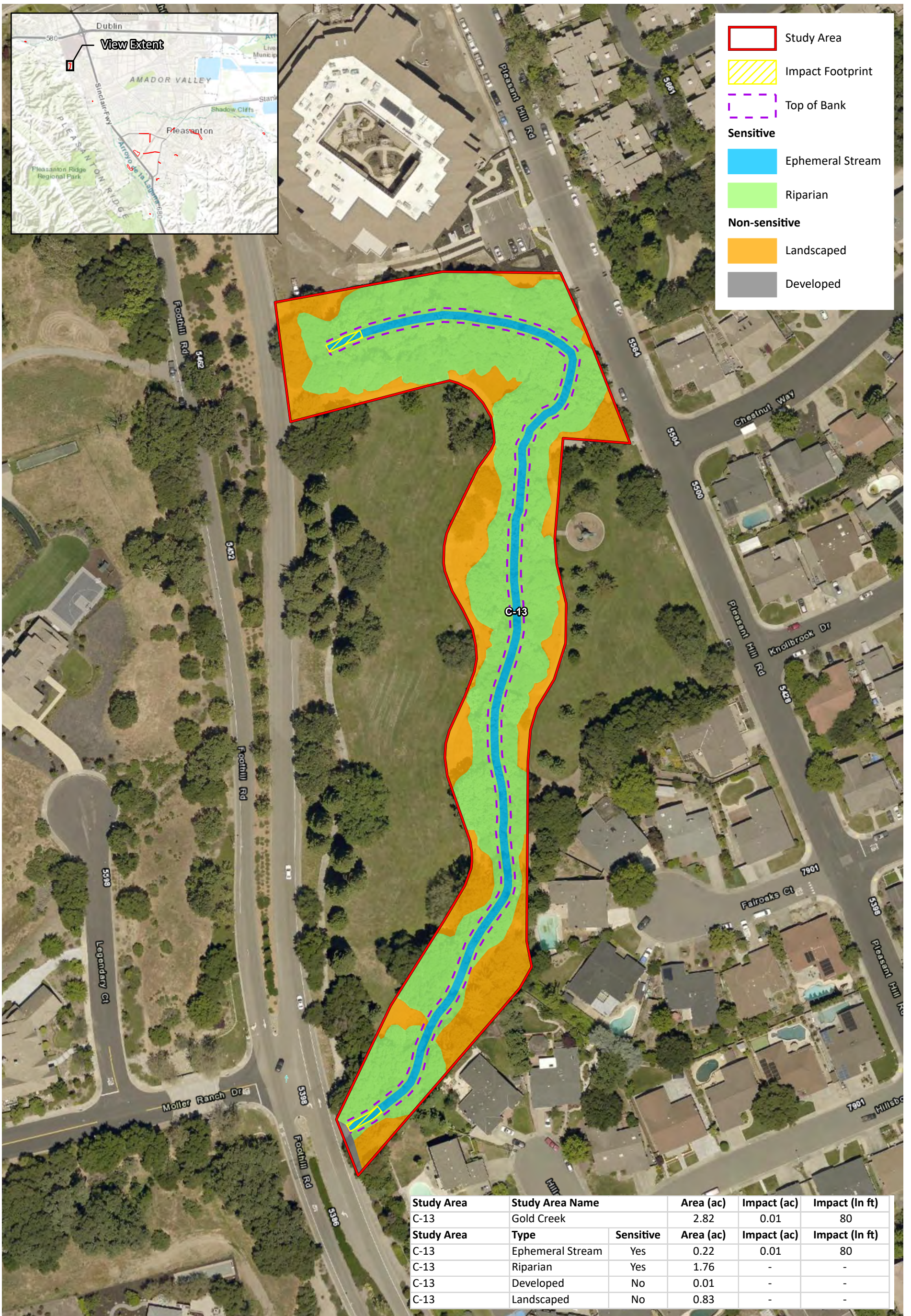


Study Area	Study Area Name		Area (ac)	Impact (ac)	Impact (In ft)
C-12	Cemetery Creek		0.81	0.003	20
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
C-12	Ephemeral Stream	Yes	0.05	0.003	20
C-12	Riparian	Yes	0.55	-	-
C-12	Developed	No	0.02	-	-
C-12	Ruderal Grassland	No	0.19	-	-

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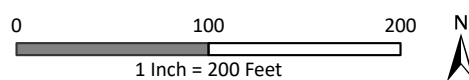


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Sources: Alameda County 2017, WRA | Prepared By: njander, 5/25/2021

### Figure 3-9. Project Impacts (C-13)

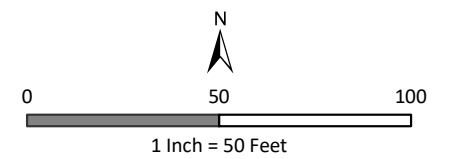
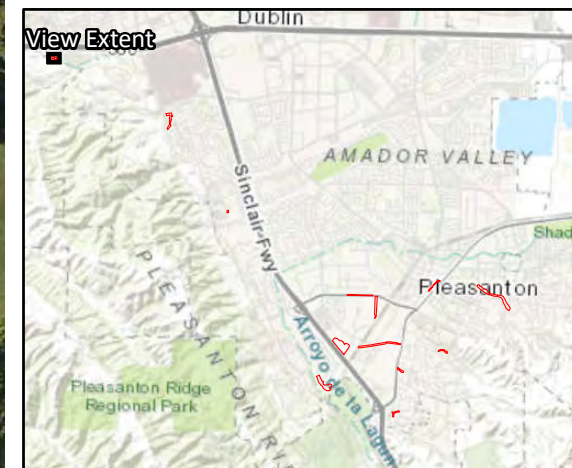
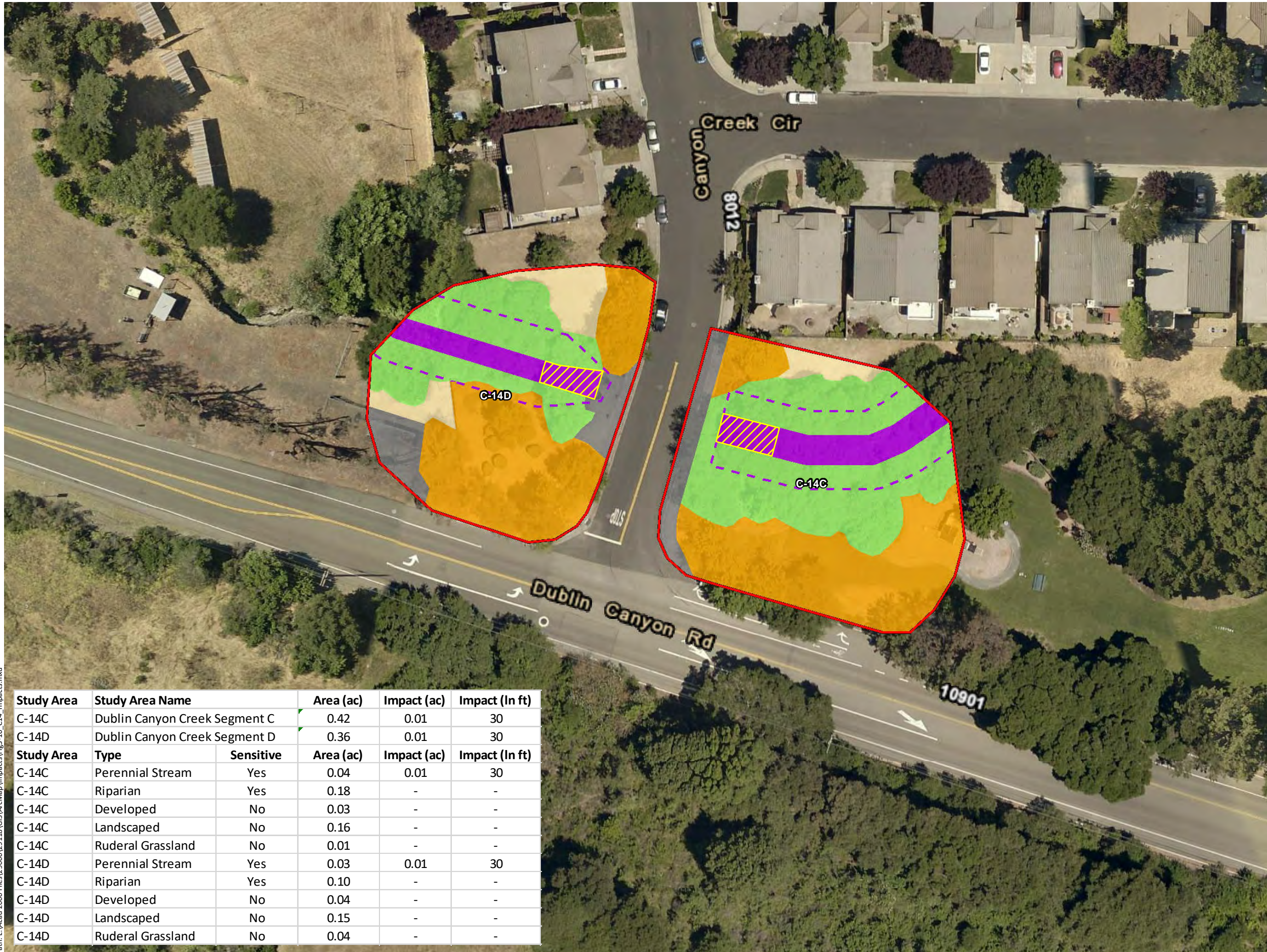
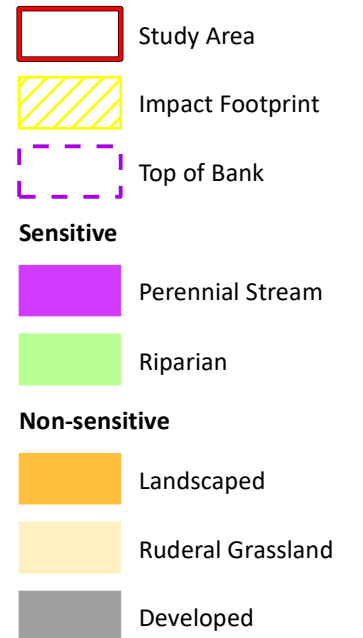
City of Pleasanton  
Stream Maintenance Program  
Alameda County, California





**Figure 3-10.  
Project Impacts  
(C-14C, C-14D)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California



Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (In ft)	
C-14C	Dublin Canyon Creek Segment C	0.42	0.01	30	
C-14D	Dublin Canyon Creek Segment D	0.36	0.01	30	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
C-14C	Perennial Stream	Yes	0.04	0.01	30
C-14C	Riparian	Yes	0.18	-	-
C-14C	Developed	No	0.03	-	-
C-14C	Landscaped	No	0.16	-	-
C-14C	Ruderal Grassland	No	0.01	-	-
C-14D	Perennial Stream	Yes	0.03	0.01	30
C-14D	Riparian	Yes	0.10	-	-
C-14D	Developed	No	0.04	-	-
C-14D	Landscaped	No	0.15	-	-
C-14D	Ruderal Grassland	No	0.04	-	-

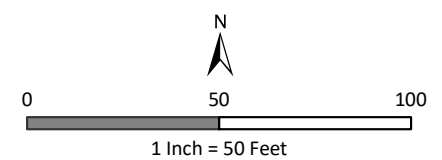
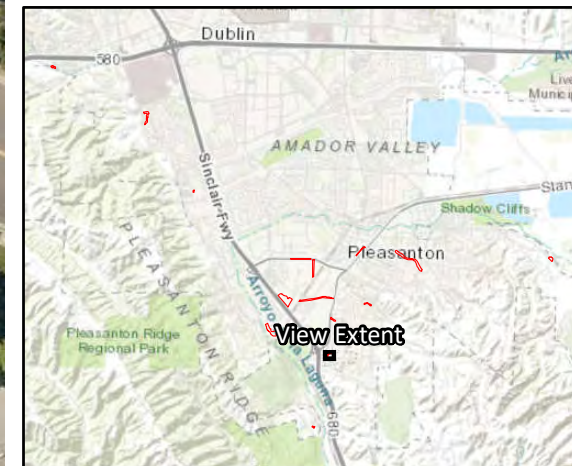
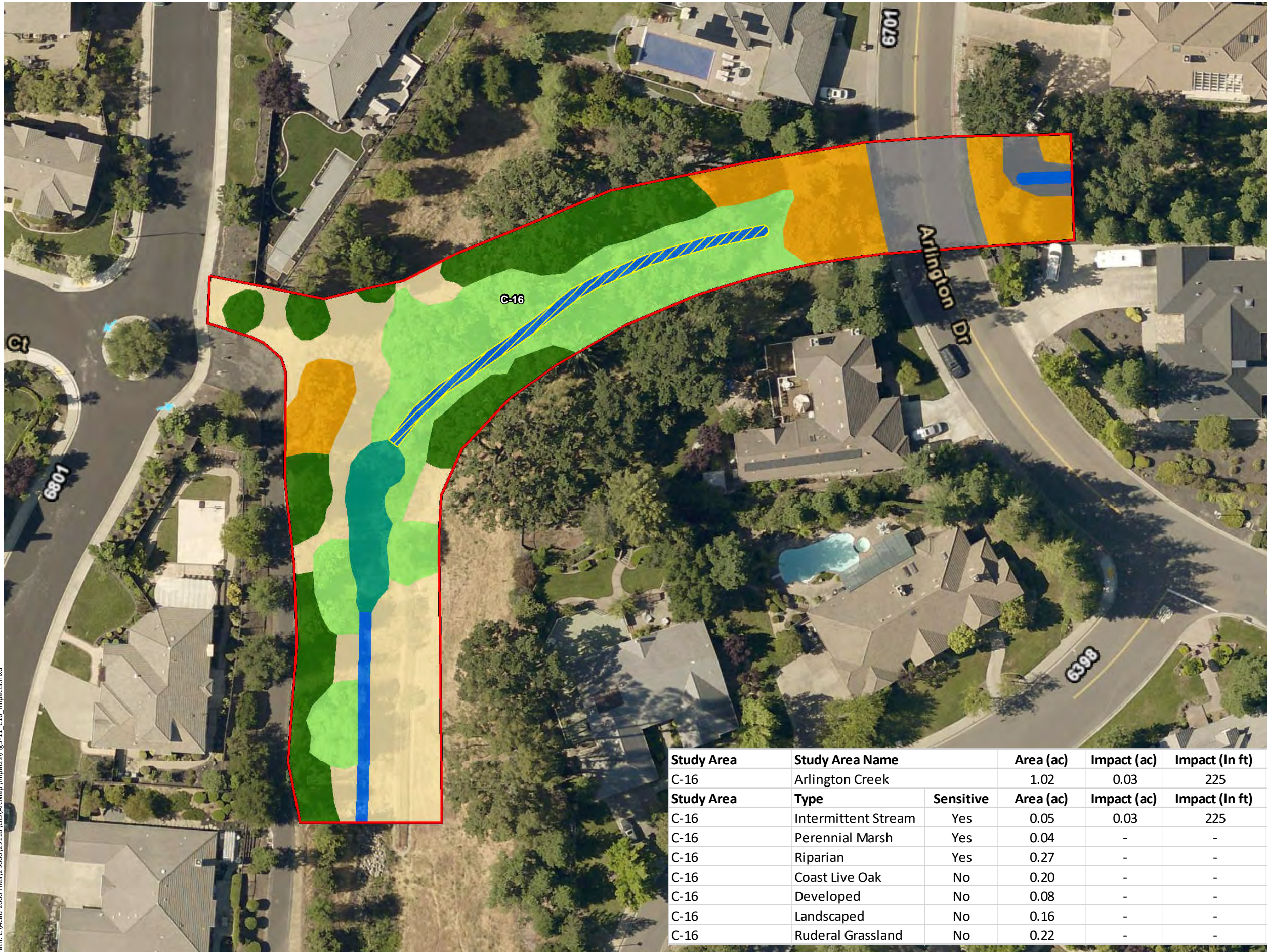
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**Figure 3-11.  
Project Impacts  
(C-16)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California

- Study Area
- Impact Footprint
- Sensitive**
  - Intermittent Stream
  - Perennial Marsh
  - Riparian
- Non-sensitive**
  - Coast Live Oak
  - Landscaped
  - Ruderal Grassland
  - Developed

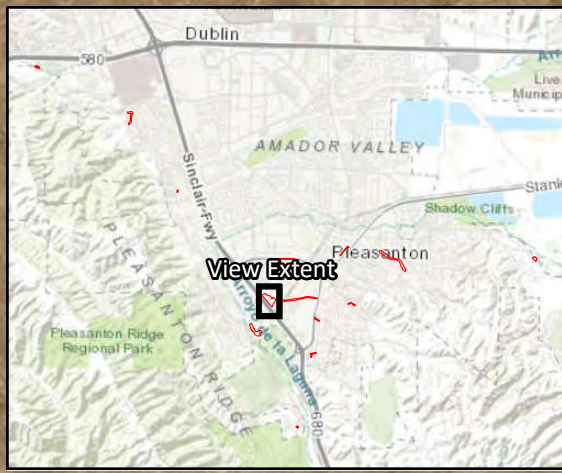


Study Area	Study Area Name		Area (ac)	Impact (ac)	Impact (In ft)
C-16	Arlington Creek		1.02	0.03	225
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
C-16	Intermittent Stream	Yes	0.05	0.03	225
C-16	Perennial Marsh	Yes	0.04	-	-
C-16	Riparian	Yes	0.27	-	-
C-16	Coast Live Oak	No	0.20	-	-
C-16	Developed	No	0.08	-	-
C-16	Landscaped	No	0.16	-	-
C-16	Ruderal Grassland	No	0.22	-	-

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Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (In ft)	
P-02	Bernal Detention Pond Central	9.86	0.08	-	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
P-02	Detention Basin	Yes	4.08	0.08	-
P-02	Riparian	Yes	0.18	-	-
P-02	Developed	No	0.03	-	-
P-02	Ruderal Grassland	No	5.57	-	-

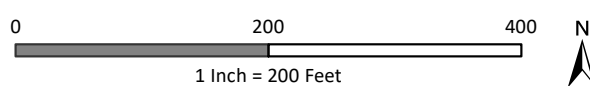


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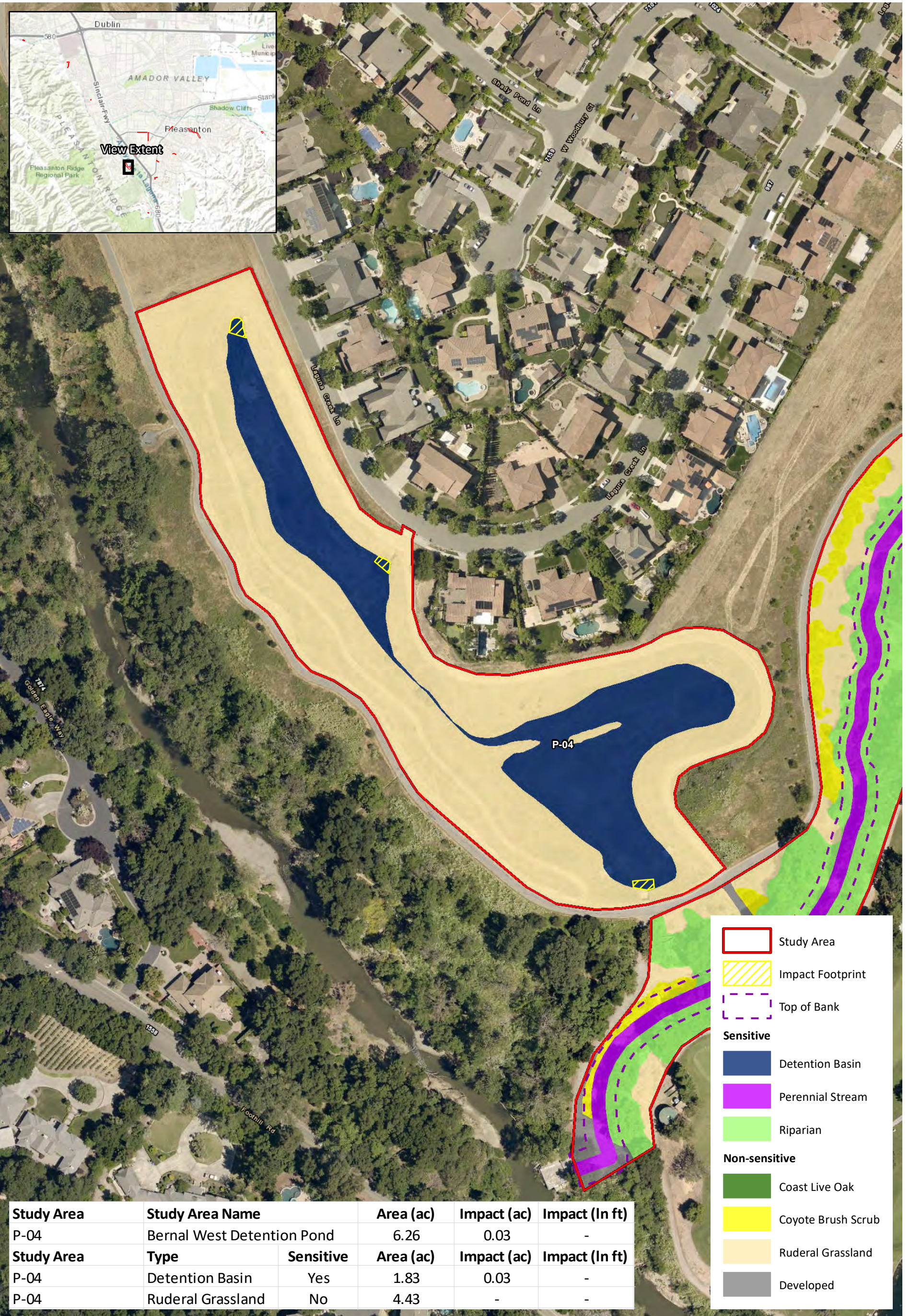
Sources: Alameda County 2017, WRA | Prepared By: mweidenbach, 6/10/2020

**Figure 3-12. Project Impacts (P-02)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California





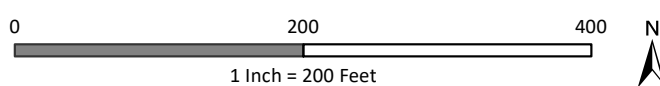


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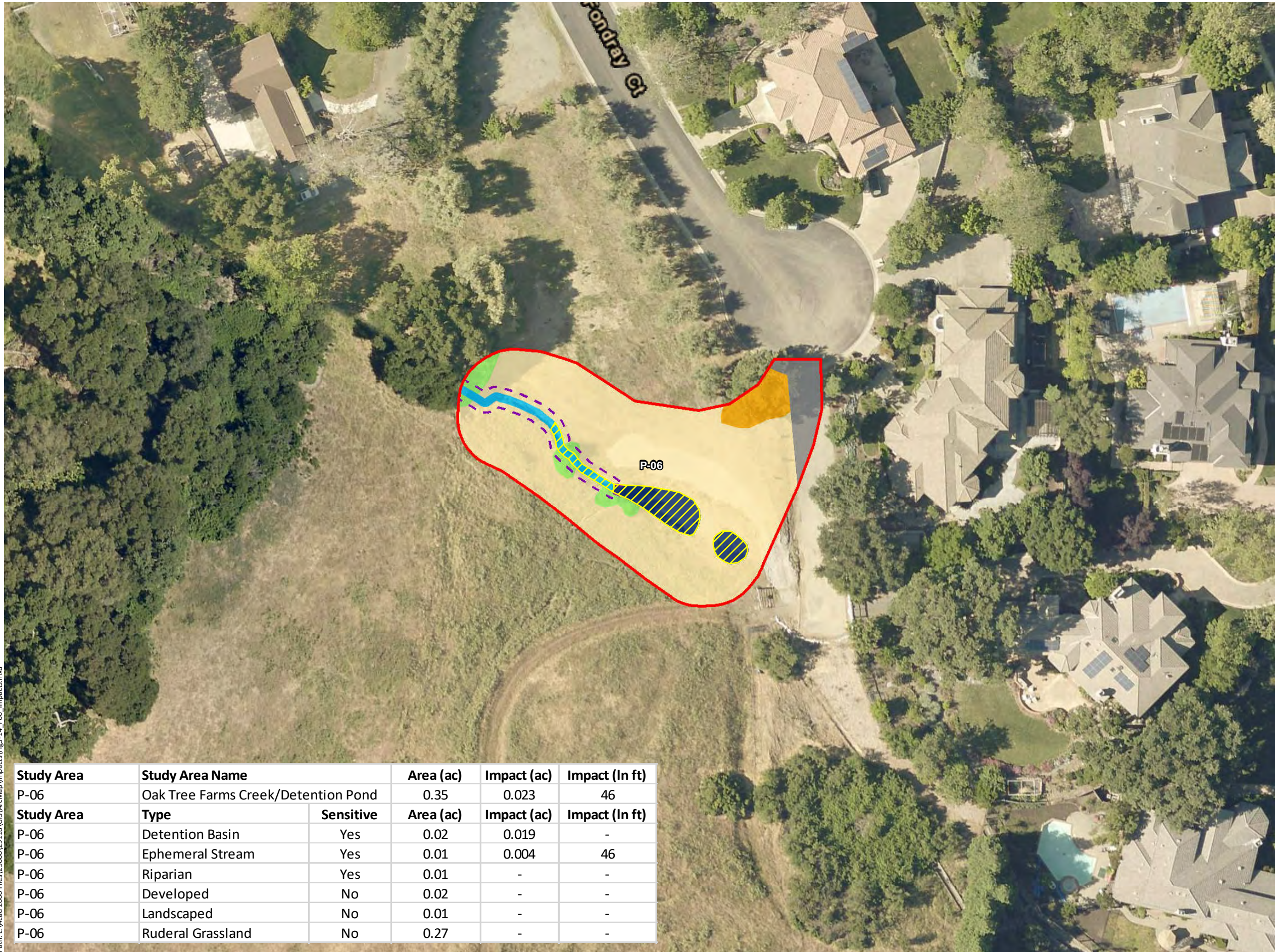
Sources: Alameda County 2017, WRA | Prepared By: mweidenbach, 6/10/2020

**Figure 3-13. Project Impacts (P-04)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California

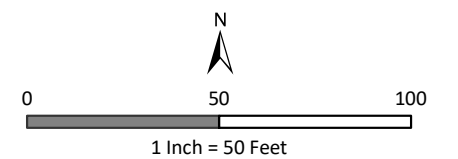
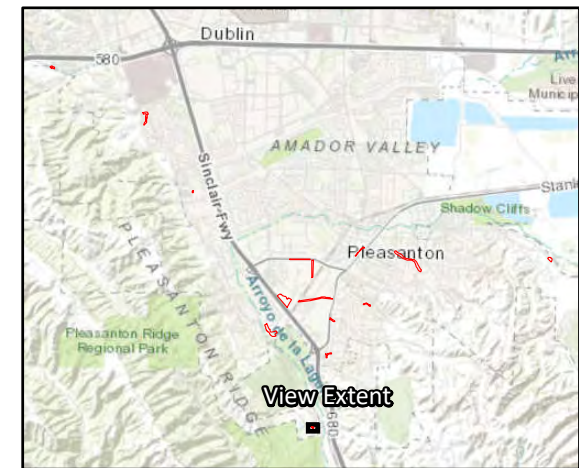
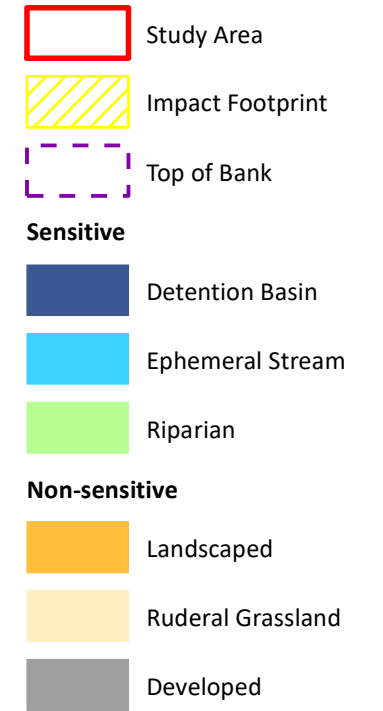






**Figure 3-14.**  
**Project Impacts**  
**(P-06)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California



Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (In ft)	
P-06	Oak Tree Farms Creek/Detention Pond	0.35	0.023	46	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
P-06	Detention Basin	Yes	0.02	0.019	-
P-06	Ephemeral Stream	Yes	0.01	0.004	46
P-06	Riparian	Yes	0.01	-	-
P-06	Developed	No	0.02	-	-
P-06	Landscaped	No	0.01	-	-
P-06	Ruderal Grassland	No	0.27	-	-

Path: L:\Acad 2000 Files\299000\29118\GIS\AcMap\Impact\Figs-14\_P06\_Impacts.mxd

Sources: Alameda County 2017, WRA | Prepared By: mweidenbach, 6/10/2020



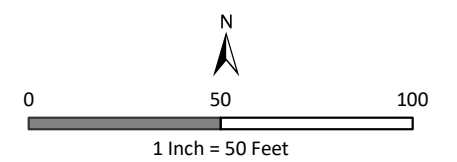
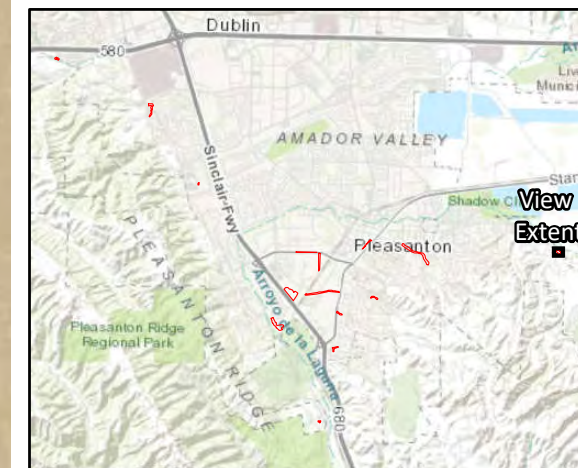




**Figure 3-15.  
Project Impacts  
(P-08)**

City of Pleasanton  
Stream Maintenance Program  
Alameda County, California

- Study Area
- Impact Footprint
- Top of Bank
- Sensitive**
- Detention Basin
- Riparian
- Non-sensitive**
- Ruderal Grassland
- Developed



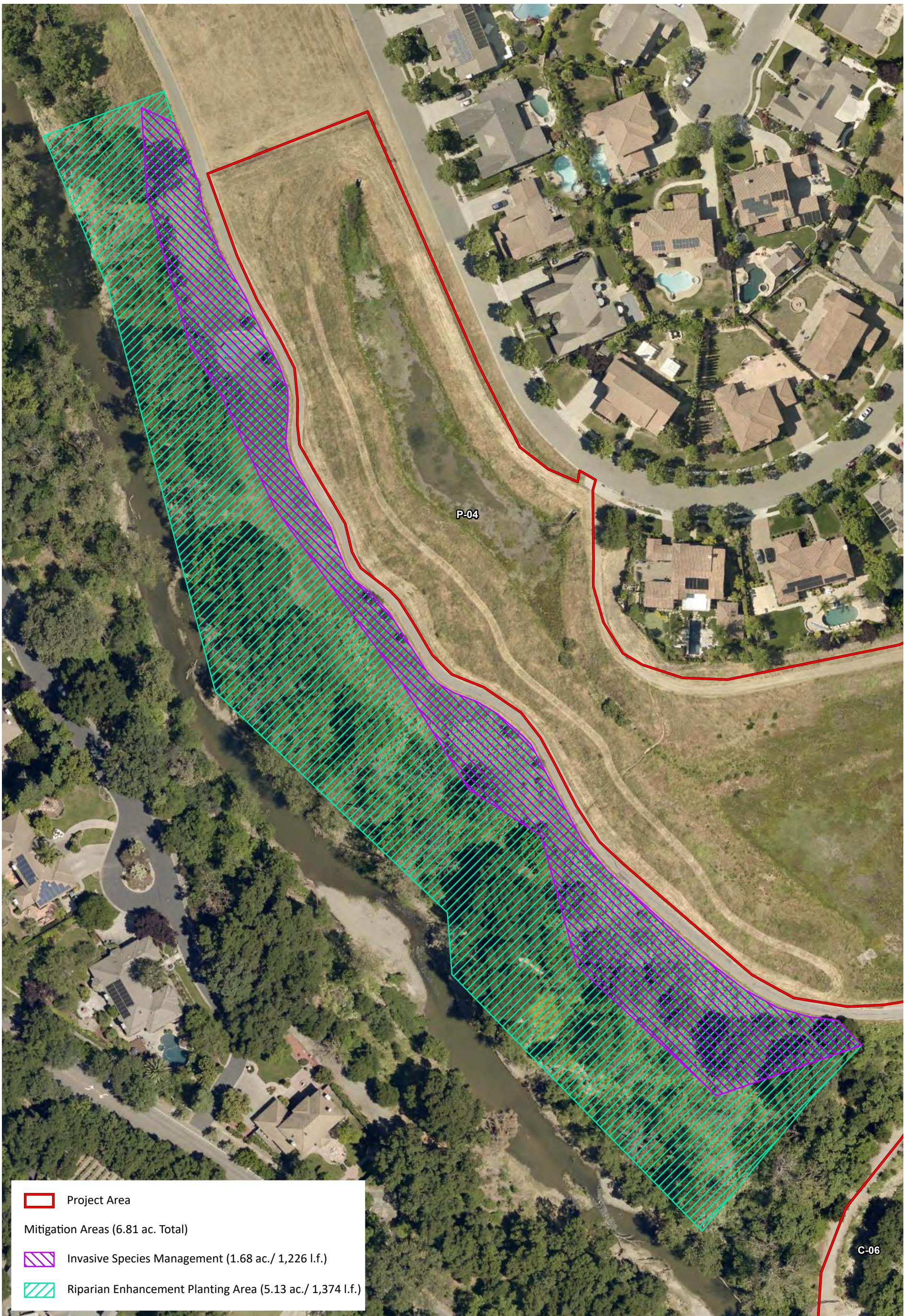
Study Area	Study Area Name	Area (ac)	Impact (ac)	Impact (In ft)	
P-08	Vineyard East Detention Pond	1.33	0.07	-	
Study Area	Type	Sensitive	Area (ac)	Impact (ac)	Impact (In ft)
P-08	Detention Basin	Yes	0.23	0.07	-
P-08	Riparian	Yes	0.01	-	-
P-08	Developed	No	0.33	-	-
P-08	Ruderal	No	0.76	-	-

Path: L:\Acad 2000 Files\29000\29118\GIS\AcMap\Impacts\Figs-15\_P08\_Impacts.mxd

Sources: Alameda County 2017, WRA | Prepared By: mweidenbach, 6/22/2020







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Sources: Solano County Imagery 2017, WRA | Prepared By: njander, 6/8/2021

- Project Area
- Mitigation Areas (6.81 ac. Total)
- Invasive Species Management (1.68 ac./ 1,226 l.f.)
- Riparian Enhancement Planting Area (5.13 ac./ 1,374 l.f.)

**Figure 4. Proposed Mitigation Area - Arroyo de la Laguna**





# Pleasanton Mitigation and Reference Site Map

Mitigation Area (Riparian Enhancement and Invasive Species Management) and Reference Area for mowing regime comparison



## Legend

-  Mitigation Area
-  Mowing Reference Area