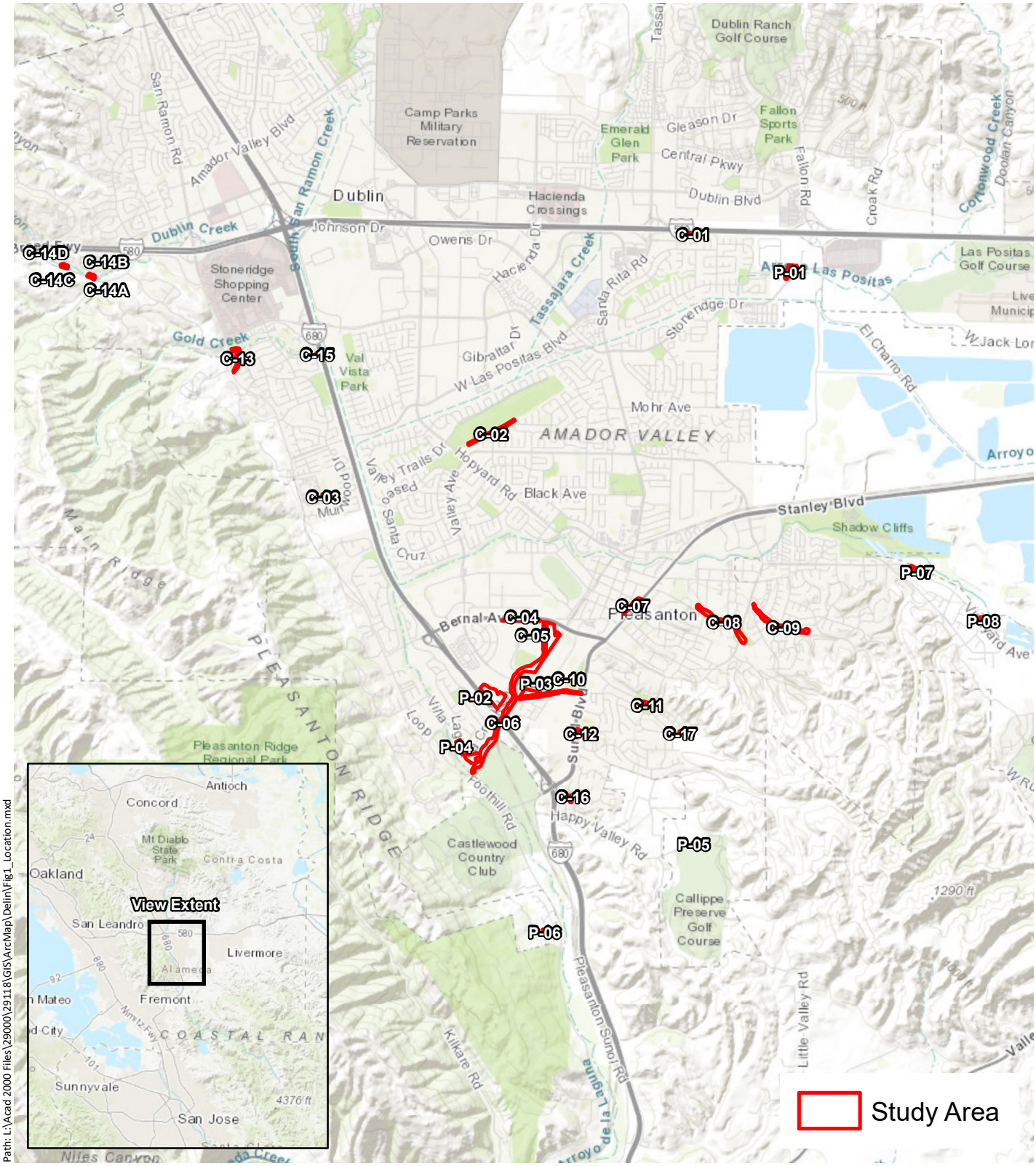

Sources: ESRI World Topo, WRA | Prepared By: SGillespie, 11/19/2019

Figure 1. Study Area Location Map

City of Pleasanton
Stream Maintenance Program
Alameda County, California

0 0.5 1 Miles

N

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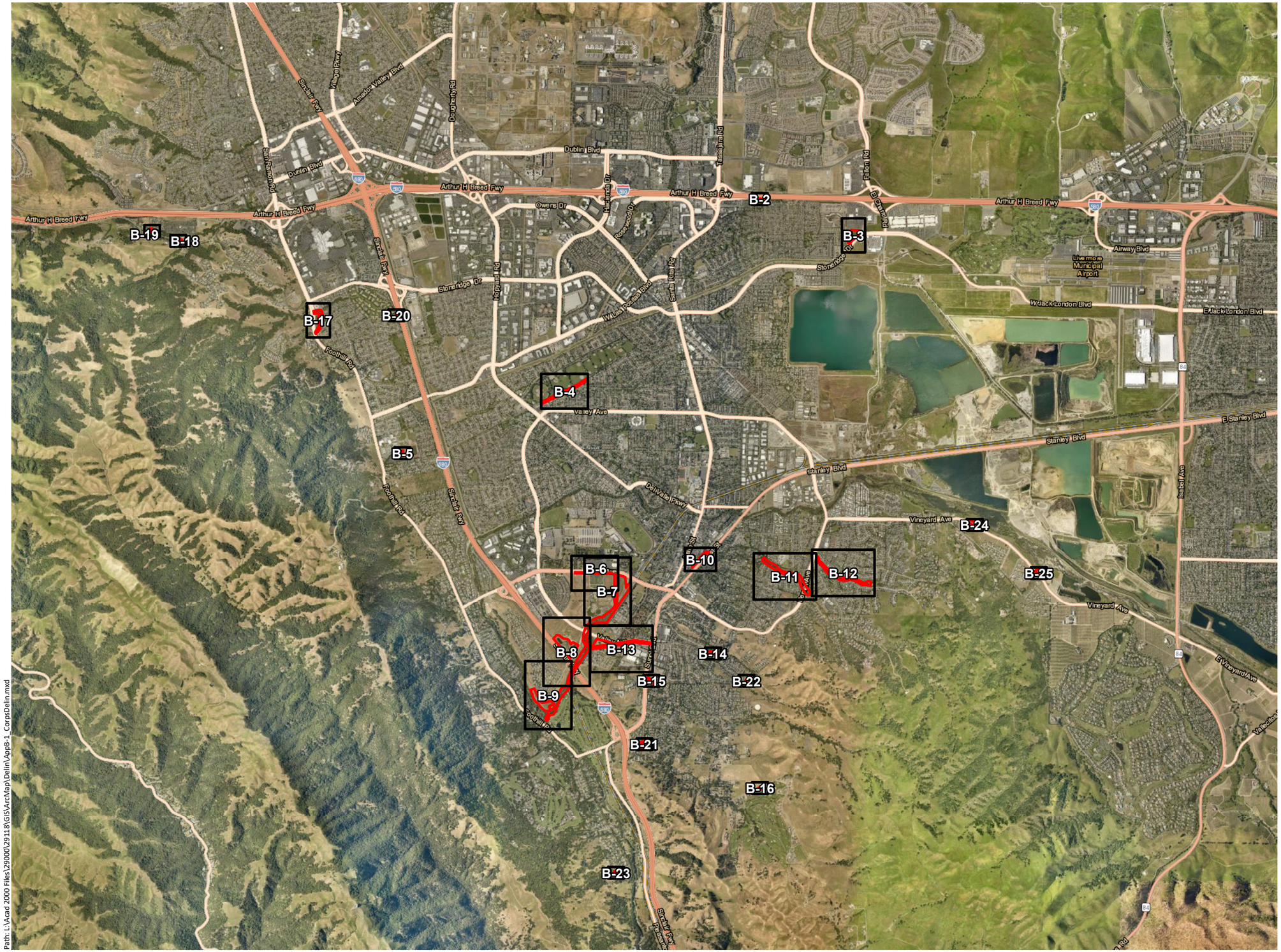
Appendix B-1.
Potential Section 404 Jurisdictional Features (Overview)

City of Pleasanton
Stream Maintenance Program
Alameda County, California



Study Area

Appendix Index

N

0 2,000 4,000

1 Inch = 4000 Feet

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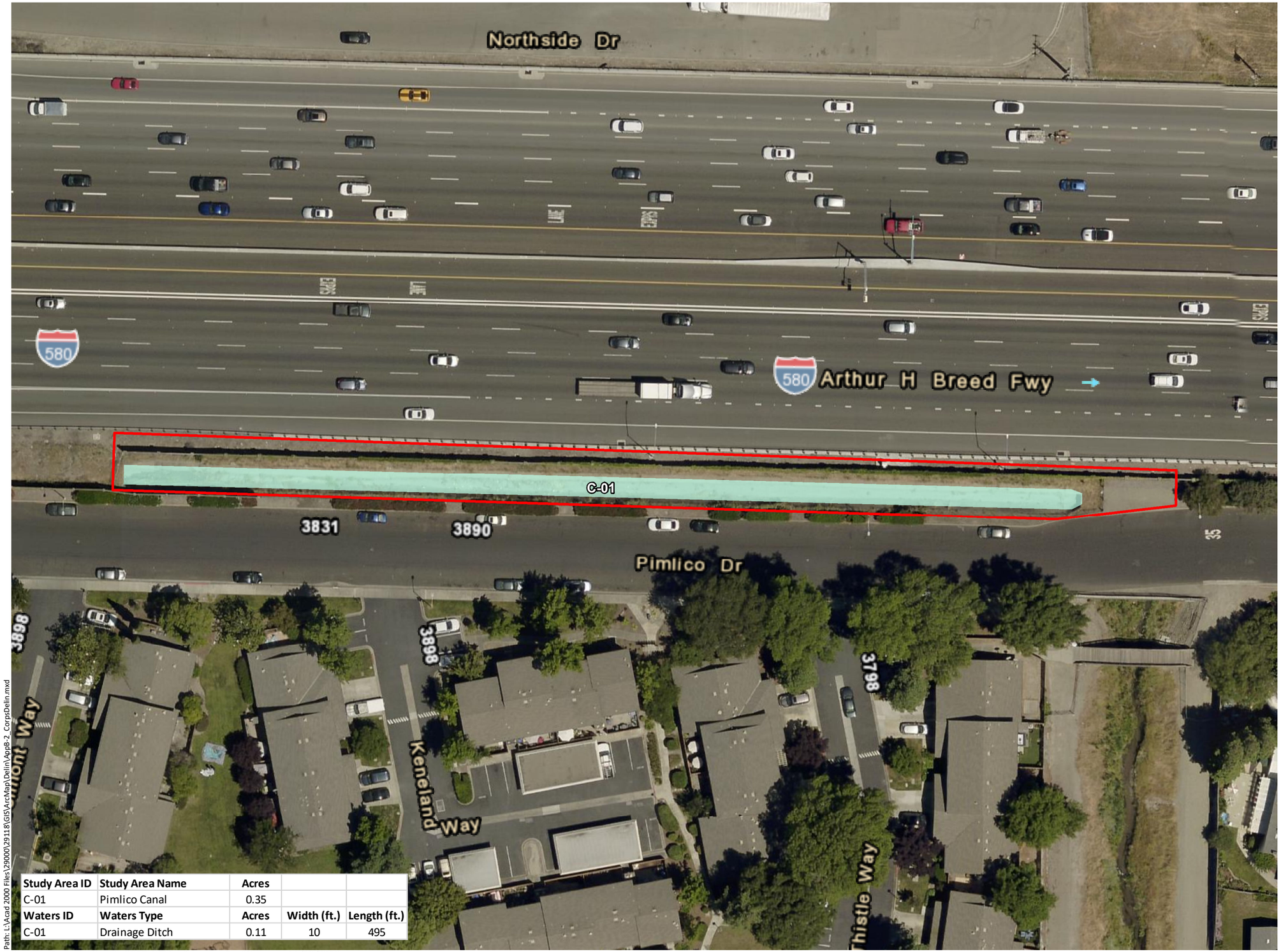
Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-1_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-2.
Potential Section 404 Jurisdictional Features (C-01)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

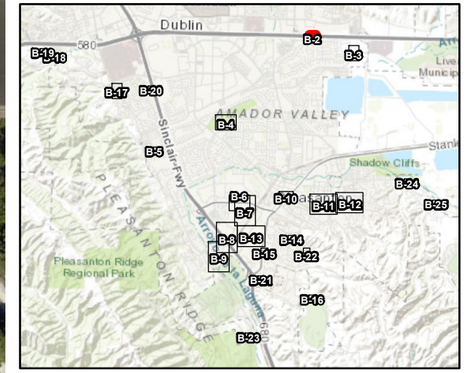


Study Area ID	Study Area Name	Acres		
C-01	Pimlico Canal	0.35		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-01	Drainage Ditch	0.11	10	495

Study Area

Potential Waters of the U.S.

Drainage Ditch



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1 Inch = 50 Feet

wra
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Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-2_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Study Area ID	Study Area Name	Acres		
P-01	Stoneridge Pond	3.75		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
P-01	Detention Pond	1.83	N/A	N/A

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-3_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-3. Potential Section 404 Jurisdictional Features (P-01)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

0 100 200
1 Inch = 200 Feet

N

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Appendix B-4.
Potential Section 404 Jurisdictional Features (C-02)

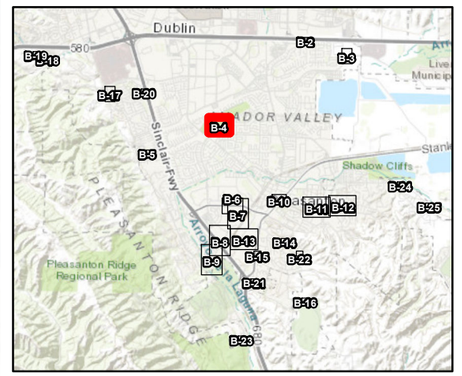
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
C-02	Pleasanton Canal	3.42		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-02	Drainage Ditch	0.71	15	2060

Study Area

Potential Waters of the U.S.

Drainage Ditch



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0 150 300

1 Inch = 150 Feet

wra
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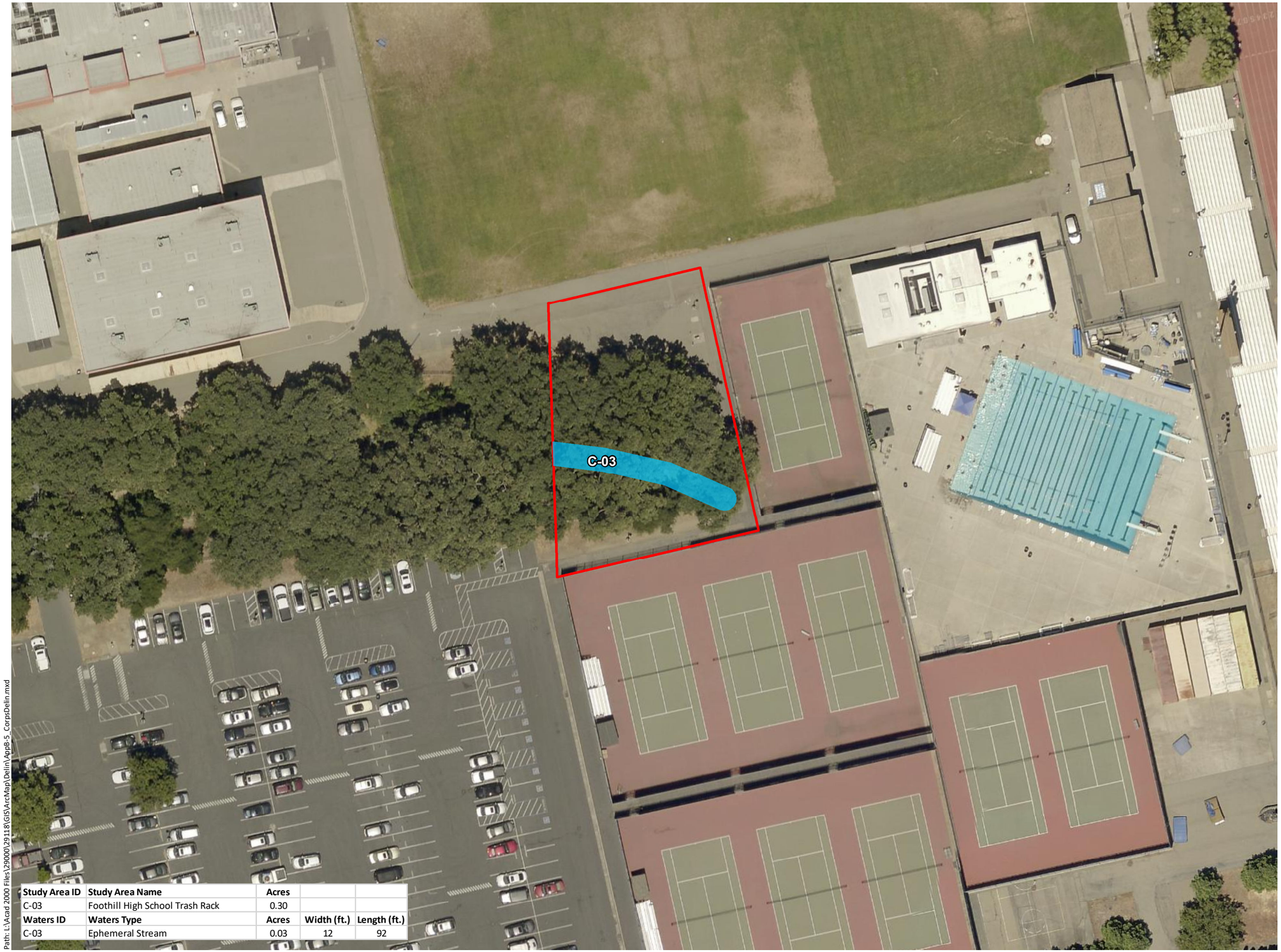
Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-4_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-5.
Potential Section 404 Jurisdictional Features (C-03)

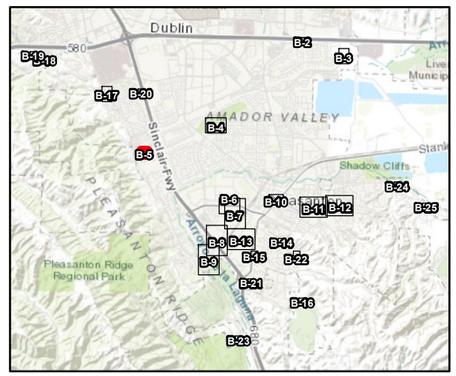
City of Pleasanton
Stream Maintenance Program
Alameda County, California



Study Area

Potential Waters of the U.S.

Ephemeral Stream



N

0 50 100

1 Inch = 50 Feet

Study Area ID	Study Area Name	Acres		
C-03	Foothill High School Trash Rack	0.30		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-03	Ephemeral Stream	0.03	12	92

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-5_CorpsDelin.mxd

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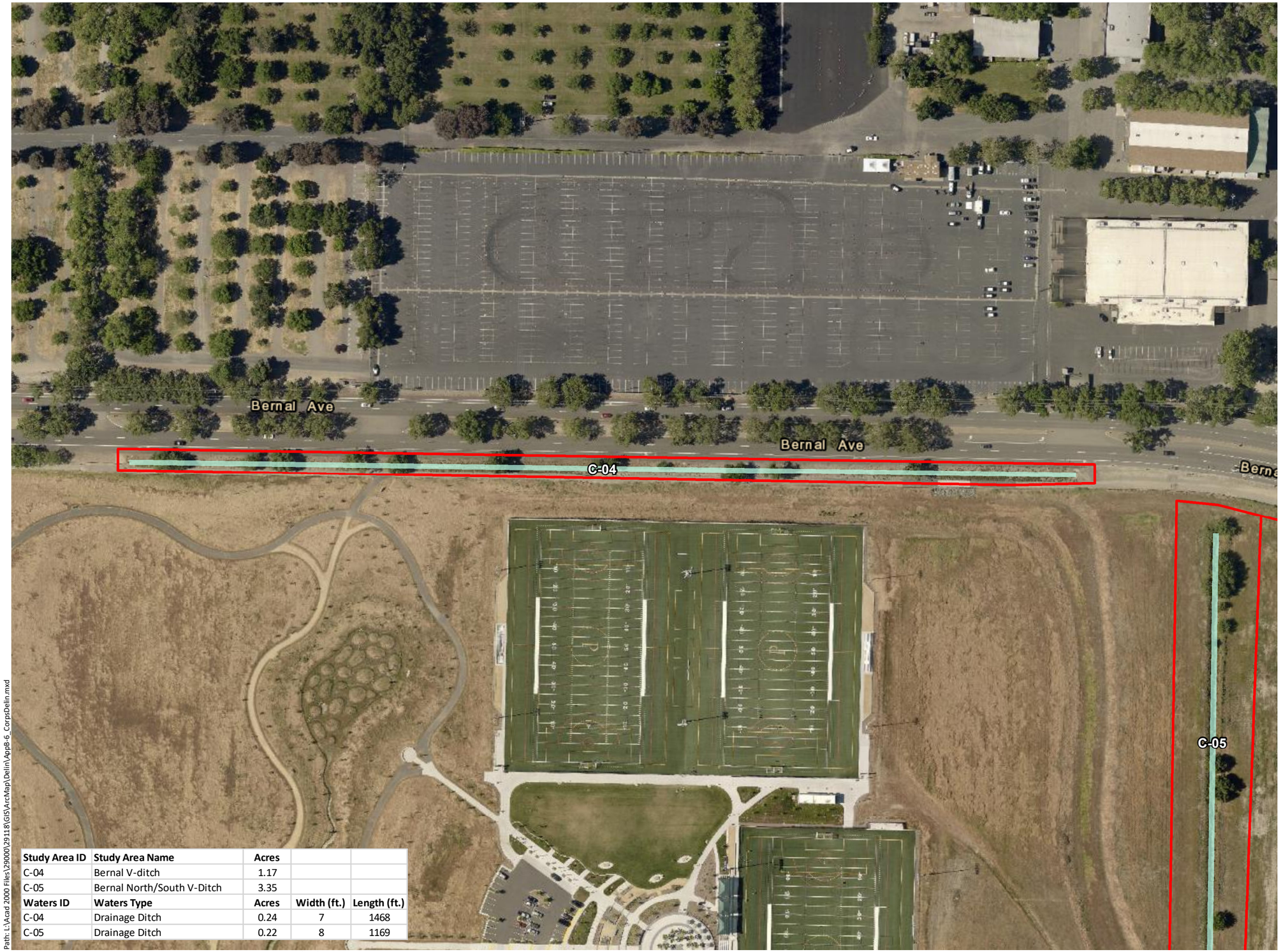
Appendix B-6.
Potential Section 404 Jurisdictional Features (C-04, C-05)

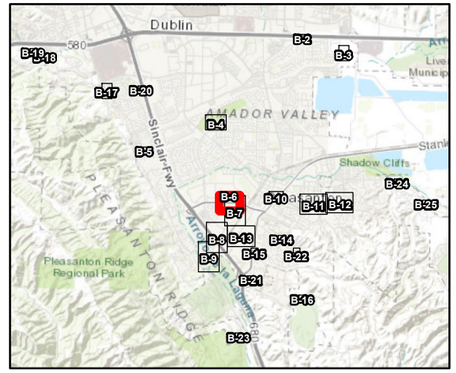
City of Pleasanton
Stream Maintenance Program
Alameda County, California



Study Area

Potential Waters of the U.S.

Drainage Ditch



N

0 150 300

1 Inch = 150 Feet

Study Area ID	Study Area Name	Acres		
C-04	Bernal V-ditch	1.17		
C-05	Bernal North/South V-Ditch	3.35		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-04	Drainage Ditch	0.24	7	1468
C-05	Drainage Ditch	0.22	8	1169

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

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Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-6_CorpsDelin.mxd

Study Area ID	Study Area Name	Acres		
C-04	Bernal V-ditch	1.17		
C-05	Bernal North/South V-Ditch	3.35		
C-06	Mission Creek Restoration Project	31.29		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-04	Drainage Ditch	0.24	7	1468
C-05	Drainage Ditch	0.22	8	1169
C-06A	Ephemeral Stream	0.25	14	780
C-06B	Ephemeral Stream	0.26	8	1408

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-7_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/26/2019

Appendix B-7. Potential Section 404 Jurisdictional Features (C-04, C-05, C-06)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

0 200 400
1 Inch = 200 Feet

N

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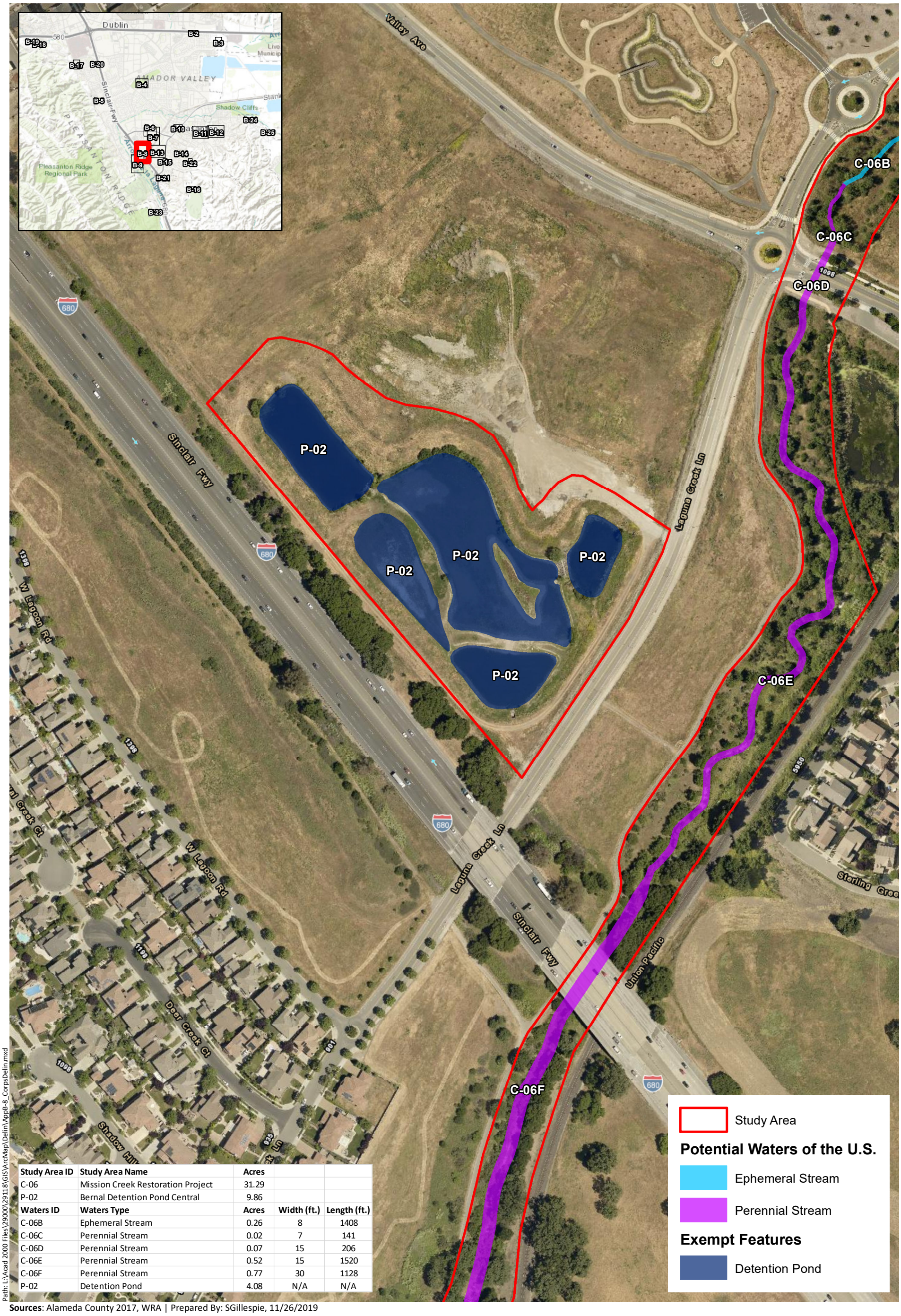

Study Area ID	Study Area Name	Acres		
C-06	Mission Creek Restoration Project	31.29		
P-02	Bernal Detention Pond Central	9.86		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-06B	Ephemeral Stream	0.26	8	1408
C-06C	Perennial Stream	0.02	7	141
C-06D	Perennial Stream	0.07	15	206
C-06E	Perennial Stream	0.52	15	1520
C-06F	Perennial Stream	0.77	30	1128
P-02	Detention Pond	4.08	N/A	N/A

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-8_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/26/2019

Appendix B-8. Potential Section 404 Jurisdictional Features (C-06, P-02)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

0 200 400
1 Inch = 200 Feet

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Study Area ID	Study Area Name	Acres		
C-06	Mission Creek Restoration Project	31.29		
P-04	Bernal West Detention Pond	3.43		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-06F	Perennial Stream	0.77	30	1128
C-06G	Perennial Stream	0.44	20	960
C-06H	Perennial Stream	0.36	20	790
P-04	Detention Pond	1.83	N/A	N/A

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-9_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-9. Potential Section 404 Jurisdictional Features (C-06, P-03)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

0 200 400
1 Inch = 200 Feet

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Appendix B-10. Potential Section 404 Jurisdictional Features (C-07)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

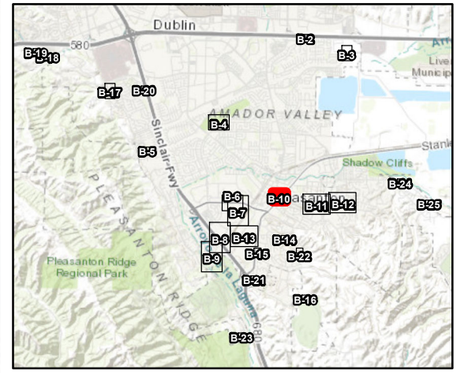
Study Area ID	Study Area Name	Acres		
C-07	Lower Kottinger Creek	0.92		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-07A	Ephemeral Stream	0.10	8	542
C-07B	Intermittent Stream	0.16	8	328

Study Area

Potential Waters of the U.S.

Ephemeral Stream

Intermittent Stream



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1 Inch = 100 Feet

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Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-11.
Potential Section 404 Jurisdictional Features (C-08)

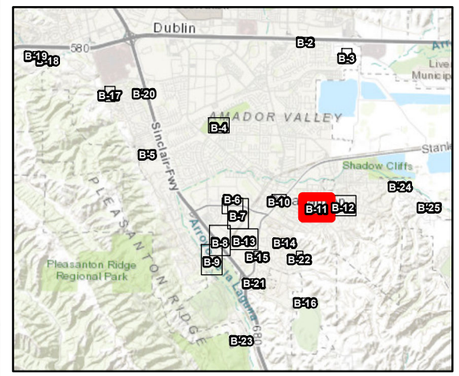
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
C-08	Upper Kottinger Creek	8.01		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-08	Intermittent Stream	0.34	6	2450

Study Area

Potential Waters of the U.S.

Intermittent Stream



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1 Inch = 150 Feet

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Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-11_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-12.
Potential Section 404 Jurisdictional Features (C-09)

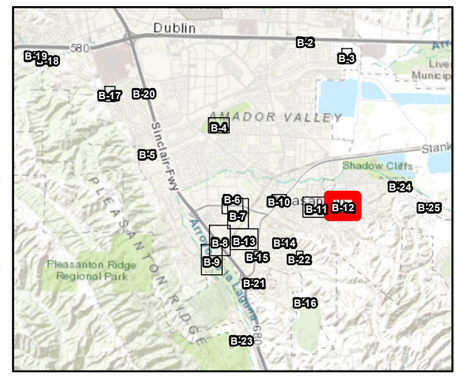
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
C-09	Touriga Creek	6.63		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-09	Intermittent Stream	0.58	10	2537

Study Area

Potential Waters of the U.S.

Intermittent Stream



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1 Inch = 150 Feet

ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-12_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-13.
Potential Section 404 Jurisdictional Features (C-10, P-03)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
C-10	Junipero Canal	5.18		
P-03	Canyon Oaks Detention Pond	3.43		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-10A	Drainage Ditch	0.89	25	1577
C-10B	Drainage Ditch	0.27	15	795
P-03	Detention Pond	1.36	N/A	N/A

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

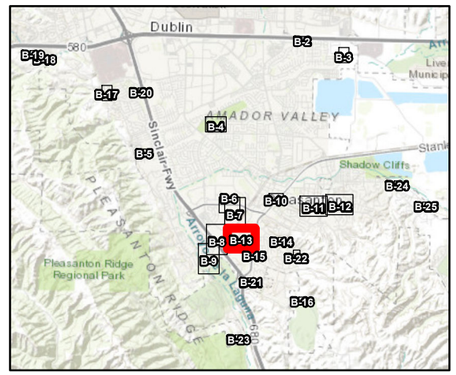
Study Area

Potential Waters of the U.S.

Drainage Ditch

Exempt Features

Detention Pond



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0 150 300

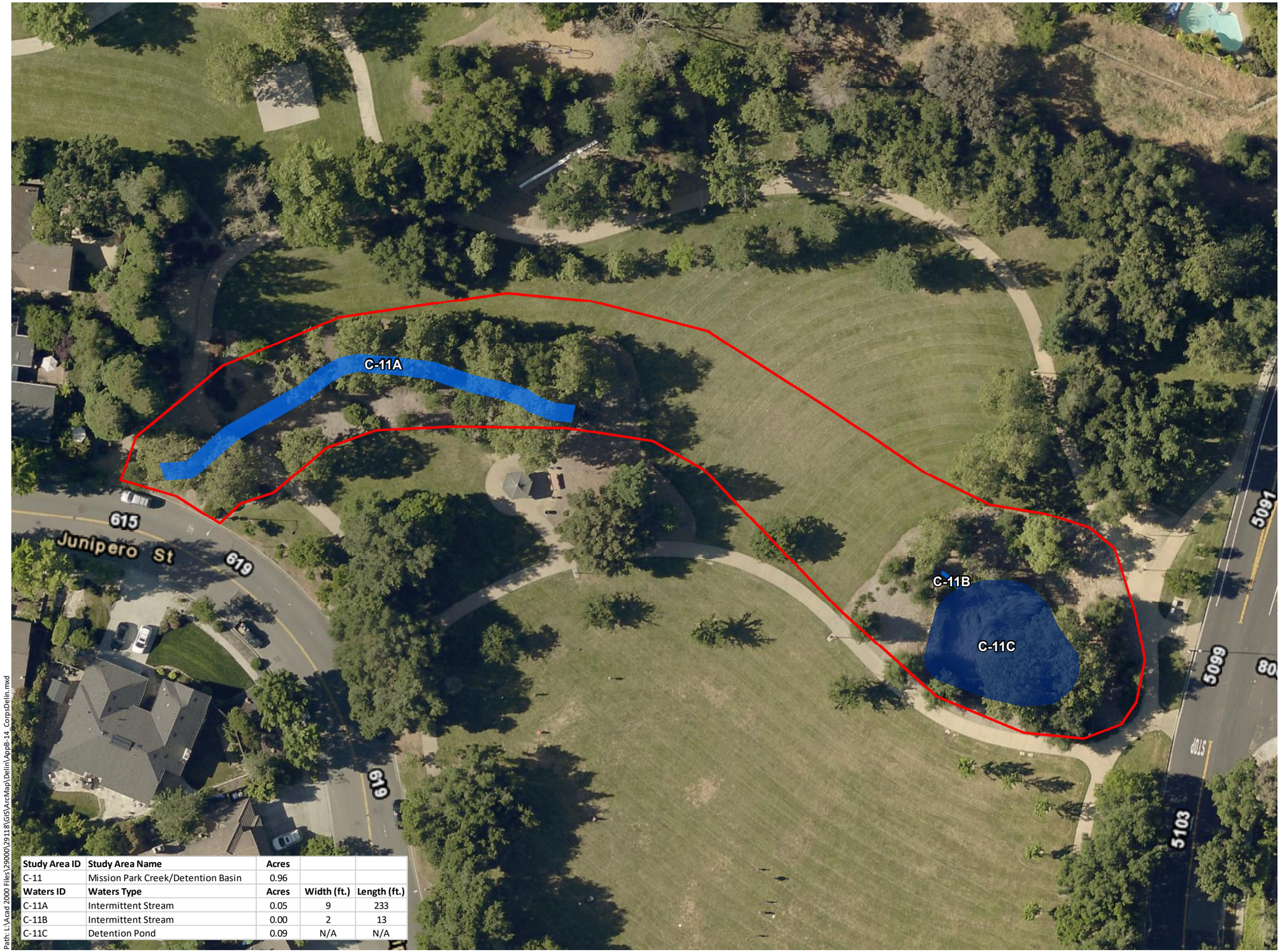
1 Inch = 150 Feet

ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-13_CorpsDelin.mxd

Appendix B-14. Potential Section 404 Jurisdictional Features (C-11)

City of Pleasanton
Stream Maintenance Program
Alameda County, California



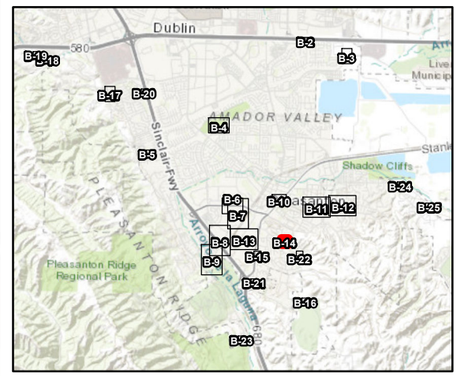
Study Area ID	Study Area Name	Acres		
C-11	Mission Park Creek/Detention Basin	0.96		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-11A	Intermittent Stream	0.05	9	233
C-11B	Intermittent Stream	0.00	2	13
C-11C	Detention Pond	0.09	N/A	N/A

Study Area

Potential Waters of the U.S.

Detention Pond

Intermittent Stream



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0 50 100

1 Inch = 50 Feet

wra
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Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-14_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-15.
Potential Section 404 Jurisdictional Features (C-12)

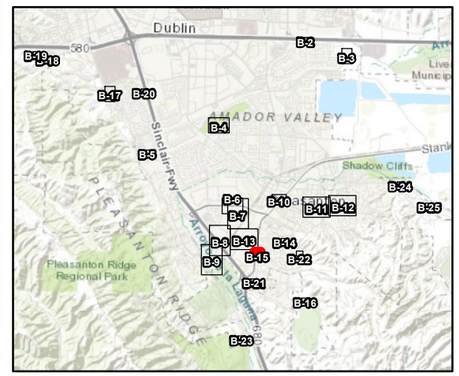
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
C-12	Cemetery Creek	0.81		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-12	Ephemeral Stream	0.05	6	365

Study Area

Potential Waters of the U.S.

Ephemeral Stream



N

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1 Inch = 50 Feet

wra
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Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-15_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

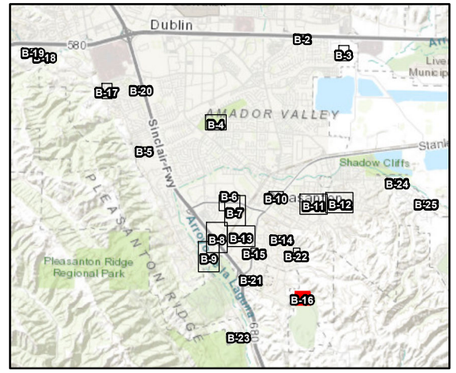
Appendix B-16.
Potential Section 404 Jurisdictional Features (P-05)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area

Exempt Features

Detention Pond



N

0 50 100

1 Inch = 50 Feet

Study Area ID	Study Area Name	Acres		
P-05	Callippe Detention Pond	0.18		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
P-05	Detention Pond	0.08	N/A	N/A

wra
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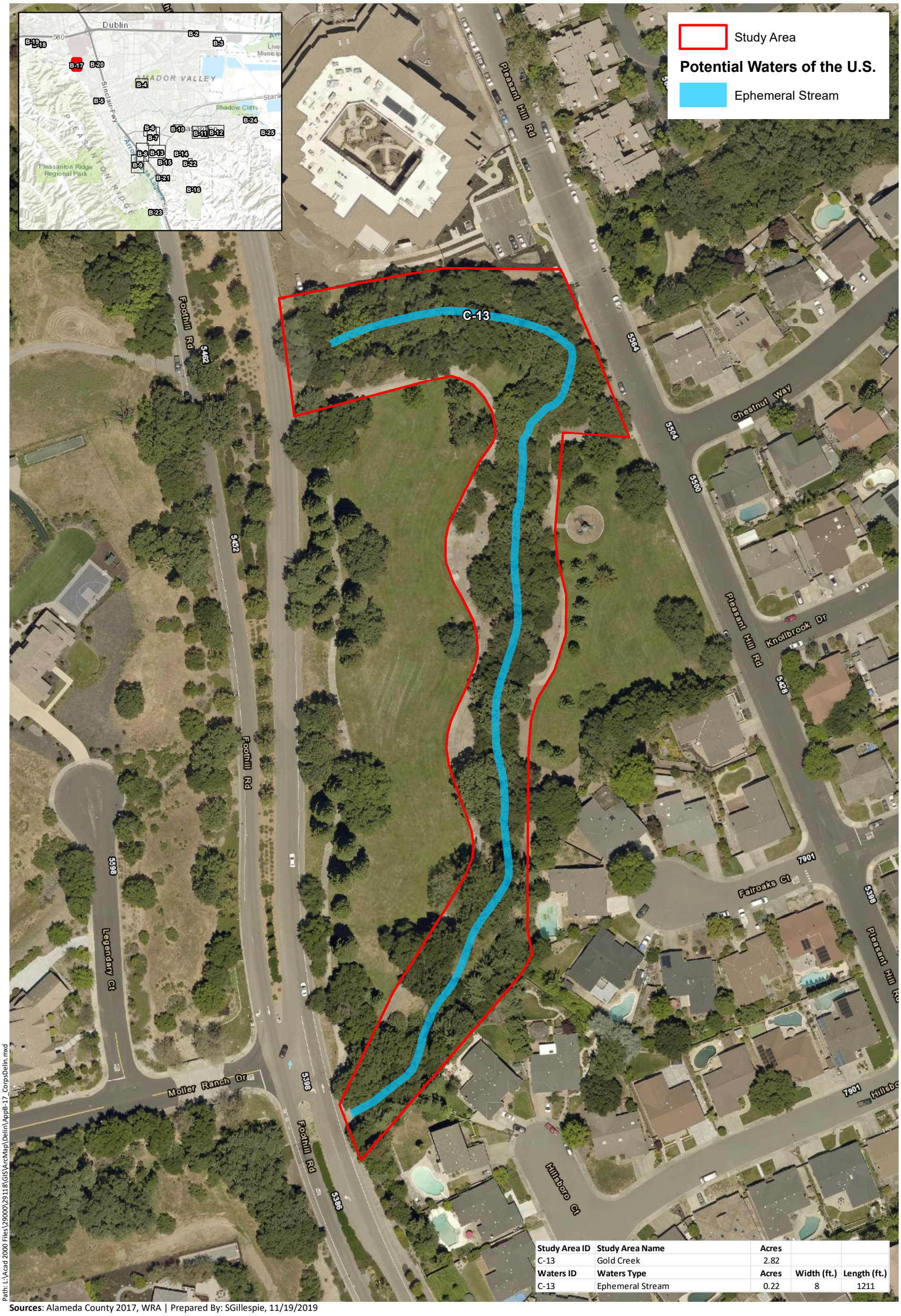
Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-16_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019



Study Area ID	Study Area Name	Acres		
C-13	Gold Creek	2.82		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-13	Ephemeral Stream	0.22	8	1211

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-17_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-17. Potential Section 404 Jurisdictional Features (C-13)

City of Pleasanton
Stream Maintenance Program
Alameda County, California

0 100 200
1 Inch = 200 Feet

N

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Appendix B-18. Potential Section 404 Jurisdictional Features (C-14A, C-14B)

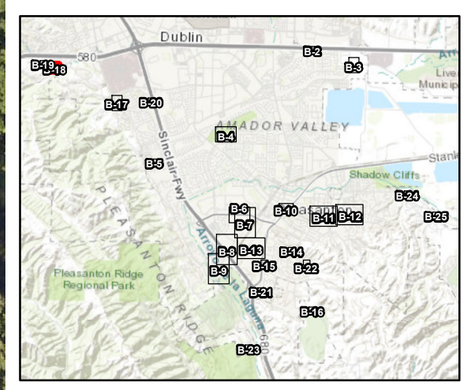
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
C-14A	Dublin Canyon Creek Segment A	0.52		
C-14B	Dublin Canyon Creek Segment B	0.37		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-14A	Perennial Stream	0.05	15	157
C-14B	Perennial Stream	0.04	15	126

Study Area

Potential Waters of the U.S.

Perennial Stream



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1 Inch = 50 Feet

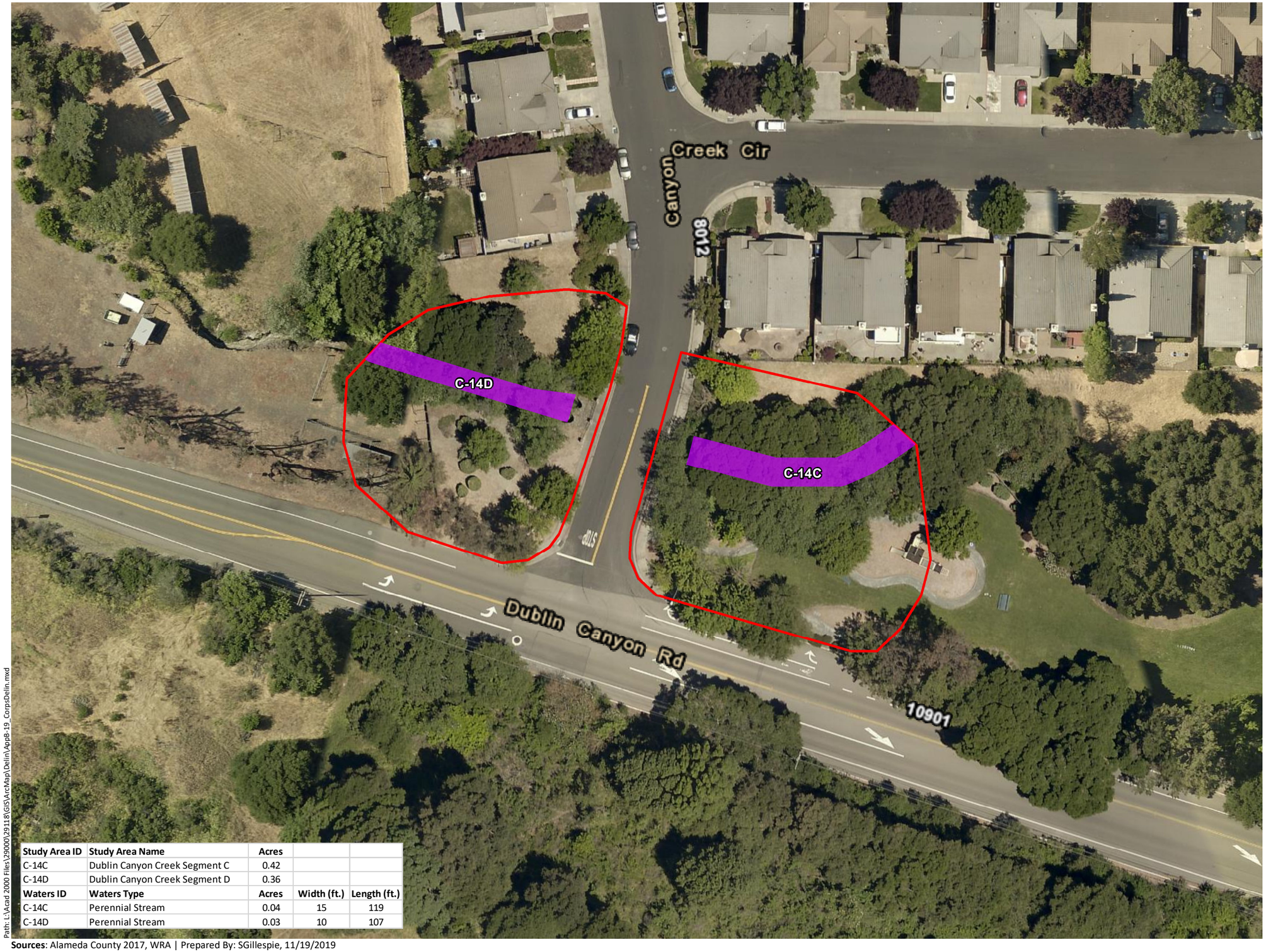
wra
ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-18_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-19. Potential Section 404 Jurisdictional Features (C-14C, C-14D)

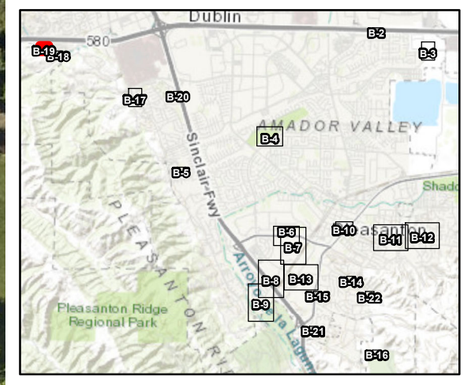
City of Pleasanton
Stream Maintenance Program
Alameda County, California



Study Area

Potential Waters of the U.S.

Perennial Stream



N

0 50 100

1 Inch = 50 Feet

Study Area ID	Study Area Name	Acres		
C-14C	Dublin Canyon Creek Segment C	0.42		
C-14D	Dublin Canyon Creek Segment D	0.36		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-14C	Perennial Stream	0.04	15	119
C-14D	Perennial Stream	0.03	10	107

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-19_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

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Appendix B-20.
Potential Section 404 Jurisdictional Features (C-15)

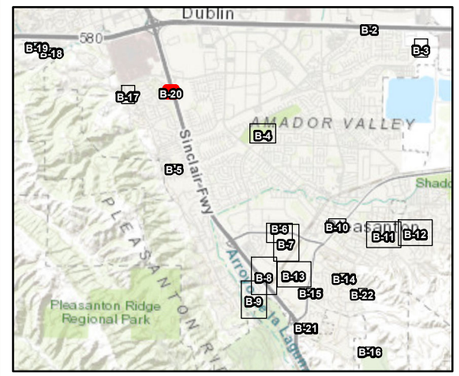
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
C-15	Stonedale Channel	0.08		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-15	Drainage Ditch	0.01	6	67

Study Area

Potential Waters of the U.S.

Drainage Ditch



N

0 50 100

1 Inch = 50 Feet

wra
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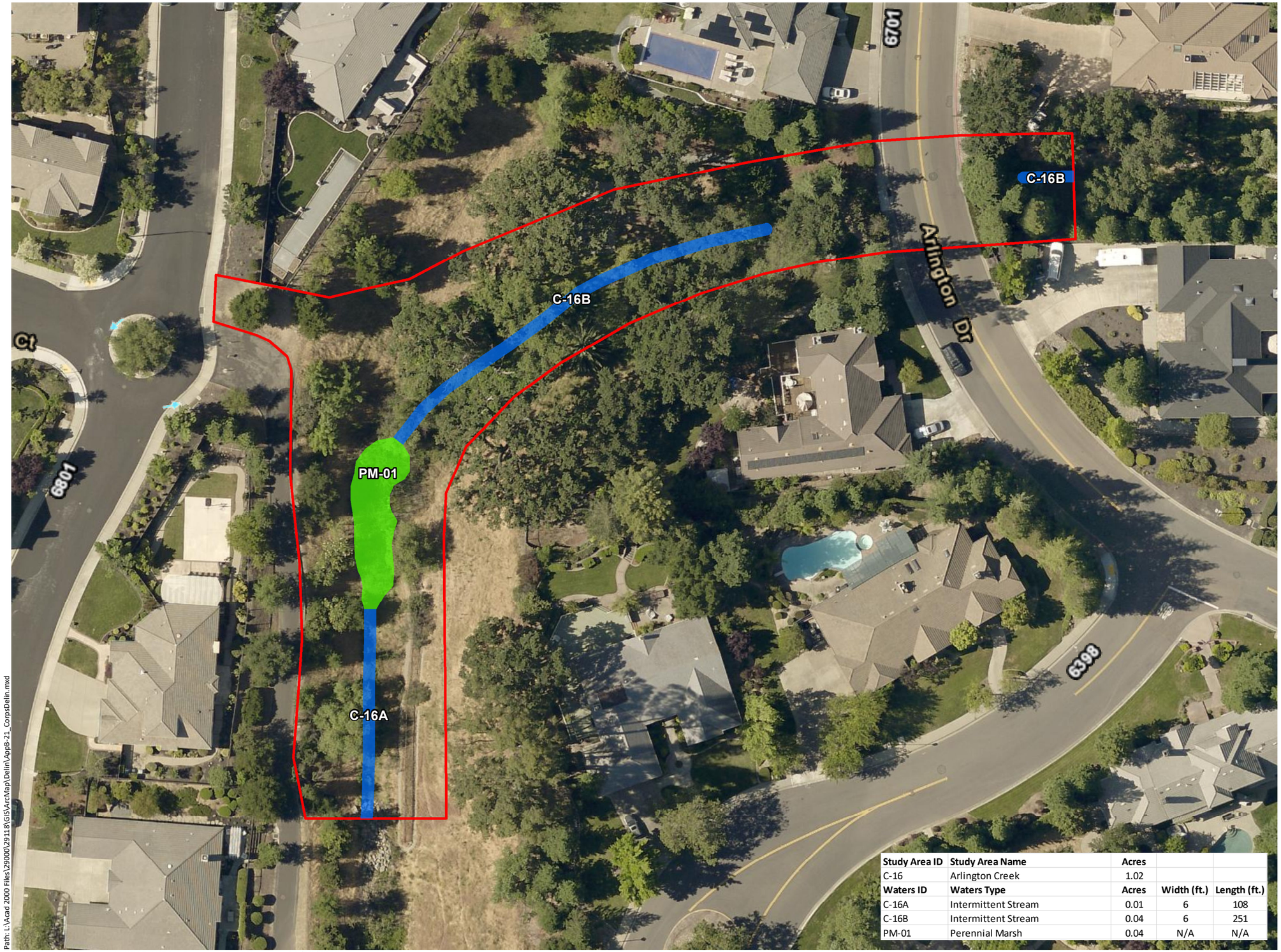
Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-20_CorpsDelin.mxd

Appendix B-21. Potential Section 404 Jurisdictional Features (C-16)

City of Pleasanton
Stream Maintenance Program
Alameda County, California



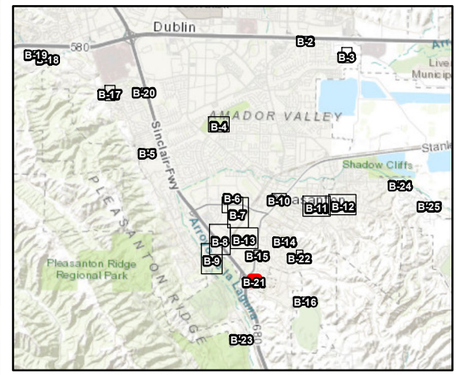
Study Area ID	Study Area Name	Acres		
C-16	Arlington Creek	1.02		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-16A	Intermittent Stream	0.01	6	108
C-16B	Intermittent Stream	0.04	6	251
PM-01	Perennial Marsh	0.04	N/A	N/A

Study Area

Potential Waters of the U.S.

Perennial Marsh

Intermittent Stream



N

0 50 100

1 Inch = 50 Feet

wra
ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-21_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-22.
Potential Section 404 Jurisdictional Features (C-17)

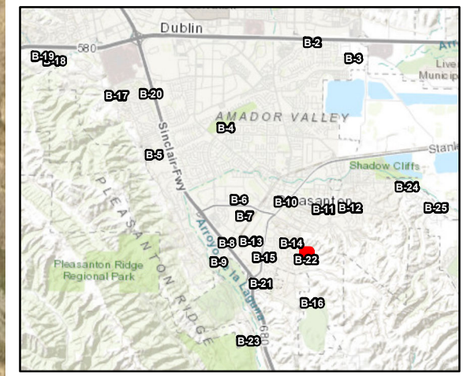
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
C-17	Rutledge Place Culvert	0.09		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-17	Ephemeral Stream	0.01	5	60

Study Area

Potential Waters of the U.S.

Ephemeral Stream



N

0 50 100

1 Inch = 50 Feet

wra
ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-22_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-23. Potential Section 404 Jurisdictional Features (P-06)

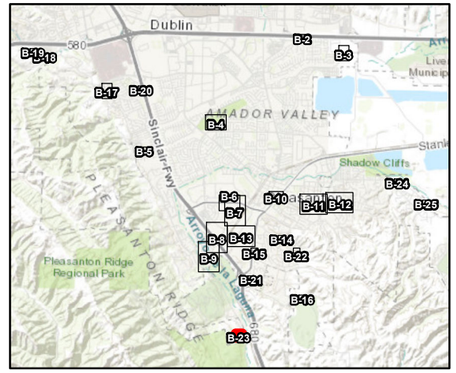
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area

Potential Waters of the U.S.

Detention Pond

Ephemeral Stream



N

0 50 100

1 Inch = 50 Feet

Study Area ID	Study Area Name	Acres		
P-06	Oak Tree Farms Creek/Detention Pond	0.35		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
C-18	Ephemeral Stream	0.01	4	102
P-06	Detention Pond	0.02	N/A	N/A

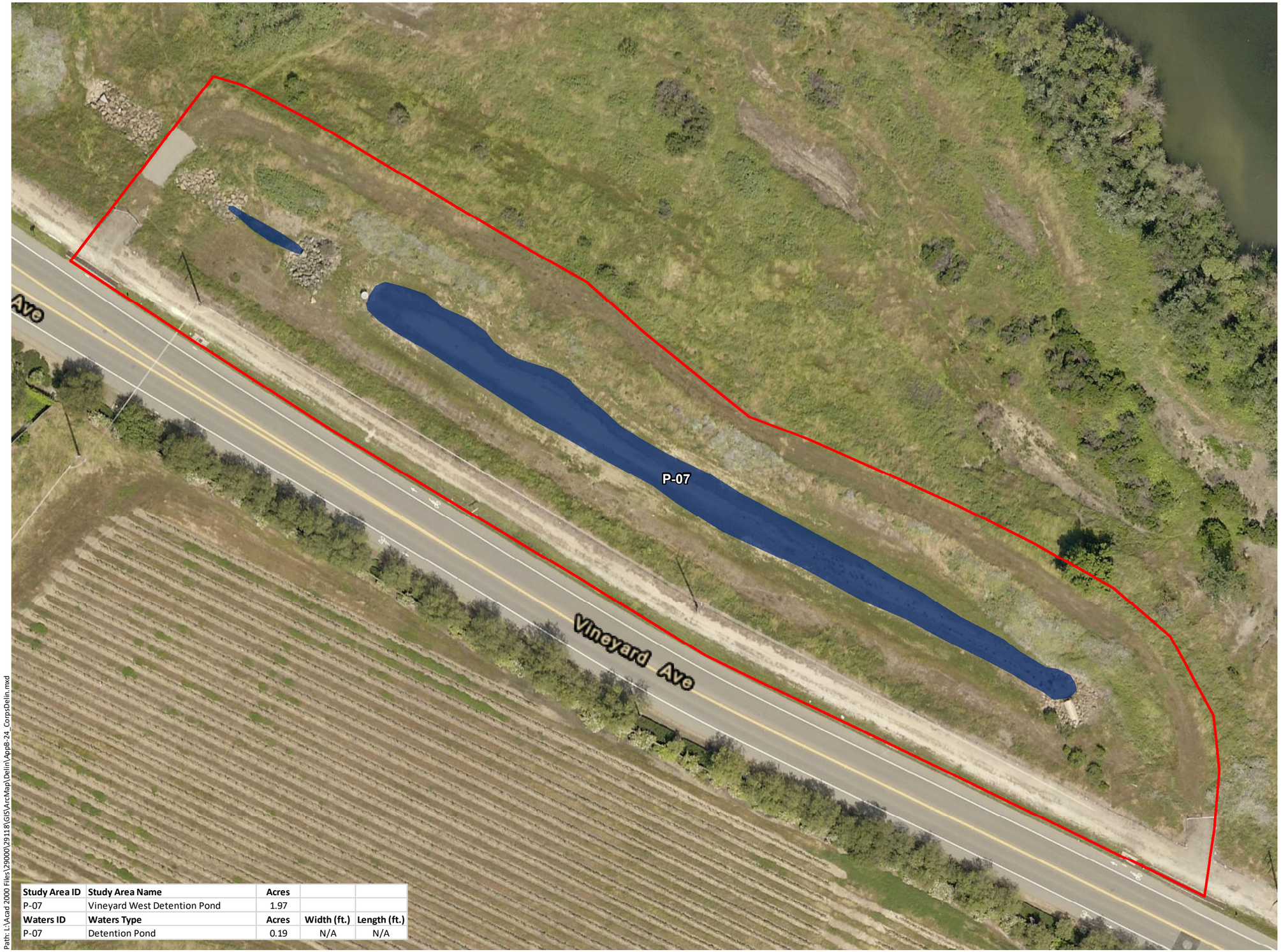
wra
ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-23_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

Appendix B-24. Potential Section 404 Jurisdictional Features (P-07)

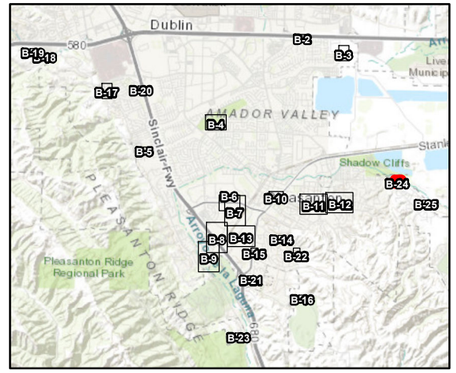
City of Pleasanton
Stream Maintenance Program
Alameda County, California



Study Area

Exempt Features

Detention Pond



N

0 50 100

1 Inch = 50 Feet

Study Area ID	Study Area Name	Acres		
P-07	Vineyard West Detention Pond	1.97		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
P-07	Detention Pond	0.19	N/A	N/A

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019

wra
ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-24_CorpsDelin.mxd

Appendix B-25. Potential Section 404 Jurisdictional Features (P-08)

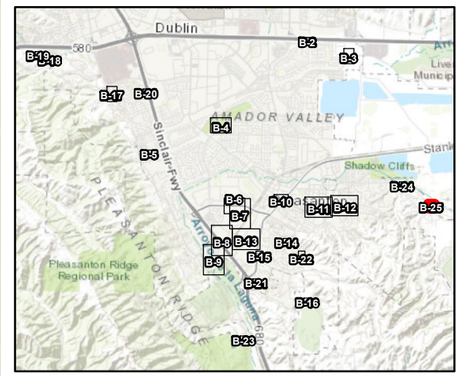
City of Pleasanton
Stream Maintenance Program
Alameda County, California

Study Area ID	Study Area Name	Acres		
P-08	Vineyard West Detention Pond	1.45		
Waters ID	**Waters Type**	**Acres**	**Width (ft.)**	**Length (ft.)**
P-08	Detention Pond	0.23	N/A	N/A

Study Area

Exempt Features

Detention Pond



N

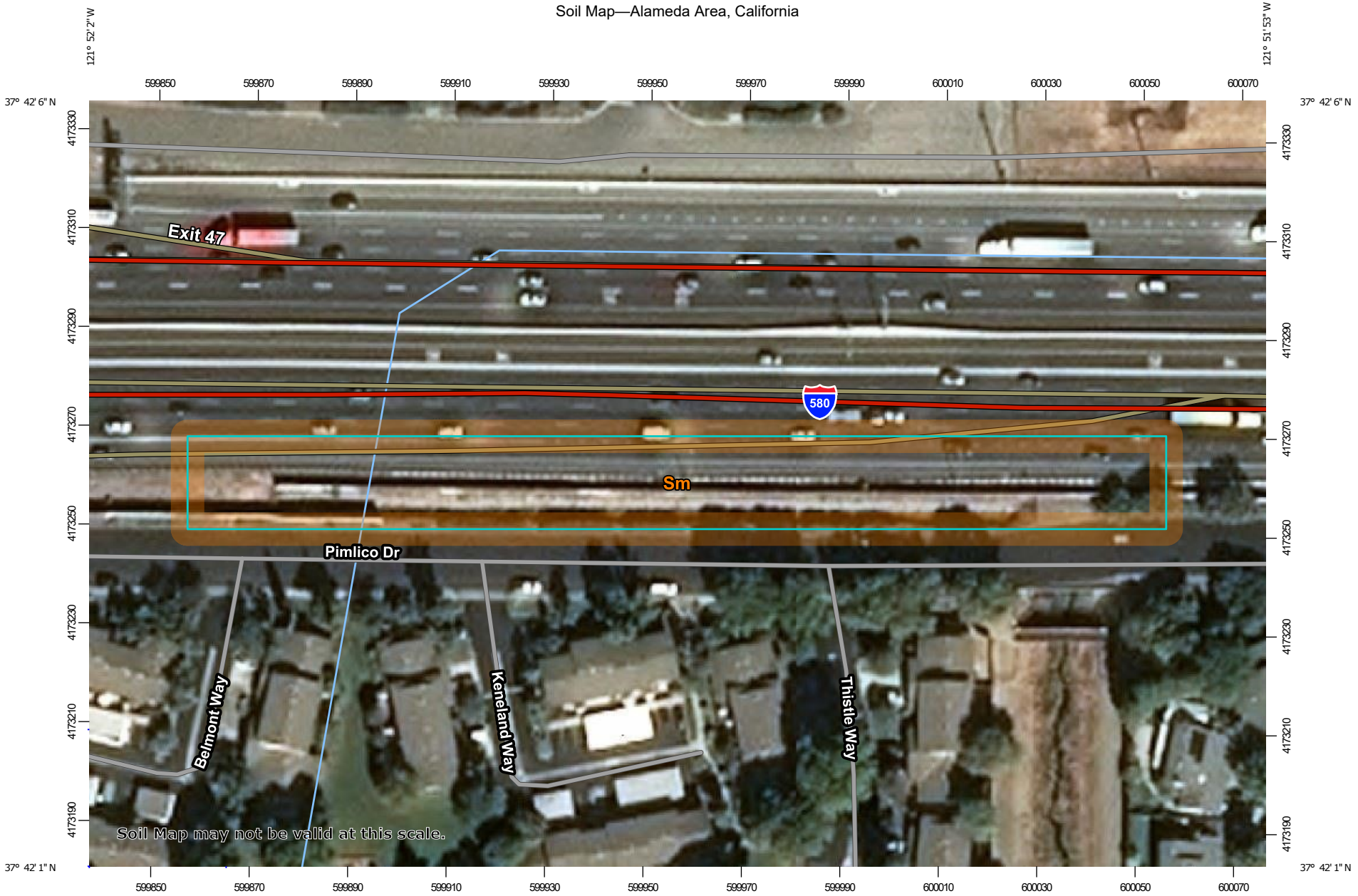
0 50 100

1 Inch = 50 Feet

wra
ENVIRONMENTAL CONSULTANTS

Path: L:\Acad 2000 Files\29000\29118\GIS\ArcMap\Delin\AppB-25_CorpsDelin.mxd

Sources: Alameda County 2017, WRA | Prepared By: SGillespie, 11/19/2019



Map Scale: 1:1,090 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alameda Area, California
Survey Area Data: Version 12, Sep 14, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Sm	Sunnyvale clay loam over clay	0.9	100.0%
Totals for Area of Interest		**0.9**	**100.0%**

Map Scale: 1:3,140 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 45 90 180 270

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Sm	Sunnyvale clay loam over clay	5.3	100.0%
Totals for Area of Interest		**5.3**	**100.0%**

Map Scale: 1:301 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 4 8 16 24

Feet: 0 10 20 40 60

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Survey Area Data: Version 12, Sep 14, 2018

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Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DaB	Danville silty clay loam, 3 to 10 percent slopes	0.3	100.0%
Totals for Area of Interest		**0.3**	**100.0%**

Map Scale: 1:2,500 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Survey Area Data: Version 12, Sep 14, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Sn	Sunnyvale clay loam, drained	0.3	15.4%
So	Sycamore silt loam, 0 to 2 percent slopes, MLRA 14	0.1	3.9%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	1.5	80.6%
Totals for Area of Interest		**1.9**	**100.0%**

Soil Map—Alameda Area, California

Map Scale: 1:2,380 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0, 35, 70, 140, 210

Feet: 0, 100, 200, 400, 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
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- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alameda Area, California
Survey Area Data: Version 12, Sep 14, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Sm	Sunnyvale clay loam over clay	0.3	11.1%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	2.8	88.9%
Totals for Area of Interest		**3.1**	**100.0%**

Map Scale: 1:4,390 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alameda Area, California
Survey Area Data: Version 12, Sep 14, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

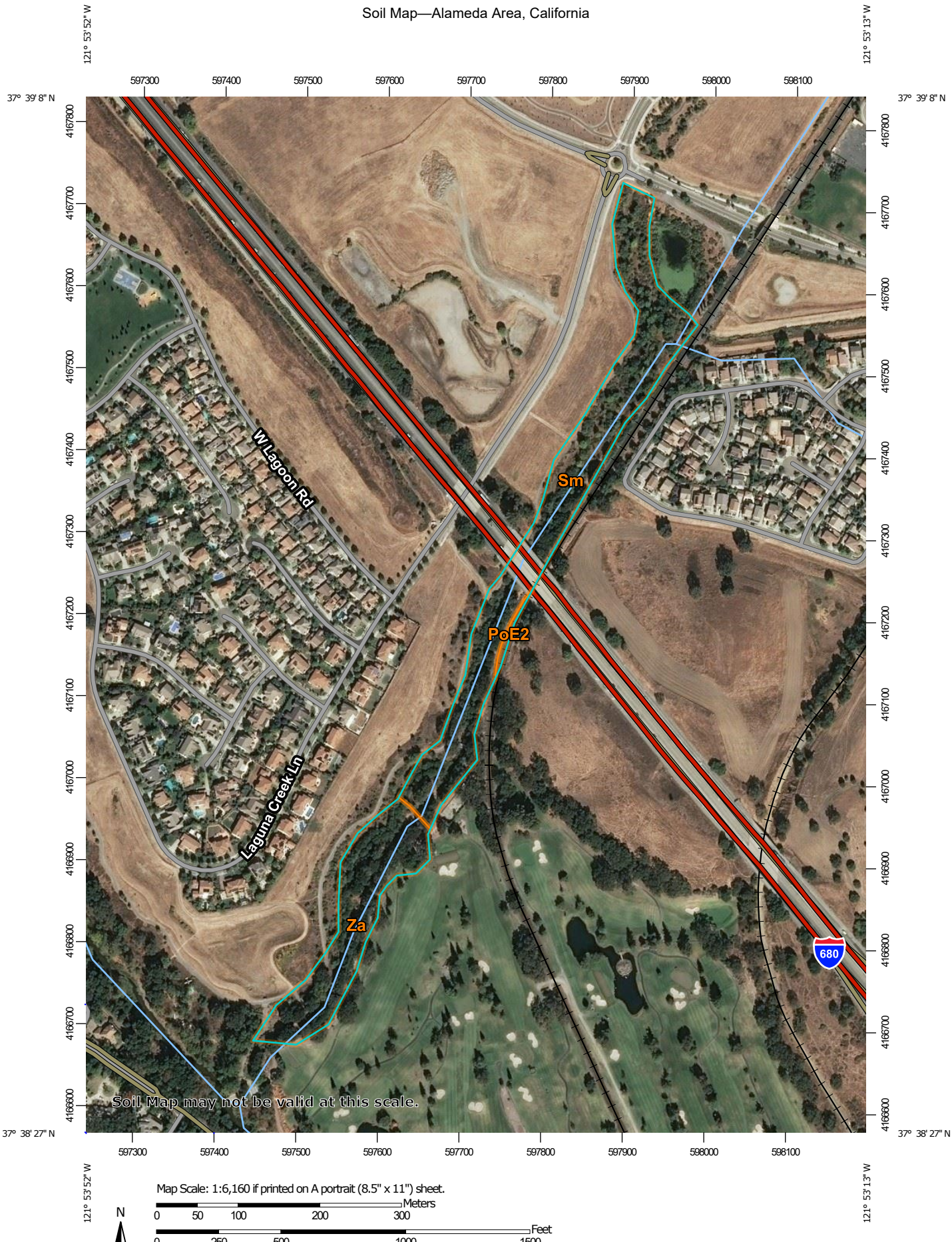
Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Sm	Sunnyvale clay loam over clay	6.0	42.4%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	8.2	57.6%
Totals for Area of Interest		**14.2**	**100.0%**

Soil Map—Alameda Area, California



Map Scale: 1:6,160 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 250 500 1000 1500

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alameda Area, California
Survey Area Data: Version 12, Sep 14, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PoE2	Positas gravelly loam, 20 to 40 percent slopes, eroded	0.1	0.9%
Sm	Sunnyvale clay loam over clay	9.6	66.7%
Za	Zamora silt loam, 0 to 4 percent slopes	4.7	32.4%
Totals for Area of Interest		**14.4**	**100.0%**

Soil Map—Alameda Area, California

Map Scale: 1:1,610 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 20 40 80 120

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
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- Miscellaneous Water
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- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alameda Area, California
Survey Area Data: Version 13, Sep 16, 2019

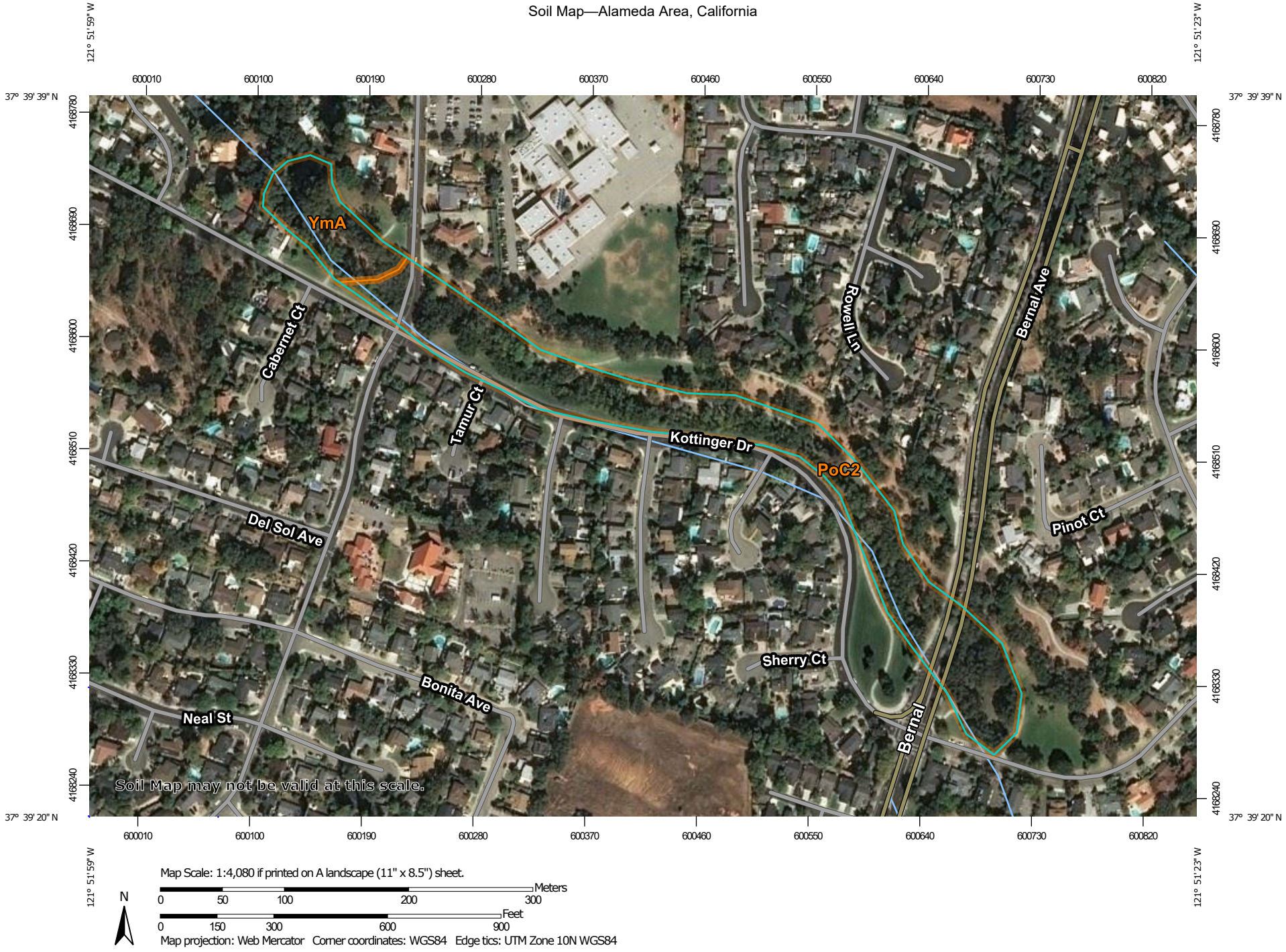
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 29, 2019—May 10, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	2.8	100.0%
Totals for Area of Interest		**2.8**	**100.0%**



Map Scale: 1:4,080 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Soil Survey Area: Alameda Area, California
Survey Area Data: Version 12, Sep 14, 2018

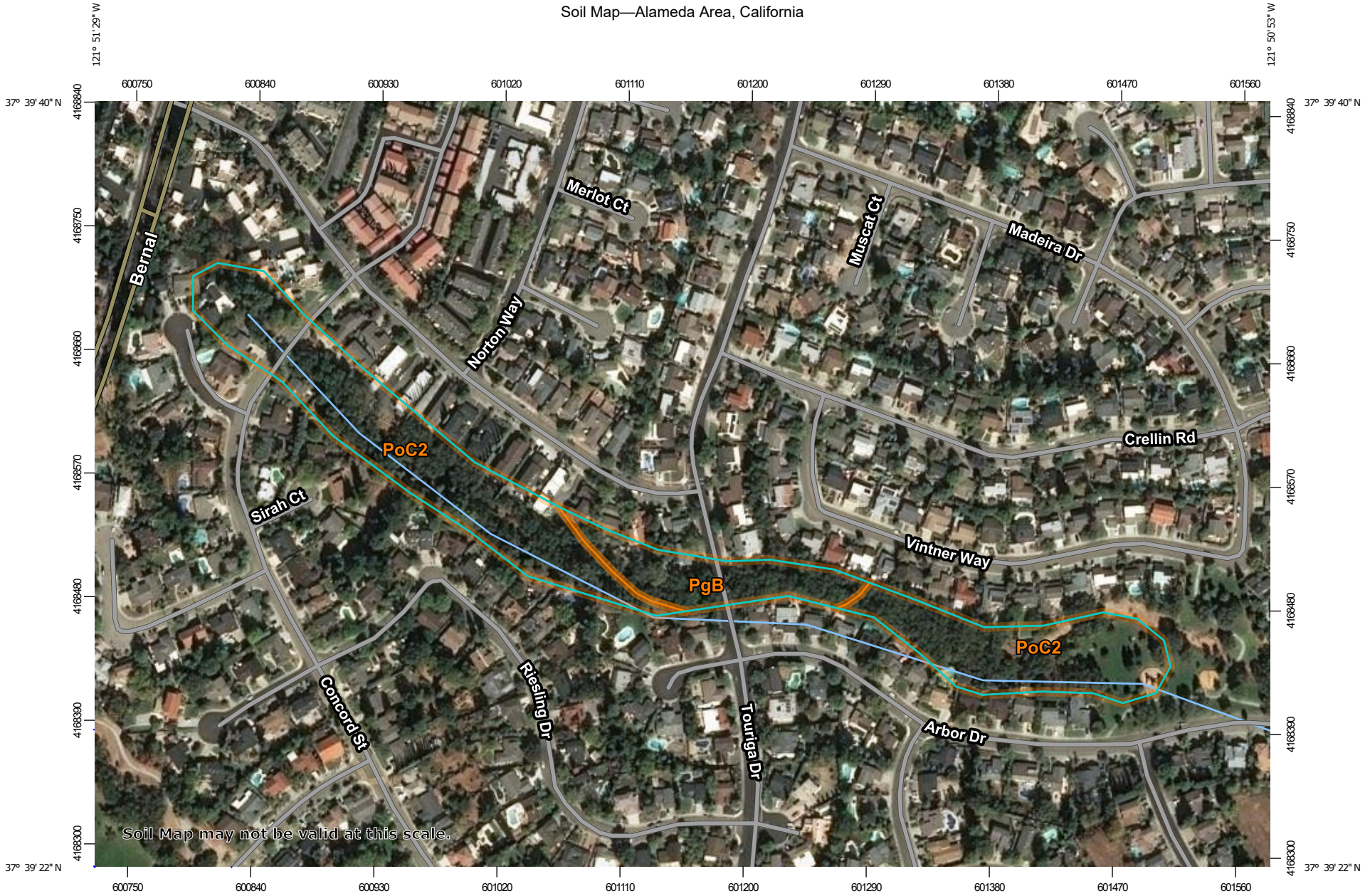
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PoC2	Positas gravelly loam, 2 to 20 percent slopes, eroded	6.9	82.8%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	1.4	17.2%
Totals for Area of Interest		**8.3**	**100.0%**



Map Scale: 1:3,930 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
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- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Soil Survey Area: Alameda Area, California
Survey Area Data: Version 12, Sep 14, 2018

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Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PgB	Pleasanton gravelly loam, 3 to 12 percent slopes	1.6	18.0%
PoC2	Positas gravelly loam, 2 to 20 percent slopes, eroded	7.1	82.0%
Totals for Area of Interest		**8.7**	**100.0%**

Map Scale: 1:4,190 if printed on A landscape (11" x 8.5") sheet.

N

0 50 100 200 300 Meters

0 200 400 800 1200 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
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Water Features

- Streams and Canals

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Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Sm	Sunnyvale clay loam over clay	3.8	100.0%
Totals for Area of Interest		**3.8**	**100.0%**

Map Scale: 1:878 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 10 20 40 60

Feet
0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
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- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

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Background

- Aerial Photography

MAP INFORMATION

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Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PoC2	Positas gravelly loam, 2 to 20 percent slopes, eroded	0.1	8.2%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	0.8	91.8%
Totals for Area of Interest		**0.9**	**100.0%**


121° 52' 54" W
121° 52' 45" W
37° 38' 48" N
37° 38' 43" N
598660
598680
598700
598720
598740
598760
598780
598800
598820
598840
598860
4167200
4167180
4167160
4167140
4167120
4167100
4167080
PoC2
Sunol Blvd
Sunol
Soil Map may not be valid at this scale.
Map Scale: 1:999 if printed on A landscape (11" x 8.5") sheet.
N
Meters
0 10 20 40 60
Feet
0 45 90 180 270
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
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- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Soil Survey Area: Alameda Area, California
Survey Area Data: Version 12, Sep 14, 2018

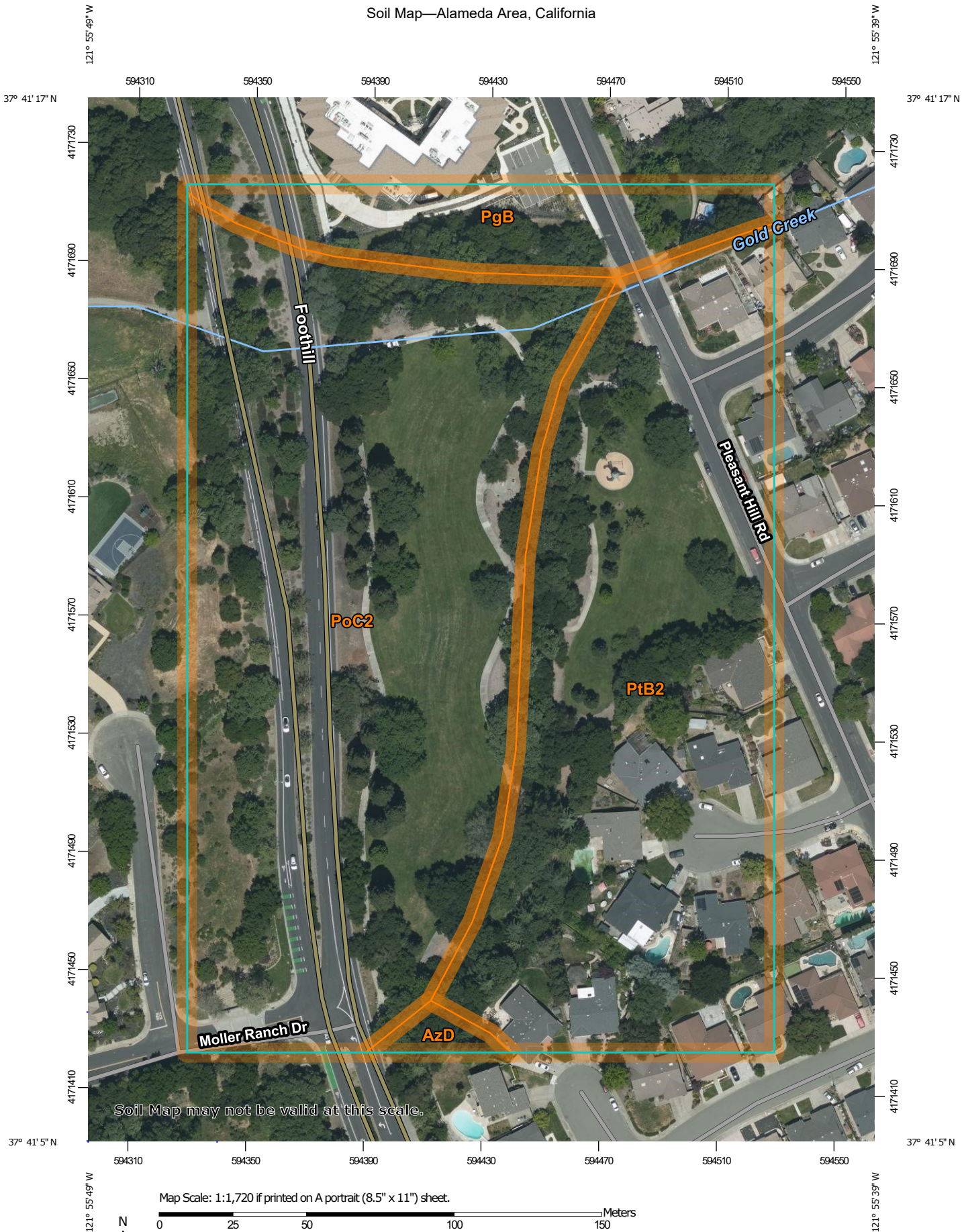
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 22, 2018—Oct 15, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PoC2	Positas gravelly loam, 2 to 20 percent slopes, eroded	1.7	100.0%
Totals for Area of Interest		**1.7**	**100.0%**



Map Scale: 1:1,720 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
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- Very Stony Spot
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Water Features

- Streams and Canals

Transportation

- Rails
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Background

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MAP INFORMATION

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Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Survey Area Data: Version 13, Sep 16, 2019

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Date(s) aerial images were photographed: Apr 29, 2019—May 10, 2019

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AzD	Azule clay loam, 3 to 30 percent slopes	0.1	0.8%
PgB	Pleasanton gravelly loam, 3 to 12 percent slopes	1.2	8.1%
PoC2	Positas gravelly loam, 2 to 20 percent slopes, eroded	7.5	51.5%
PtB2	Positas gravelly loam, thick surface, 2 to 10 percent slopes, eroded	5.8	39.6%
Totals for Area of Interest		**14.5**	**100.0%**

Map Scale: 1:882 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 10 20 40 60

Feet: 0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
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Water Features

- Streams and Canals

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- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Coordinate System: Web Mercator (EPSG:3857)

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Soil Survey Area: Alameda Area, California
Survey Area Data: Version 13, Sep 16, 2019

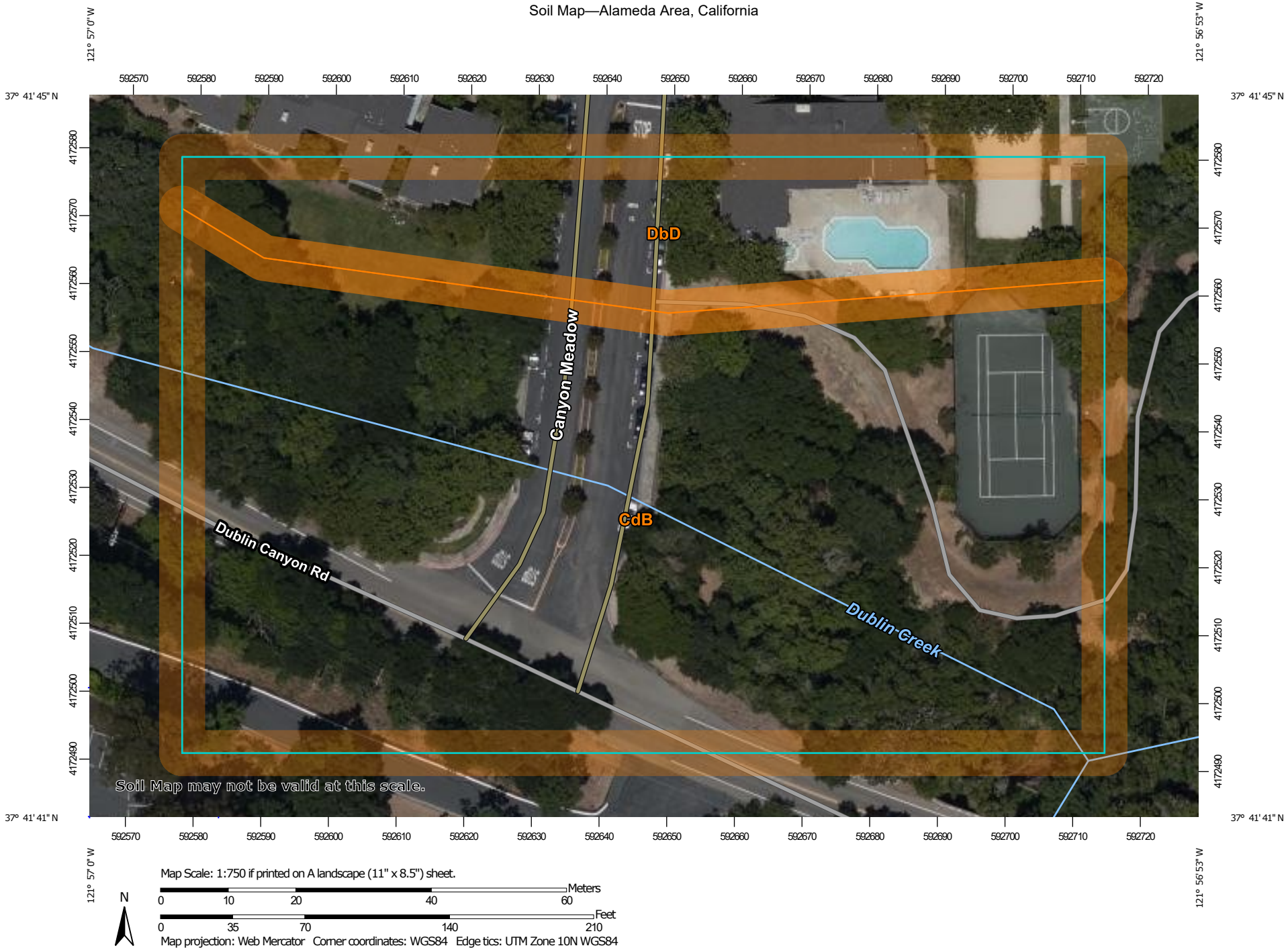
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 31, 2019—Jun 6, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CdB	Clear Lake clay, drained, 3 to 7 percent slopes	2.4	60.7%
DbD	Diablo clay, 15 to 30 percent slopes, MLRA 15	0.0	0.7%
LuD	Los Osos and Millsholm soils, 7 to 30 percent slopes	1.5	38.7%
Totals for Area of Interest		**4.0**	**100.0%**



Map Scale: 1:750 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 10 20 40 60

Feet: 0 35 70 140 210

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
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Water Features

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MAP INFORMATION

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Coordinate System: Web Mercator (EPSG:3857)

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CdB	Clear Lake clay, drained, 3 to 7 percent slopes	2.3	78.3%
DbD	Diablo clay, 15 to 30 percent slopes, MLRA 15	0.6	21.7%
Totals for Area of Interest		**3.0**	**100.0%**

Map Scale: 1:1,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 10 20 40 60

Feet
0 45 90 180 270

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

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Date(s) aerial images were photographed: Apr 29, 2019—May 10, 2019

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PoC2	Positas gravelly loam, 2 to 20 percent slopes, eroded	0.7	14.9%
PoE2	Positas gravelly loam, 20 to 40 percent slopes, eroded	1.3	28.5%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	2.6	56.6%
Totals for Area of Interest		**4.6**	**100.0%**

Map Scale: 1:903 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 10 20 40 60

Feet
0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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Soil Survey Area: Alameda Area, California
Survey Area Data: Version 13, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 29, 2019—May 10, 2019

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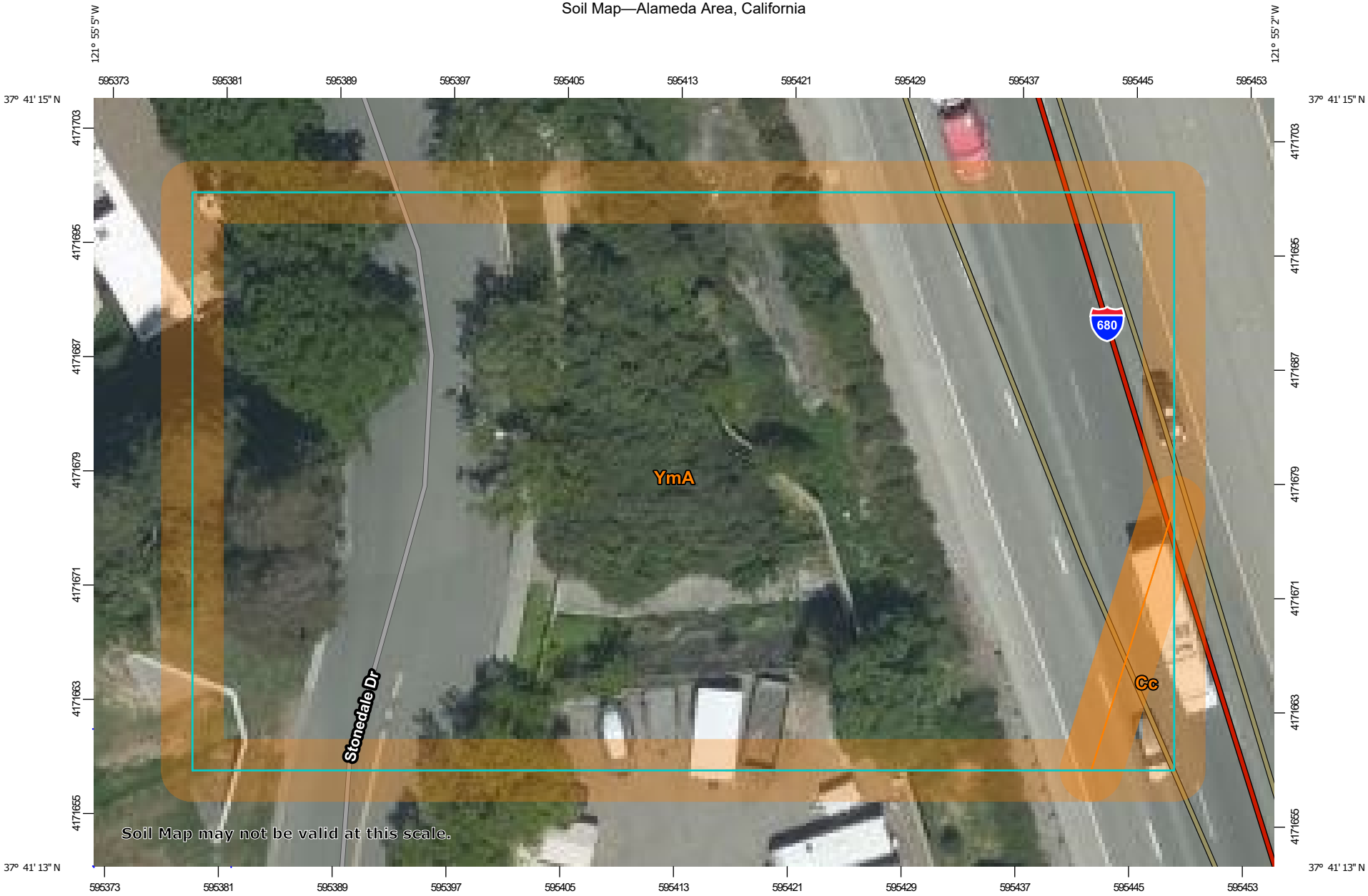
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PoC2	Positas gravelly loam, 2 to 20 percent slopes, eroded	3.5	100.0%
Totals for Area of Interest		**3.5**	**100.0%**



Map Scale: 1:380 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 5 10 20 30

Feet
0 15 30 60 90

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

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- Gravelly Spot
- Landfill
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Water Features

- Streams and Canals

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cc	Clear Lake clay, 0 to 3 percent slopes, MLRA 14	0.0	1.9%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	0.7	98.1%
Totals for Area of Interest		**0.7**	**100.0%**

Map Scale: 1:1,200 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
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- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
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- Perennial Water
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- Wet Spot
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Water Features

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
So	Sycamore silt loam, 0 to 2 percent slopes, MLRA 14	3.6	100.0%
Totals for Area of Interest		**3.6**	**100.0%**

Map Scale: 1:2,630 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
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Water Features

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Transportation

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Background

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Sm	Sunnyvale clay loam over clay	8.9	85.6%
Sn	Sunnyvale clay loam, drained	1.5	14.4%
Totals for Area of Interest		**10.4**	**100.0%**

Map Scale: 1:1,410 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
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MAP INFORMATION

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Sm	Sunnyvale clay loam over clay	3.4	100.0%
Totals for Area of Interest		**3.4**	**100.0%**

Map Scale: 1:2,380 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
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Water Features

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Transportation

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Background

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MAP INFORMATION

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
So	Sycamore silt loam, 0 to 2 percent slopes, MLRA 14	5.6	88.1%
Za	Zamora silt loam, 0 to 4 percent slopes	0.8	11.9%
Totals for Area of Interest		**6.3**	**100.0%**

Map Scale: 1:329 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 4 9 18 27

Feet: 0 15 30 60 90

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
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- Other
- Special Line Features

Water Features

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Transportation

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Background

- Aerial Photography

MAP INFORMATION

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PgB	Pleasanton gravelly loam, 3 to 12 percent slopes	0.3	100.0%
Totals for Area of Interest		**0.3**	**100.0%**

Map Scale: 1:882 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 10 20 40 60

Feet
0 40 80 160 240

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
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- Soil Map Unit Points

Special Point Features

- Blowout
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MAP INFORMATION

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LuD	Los Osos and Millsholm soils, 7 to 30 percent slopes	1.7	54.6%
Za	Zamora silt loam, 0 to 4 percent slopes	1.4	45.4%
Totals for Area of Interest		**3.2**	**100.0%**

Map Scale: 1:1,450 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 20 40 80 120

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

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Soils

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Special Point Features

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MAP INFORMATION

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Gp	Gravel pits	6.5	62.6%
W	Water	0.8	8.2%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	2.5	24.1%
Yo	Yolo loam over gravel, 0 to 3 percent slopes	0.5	5.1%
Totals for Area of Interest		**10.3**	**100.0%**

Map Scale: 1:1,390 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 20 40 80 120

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)

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Soils

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Special Point Features

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Gp	Gravel pits	2.1	27.5%
Lm	Livermore very gravelly coarse sandy loam	0.3	3.8%
PgB	Pleasanton gravelly loam, 3 to 12 percent slopes	4.9	65.0%
YmA	Yolo loam, calcareous substratum, 0 to 6 percent slopes, MLRA 14	0.3	3.7%
Totals for Area of Interest		**7.6**	**100.0%**

Photo 1: Concrete channel of Pimlico canal (C-01)

Photo 2: Concrete culvert at Pleasanton Canal (C-02)

Photo 3: Cattails in channel at C-02

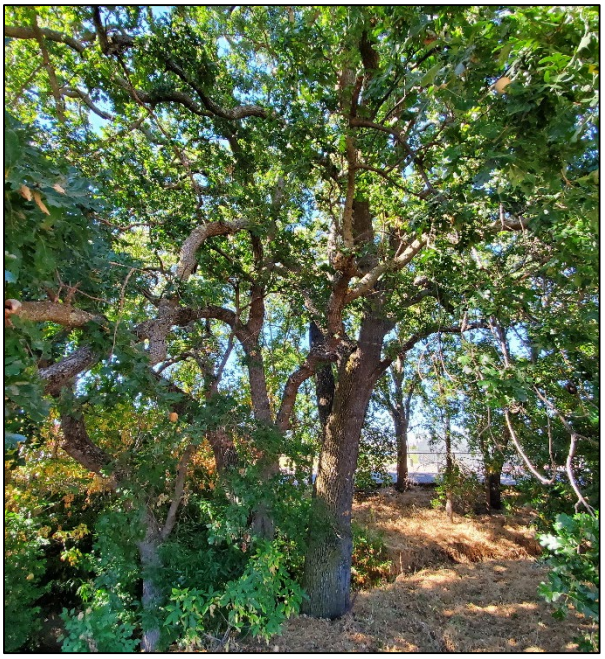

Photo 4: Riparian forest at Foothill High School Trash Rack (C-03)

Photo 5: Excavated channel at Bernal V-Ditch (C-04)

Photo 6: Culvert at C-04

Photo 7: Excavated channel at Bernal North/ South Ditch (C-05)

Photo 8: Dry creekbed at C-05

Photo 9: Intermittent stream at Mission Creek Restoration Project (C-06)

Photo 10: Manmade drainage at southern end of C-06

Photo 11: Manmade drainage feature at C-06 next to Arroyo de la Laguna

Photo 12: C-06 flowing under underpass

Photo 13: St. Mary Creek (C-07)

Photo 14: Upper Kottinger Creek (C-08)

Photo 15: Streambed and riparian forest at C-08

Photo 16: Standing water near culvert at Touriga Creek (C-09)

Photo 17: Riparian forest at C-09

Photo 18: Bed and bank of C-09 lined with stones

Photo 19: Junipero Canal (C-10)

Photo 20: Mission Creek Park (C-11)

Photo 21: Cemetery Creek (C-12)

Photo 22: Gold Creek (C-13)

Photo 23: Dublin Canyon Creek (C-14)

Photo 24: Stonedale Channel (C-15)

Photo 25: Arlington Creek (C-16)

Photo 26: Rutledge Place Culvert (C-17)

Photo 27: Stoneridge Pond (P-01)

Photo 28: Bernal Detention Pond (P-02)

Photo 29: Bernal Central Detention Pond (P-02)

Photo 30: Canyon Oaks Detention Pond (P-03)

Photo 31: Bernal West Detention Pond (P-04)

Photo 32: Culvert at P-04

Photo 33: Callippe Detention Pond (P-05)

Photo 34: Oak Tree Farms Detention Pond (P-06)

Photo 35: Vineyard West Detention Pond (P-07)

Photo 36: Vineyard East Detention Pond (P-08)

Appendix E. List of plant and wildlife species observed within the Study Area during the July and October, 2019 site visit.

Scientific Name	Common Name
Wildlife	
Cathartes aura	turkey vulture
Aphelocoma californica	California scrub jay
Agelaius tricolor	Tricolored blackbird
Buteo jamaicensis	red-tailed hawk
Carpodacus mexicanus	house finch
Pipilo maculatus	Spotted towhee
Charadrius vociferus	killdeer
Sayornis nigricans	black phoebe
Zenaida macroura	mourning dove
Spinus psaltria	Lesser goldfinch
Mimus polyglottos	Northern mockingbird
Melozone crissalis	California towhee
Corvus brachyrhynchos	American crow
Hirundo rustica	Barn swallow
Thryomanes bewickii	Bewicke's wren
Psaltriparus minimus	bushtit
Petrochelidon pyrrhonota	Cliff swallow
Euphagus cyanocephalus	Brewer's blackbird
Melanerpes formicivorus	Acorn woodpecker
Leuconotopicus villosus	Hairy woodpecker
Otospermophilus beecheyi	California ground squirrel
Plants	
Aesculus californica	buckeye
Avena barbata	slender oat
Avena sativa	wild oat
Baccharis pilularis ssp. *pilularis*	coyote brush
Baccharis salicina	willow baccharis
Brassica nigra	black mustard
Bromus diandrus	ripgut brome
Carduus pycnocephalus	Italian thistle
Catalpa bignonioides	southern catalpa
Centaurea solstitialis	yellow star thistle
Chenopodium sp.	goosefoot
Cirsium vulgare	spear thistle
Convolvulus arvensis	field bindweed
Cynodon dactylon	Bermuda grass
Cyperus eragrostis	tall cyperus
Epilobium brachycarpum	tall annual willowherb
Eschscholzia californica	California poppy

Eucalyptus globulus	Blue gum
Festuca myuros	rattail fescue
Festuca perennis	Italian rye grass
Foeniculum vulgare	fennel
Hedera canariensis	canary ivy
Helminthotheca echioides	bristly ox-tongue
Heteromeles arbutifolia	toyon
Hordeum marinum	seaside barley
Juglans nigra	black walnut
Lactuca canadensis	Canada wild lettuce
Lepidium latifolium	perennial pepperweed
Liquidambar styraciflua	sweetgum
Lolium rigidum	rigid Italian rye grass
Lotus corniculatus	bird's foot trefoil
Mentha pulegium	pennyroyal
Nasturtium officinale	watercress
Nerium oleander	Oleander
Persicaria hydropiper	common smartweed
Phalaris aquatica	harding grass
Plantago arenaria	Indian plantain
Polypogon monspeliensis	rabbitsfoot grass
Populus fremontii	Fremont cottonwood
Pseudognaphalium californicum	ladies' tobacco
Quercus agrifolia	coast live oak
Quercus lobata	valley oak
Raphanus sativus	jointed charlock
Rosa sp.	Rose
Rubus armeniacus	Himalayan blackberry
Rumex crispus	curly dock
Sequoia sempervirens	coast redwood
Schoenoplectus californicus.	California bulrush
Salix babylonica	Weeping willow
Tribulus terrestris	puncture vine
Trifolium hirtum	rose clover
Typha angustifolia	narrow leaf cattail
Typha latifolia	broadleaf cattail
Ulmus americana	American elm
Vicia sativa	spring vetch
Washingtonia robusta	Mexican fan palm
Xanthium strumarium	cocklebur