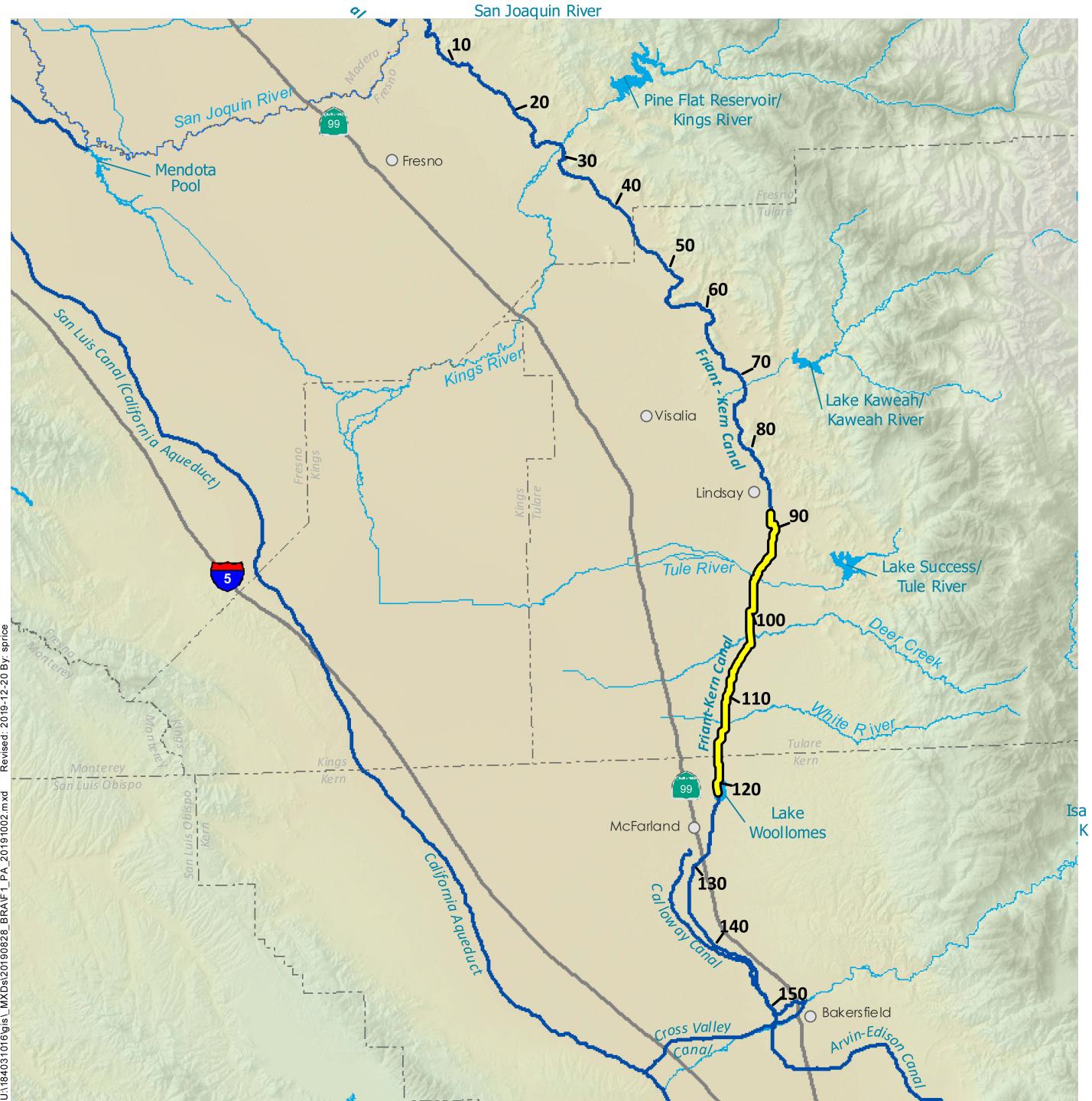


Biological Resources Assessment

Appendix F, Figures 1-5



- Project Area
- Canal / Conveyance
- Major Highway
- - - County Boundaries
- Cities
- 90 Canal Mile Post

0 4 8 16 Miles

1:1013,760 (At Original document size of 8.5 x 11)



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Figure No.

1 Project Location

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

1840031016

Prepared by SCP on 2019-08-28
Technical Review by MW on 2019-10-02
Updated by SCP on 2019-12-20

Client/Project

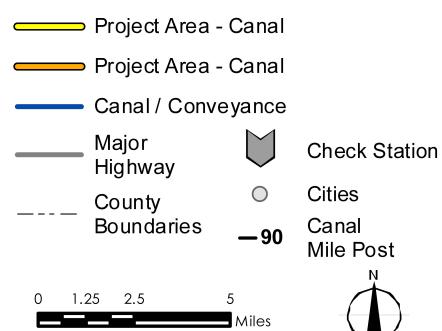
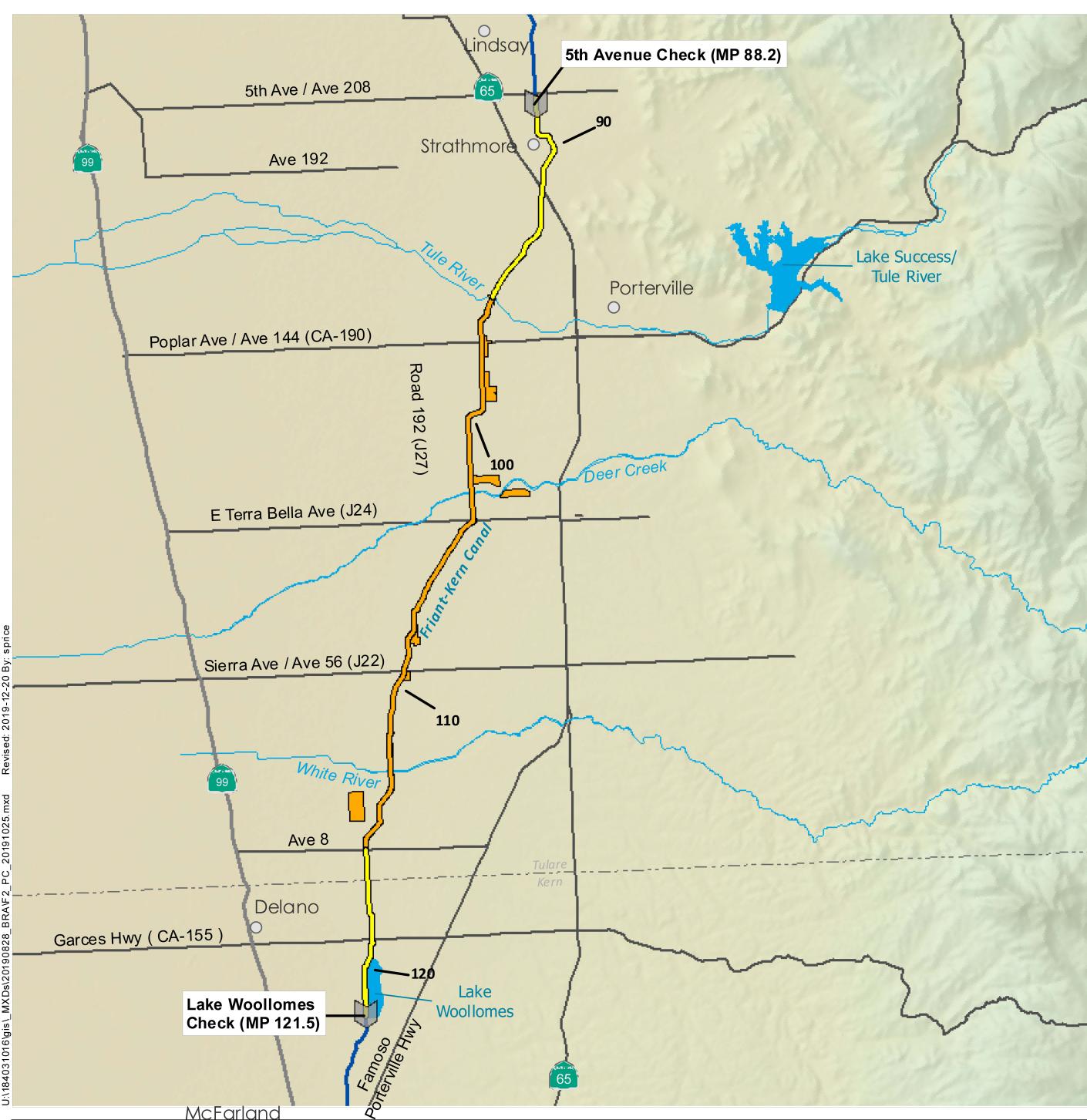
Friant Water Authority

Friant-Kern Canal Middle Reach Capacity Correction
Project - Biological Resources Assessment

Notes

- 1. Coordinate System: NAD 1983 UTM Zone 10N
- 2. Stantec, 2019, ESRI Major Roads

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1:316,800 (At Original document size of 8.5 x 11)

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 **Friant**
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Figure No.

2 Project Components

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

1840031016

Prepared by SCP on 2019-08-28
Technical Review by MW on 2019-10-02
Updated by SCP on 2019-12-20

Client/Project

Friant Water Authority

Friant-Kern Canal Middle Reach Capacity Correction Project - Biological Resources Assessment

Notes 1. Coordinate System: NAD 1983 UTM Zone 10N
2. Stantec, 2019, ESRI Major Roads

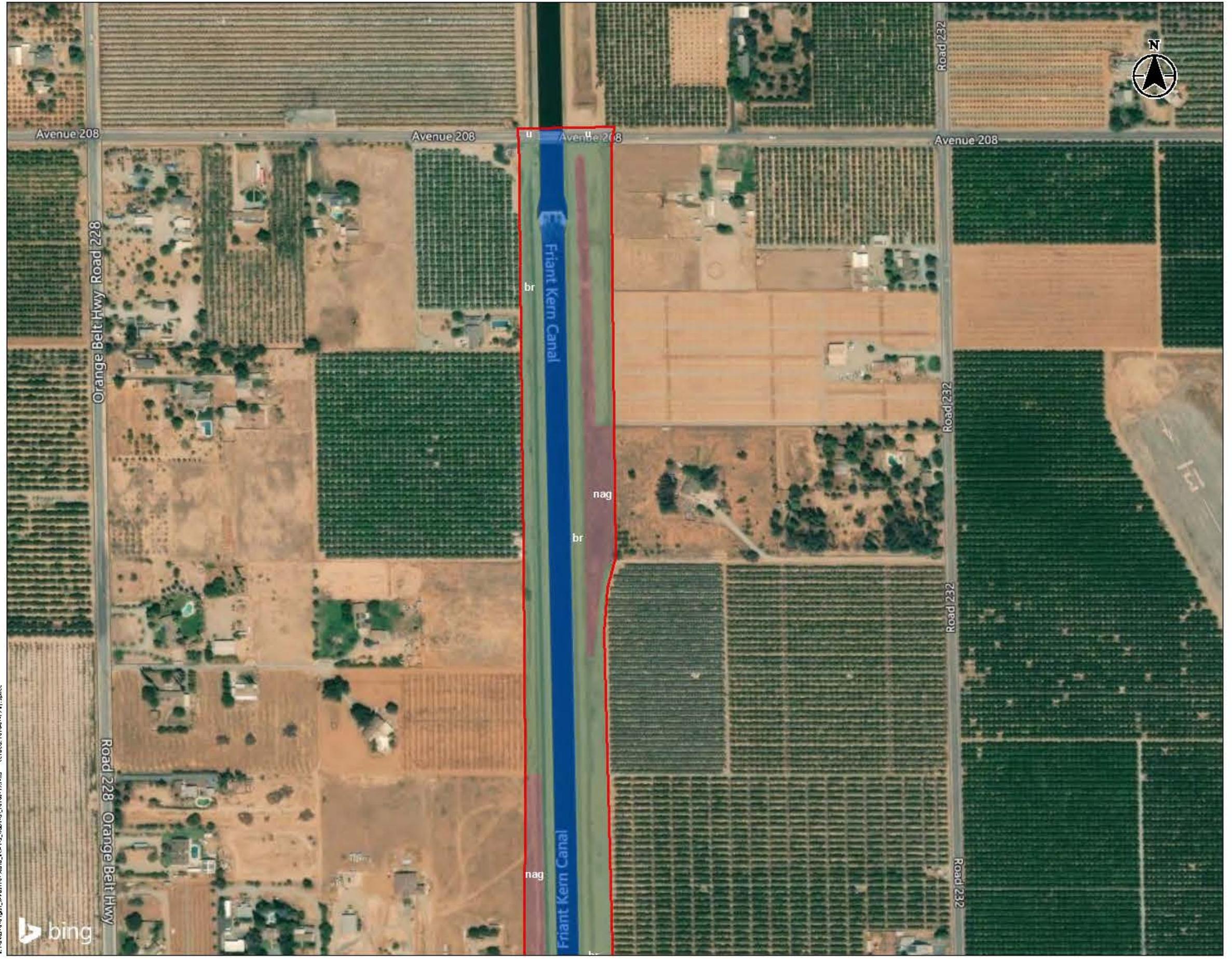


Figure No.
3A
Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

18-031016
Prepared by SCP on 2020-01-29

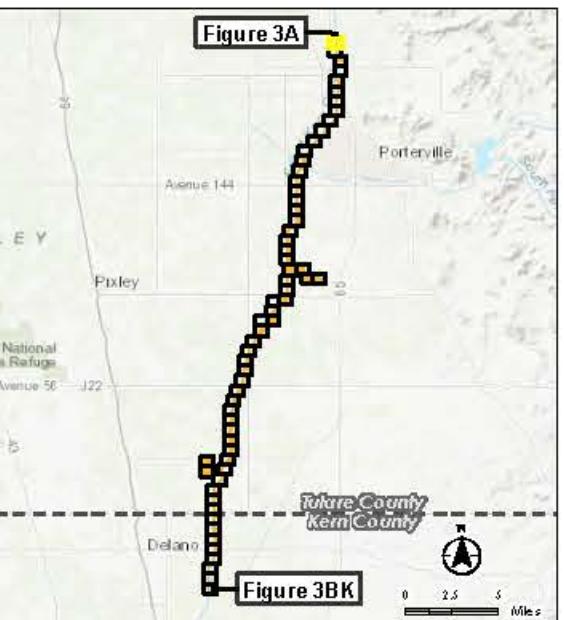
1:3,708 (At original document size of 11x17)

1 inch = 300 feet
0 150 300 600 Feet

Project Area

Habitat

- Barren/Ruderal (br)
- Non-Native Annual Grassland (nag)
- Urban (u)
- Water (w)



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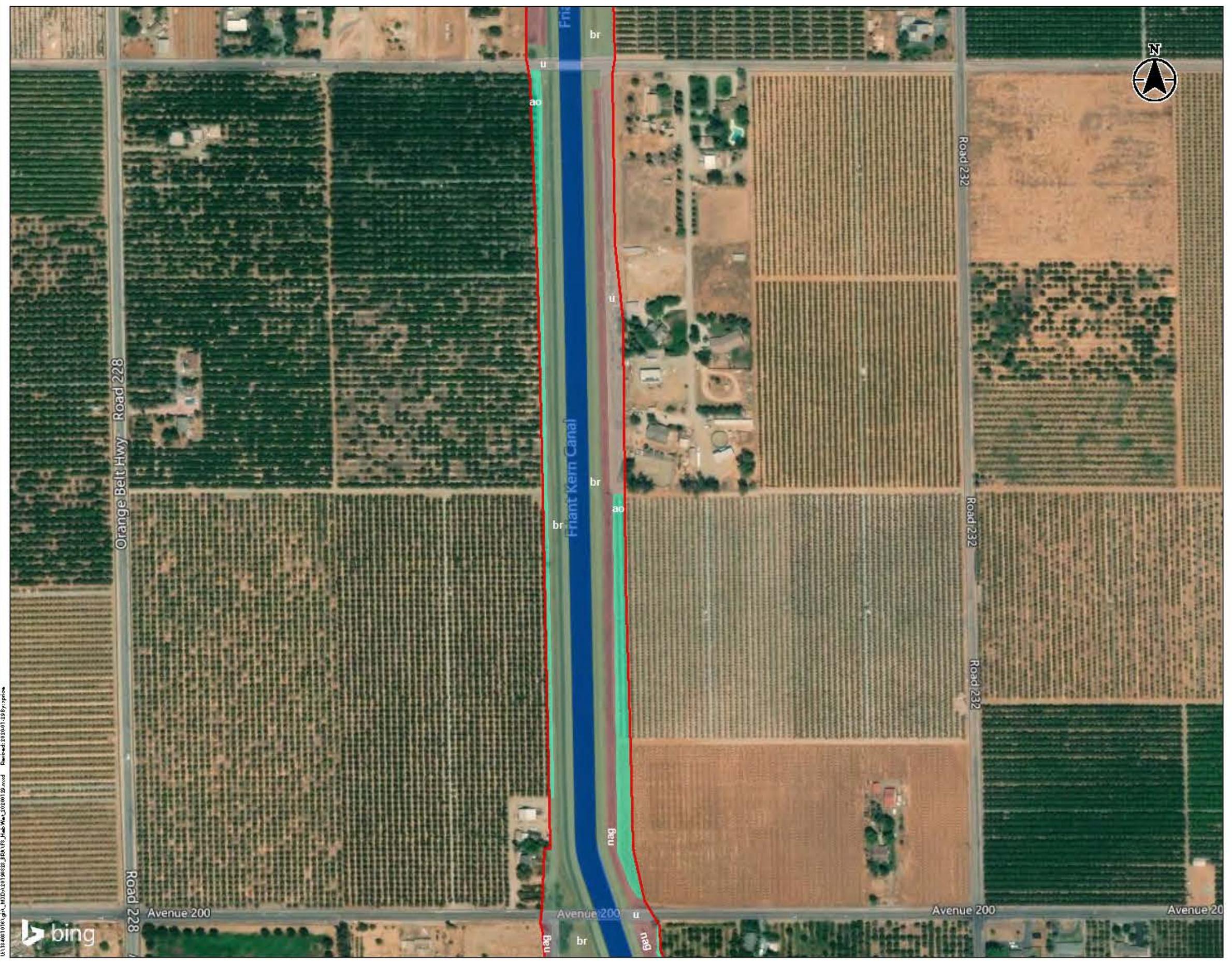


Figure No.
3B

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

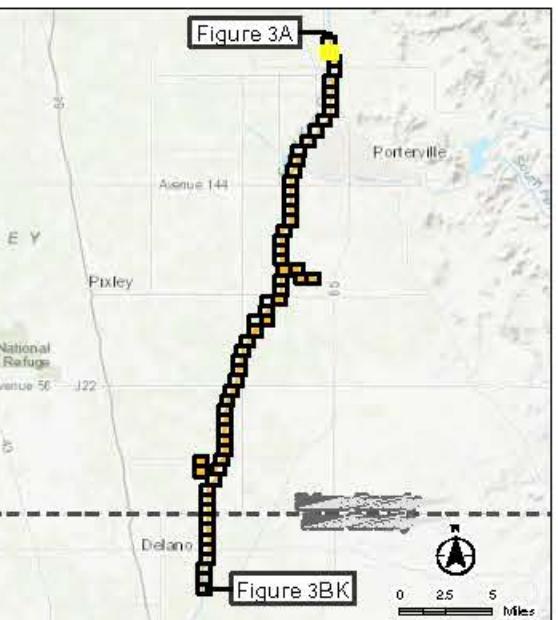
1:3,708 (At original document size of 11x17)

1 inch = 300 feet
0 150 300 600 Feet

Project Area

Habitat

- Agriculture – Orchard (ao)
- Barren/Ruderal (br)
- Non-Native Annual Grassland (nag)
- Urban (u)
- Water (w)

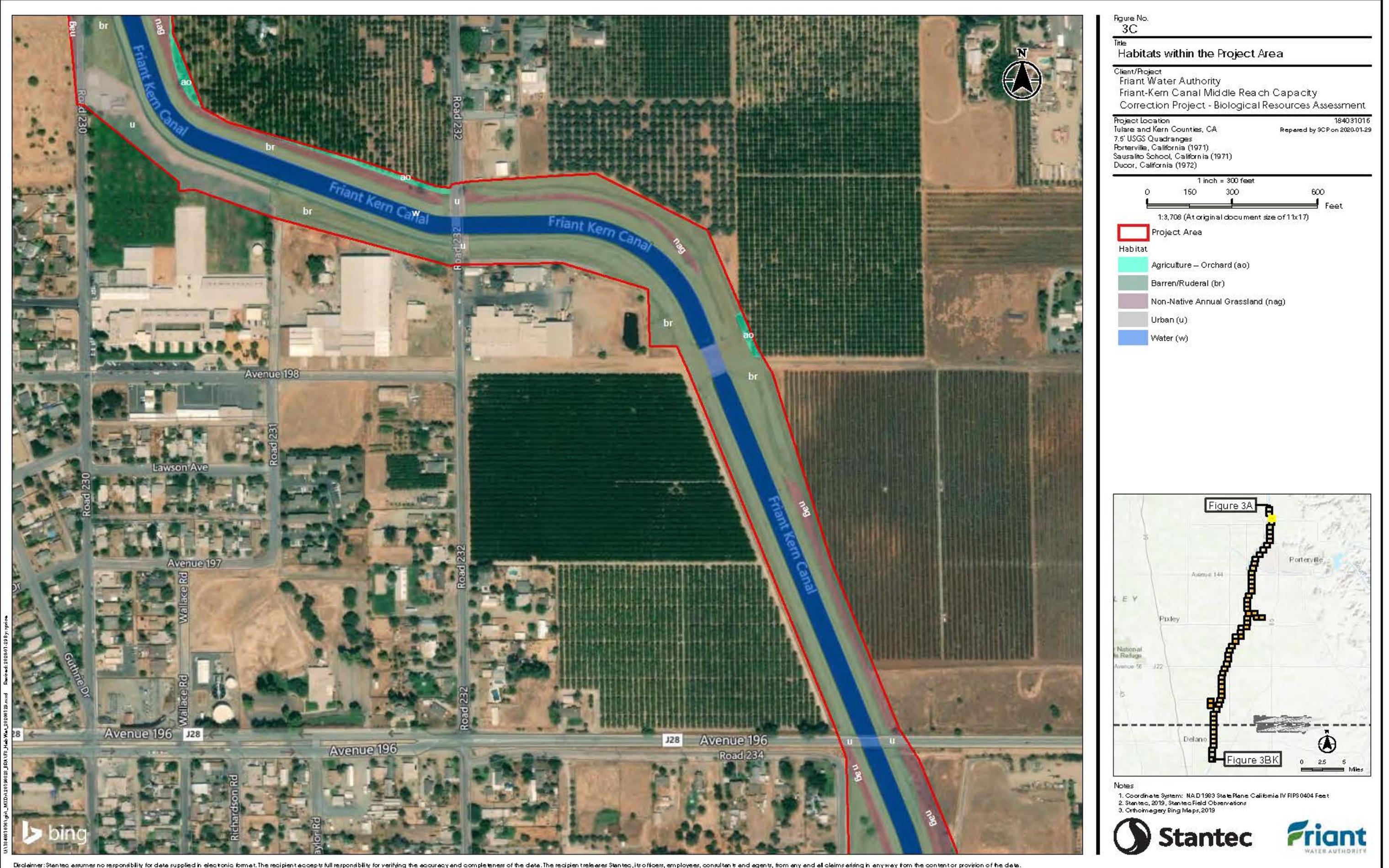


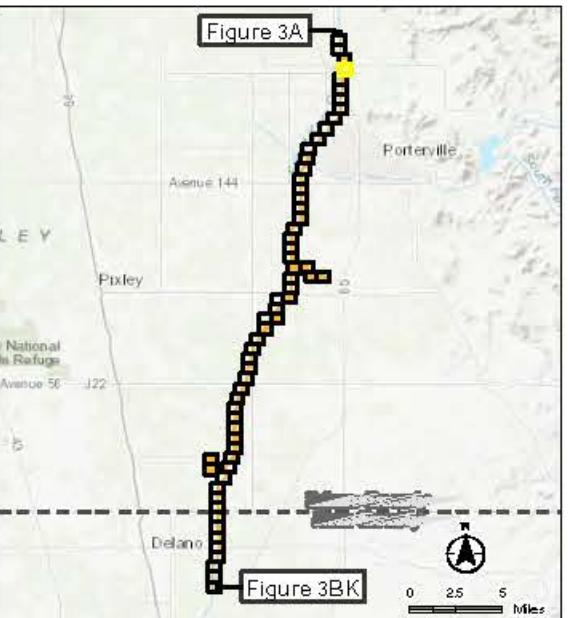
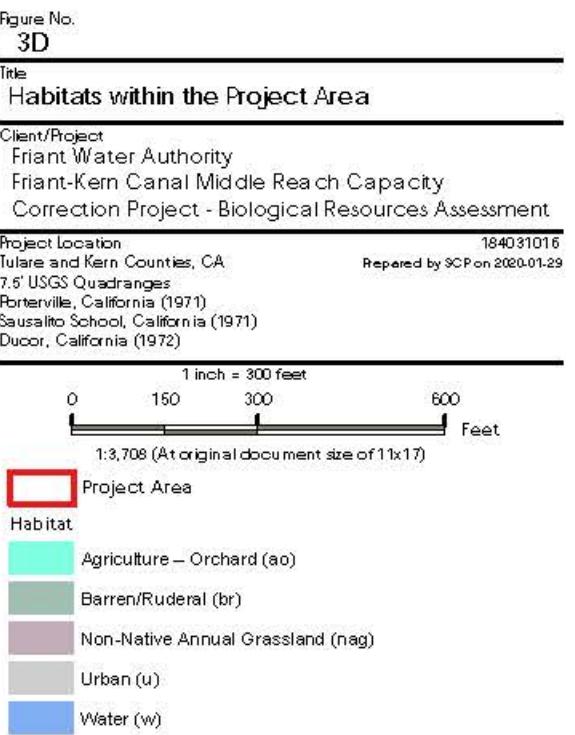
Notes

1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthorectified Bing Maps, 2019

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Friant
WATER AUTHORITY



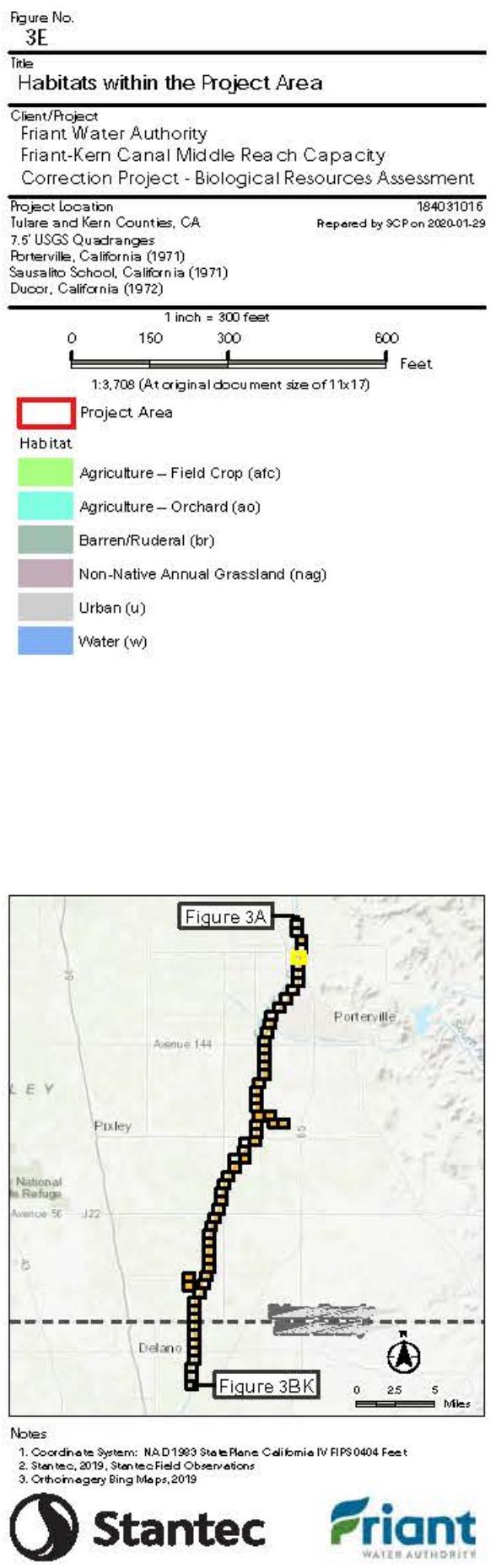
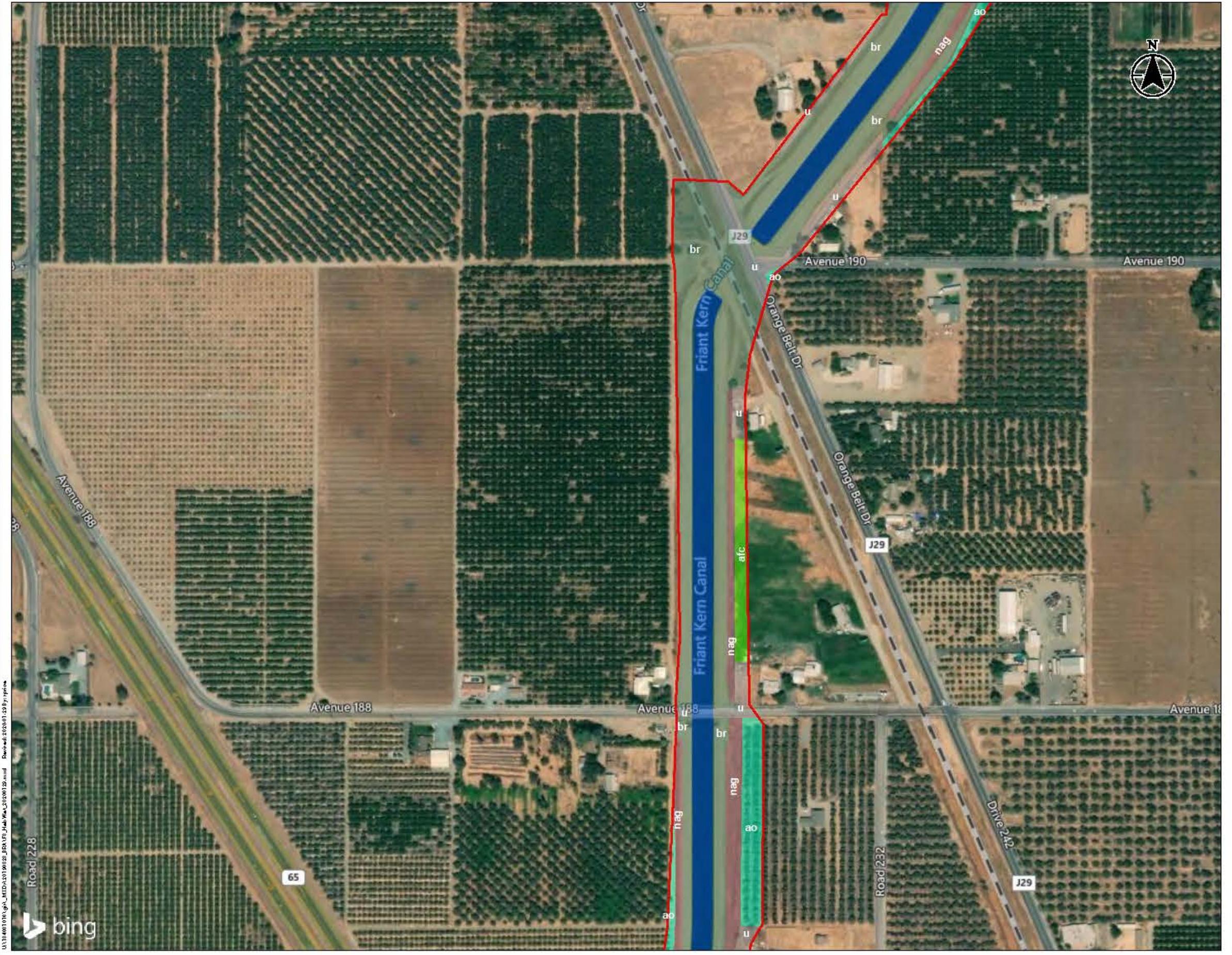


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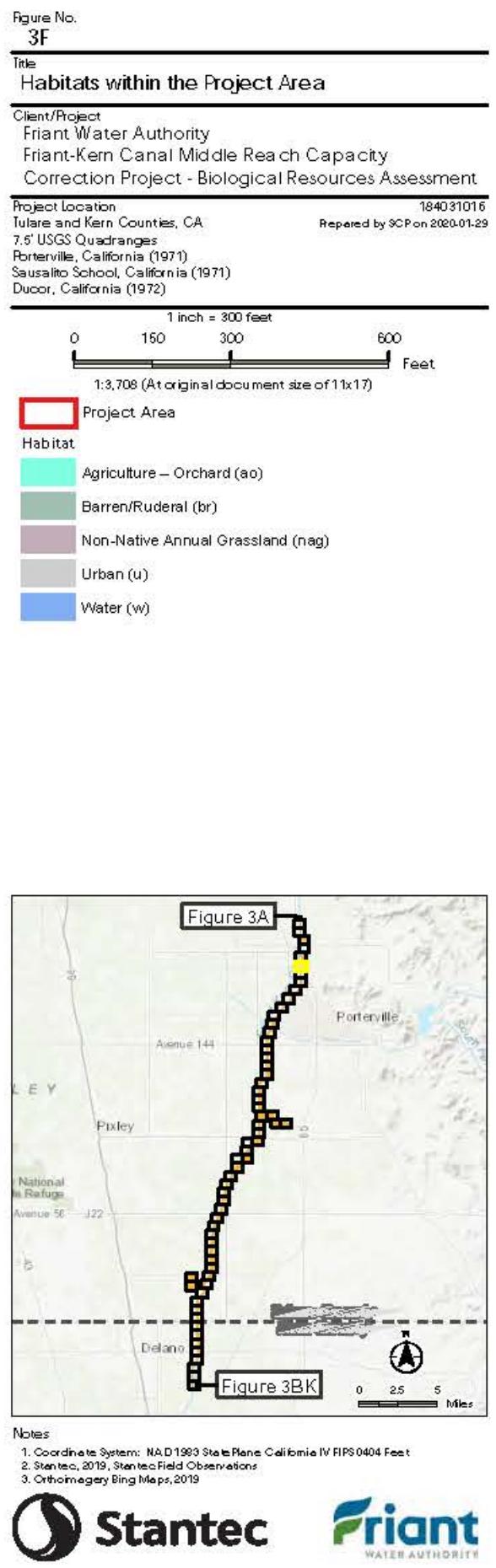
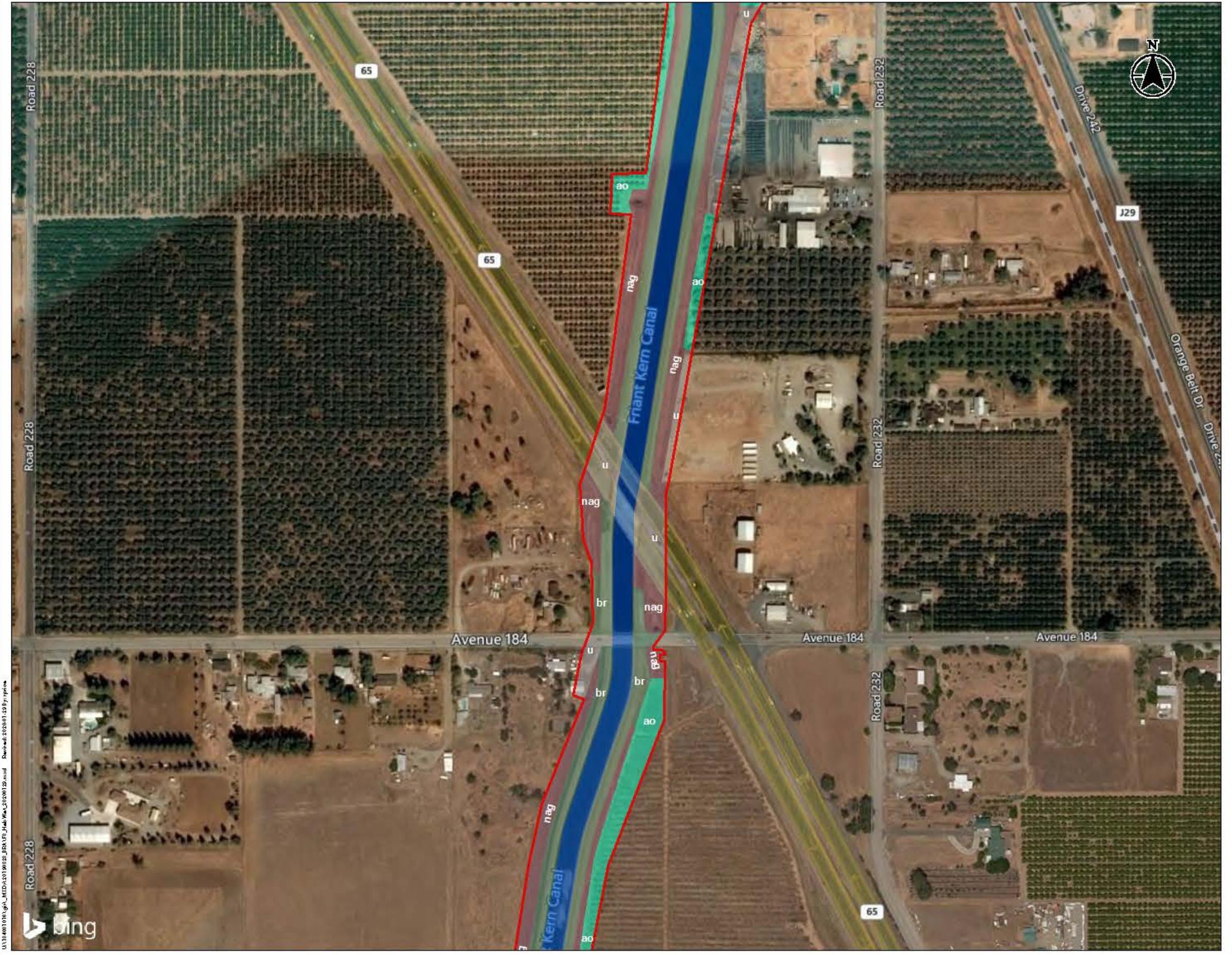
1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthomosaic Bing Maps, 2019

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Figure No.
3G

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

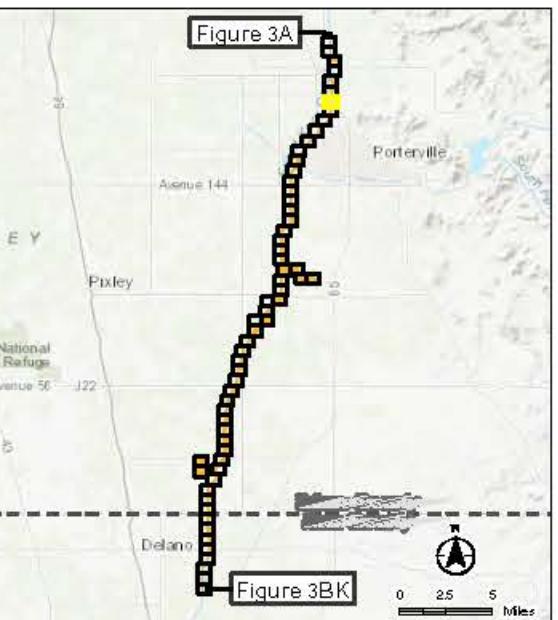
1:3,708 (At original document size of 11x17)

1 inch = 300 feet
0 150 300 600 Feet

Project Area

Habitat

- ao Agriculture – Orchard
- br Barren/Ruderal
- nag Non-Native Annual Grassland
- u Urban
- w Water

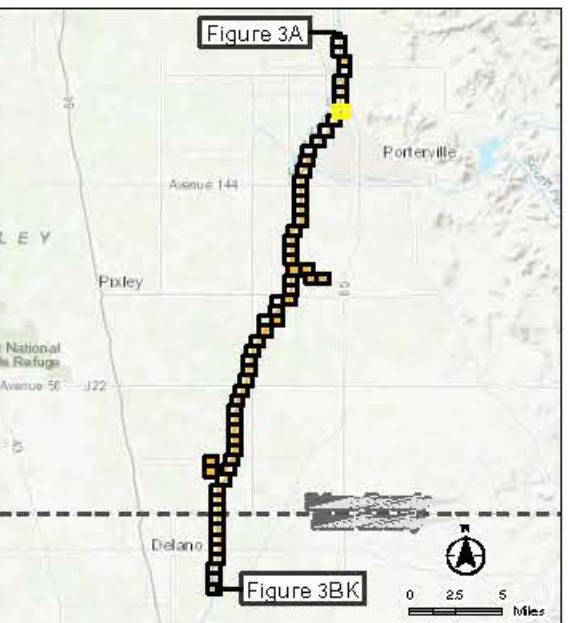
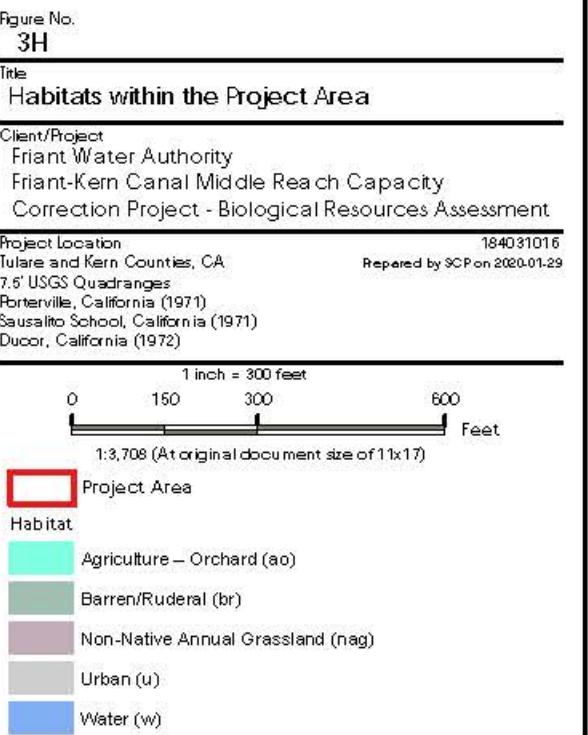


Notes

1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019

Stantec

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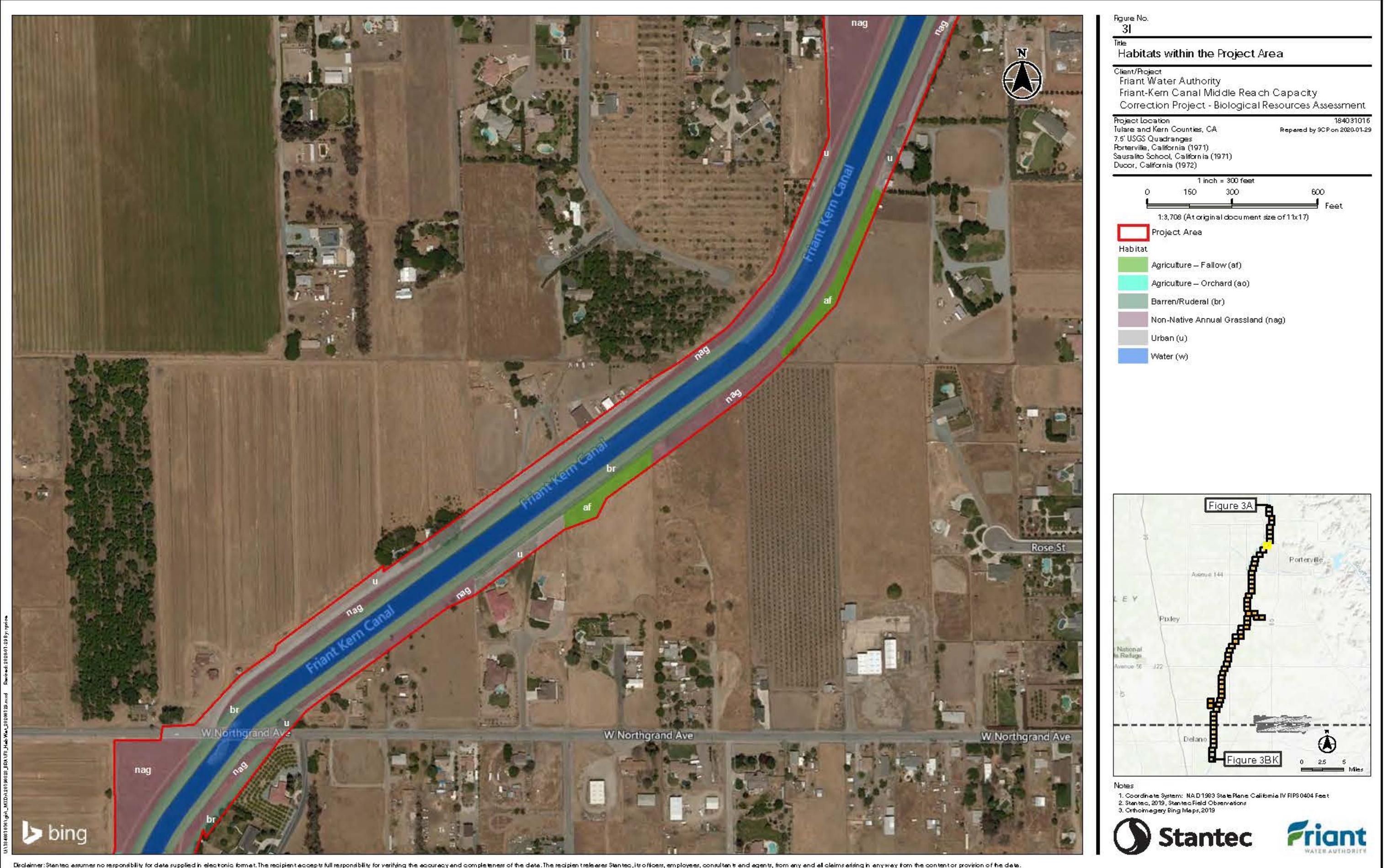


Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

Stantec

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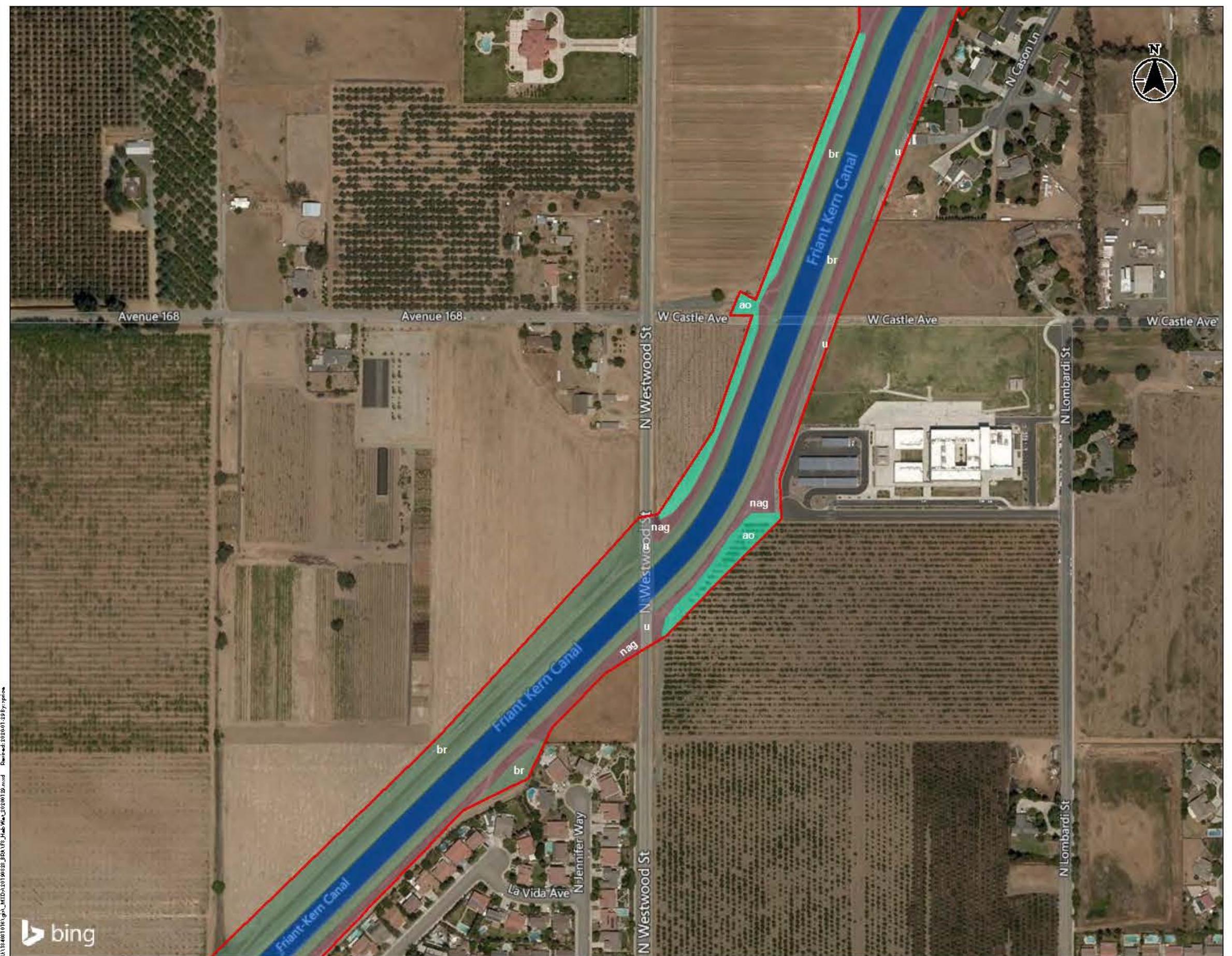
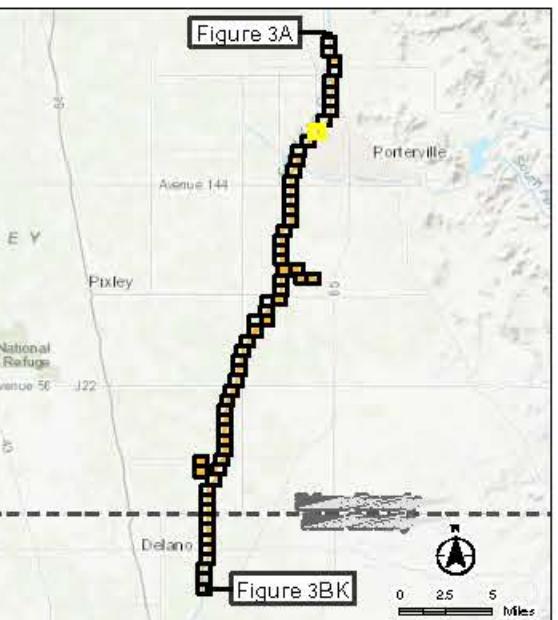
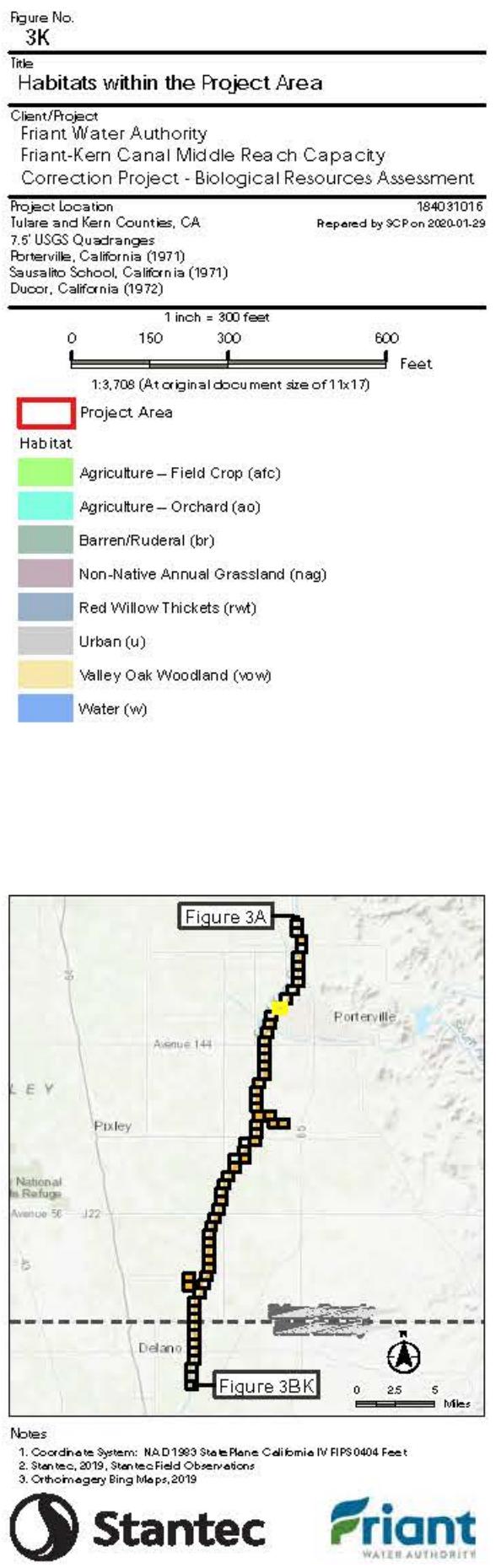
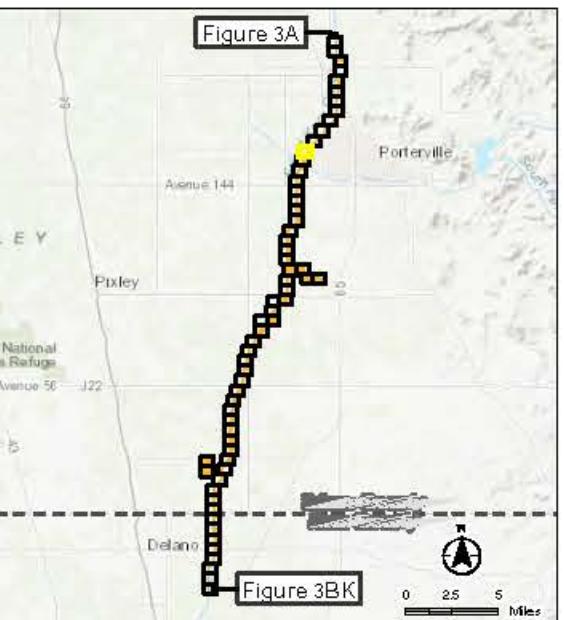
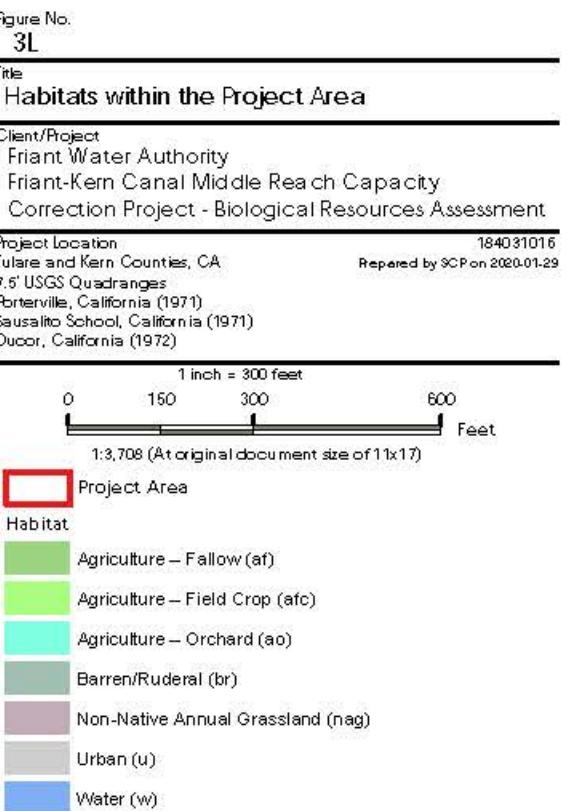
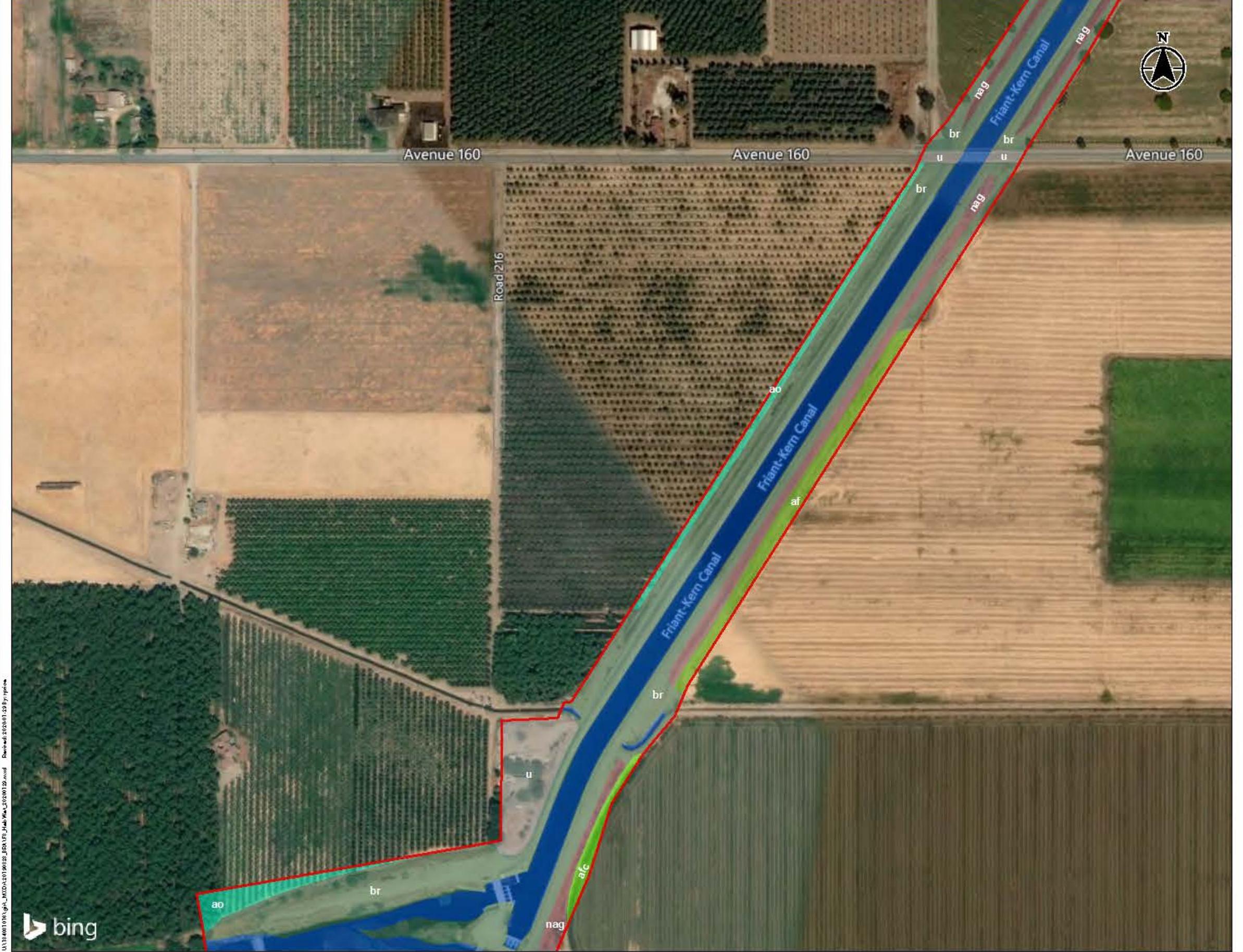


Figure No.
3J
Title
Habitats within the Project Area
Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)
Revised 184031016
Reported by SCP on 2020-01-29
Scale
1:3,708 (At original document size of 11x17)
Project Area
Habitat
Agriculture – Orchard (ao)
Barren/Ruderal (br)
Non-Native Annual Grassland (nag)
Urban (u)
Water (w)



Notes
1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthorectified Bing Maps, 2019



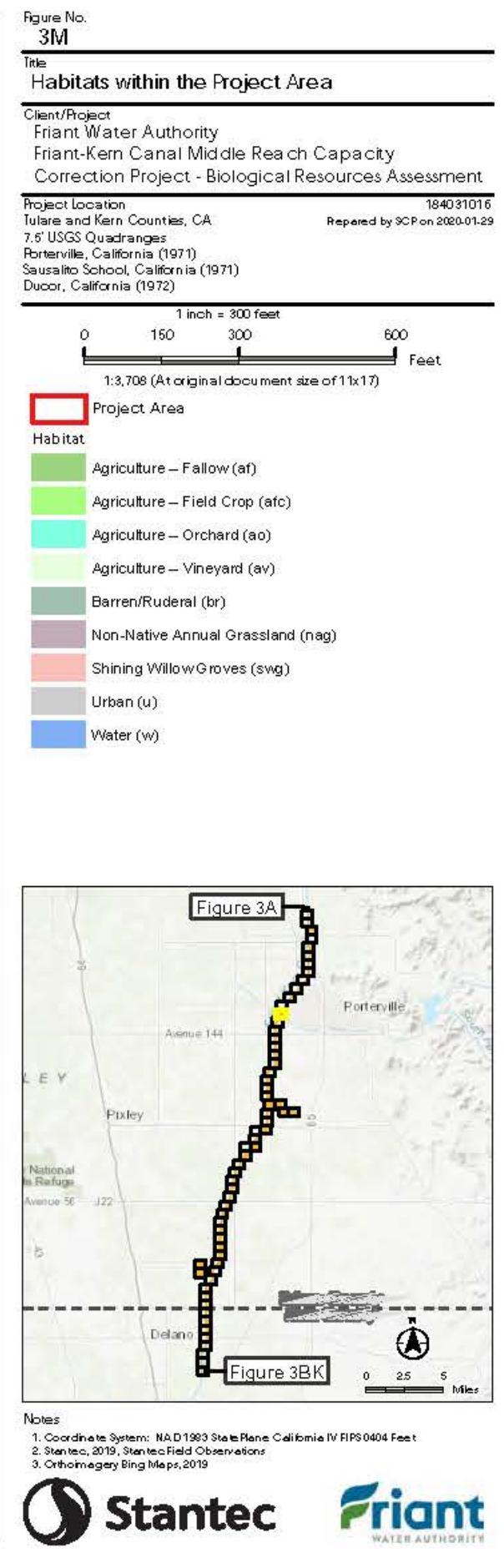


Notes

1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019

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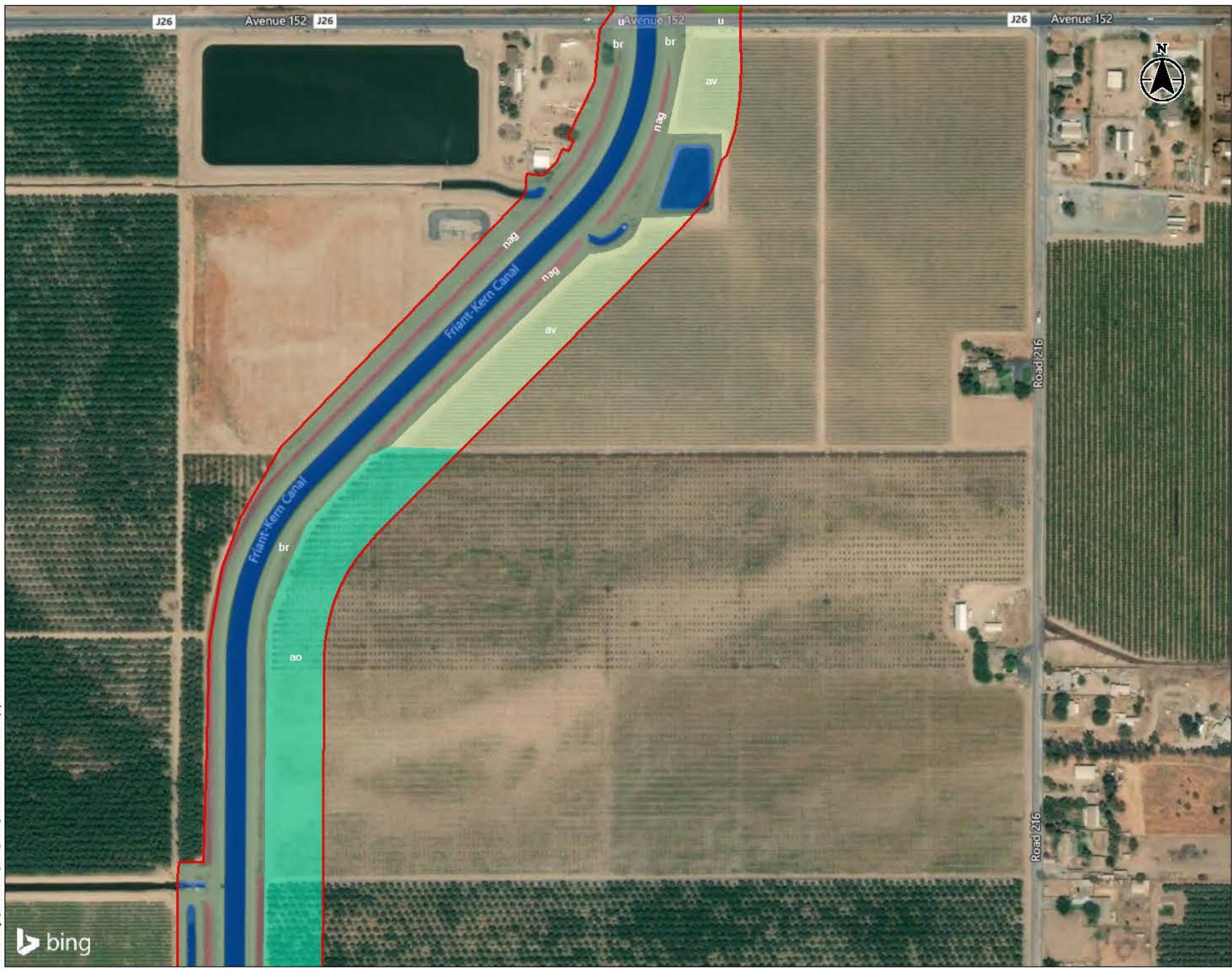


Figure No.
3N

Title

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location 184031016
Tulare and Kern Counties, CA Reported by SCP on 2020-01-29
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP on 2020-01-29

1 inch = 300 feet

0 150 300 600

Feet

Project Area

Habitat

Agriculture – Fallow (af)

Agriculture – Orchard (ao)

Agriculture – Vineyard (av)

Barren/Ruderal (br)

Non-Native Annual Grassland

Urban (U)

Water (%)

Visitor (11)

The figure consists of two maps. The top map, labeled "Figure 3A", shows a detailed view of a coastal area with a prominent black stepped line representing a boundary or profile. A yellow dot marks a specific point on this line. Labels include "Porterville", "Avenue 144", "Poxley", "National Seashore", "Avenue 56", and "J-22". A scale bar indicates distances up to 10 miles. The bottom map, labeled "Figure 3BK", shows a wider regional view with a dashed horizontal line extending from the stepped line in Figure 3A. It includes labels for "Delano", "Porterville", "Avenue 144", "Poxley", "National Seashore", "Avenue 56", and "J-22". A scale bar at the bottom right shows 0, 2.5, and 5 miles, with an arrow pointing North.

Notes

1. Coordinate System: NAD1983 StatePlane California IV FIPS0404 Feet
 2. Stantec, 2019, Stantec Field Observations
 3. Orthoimagery Bing Maps, 2019



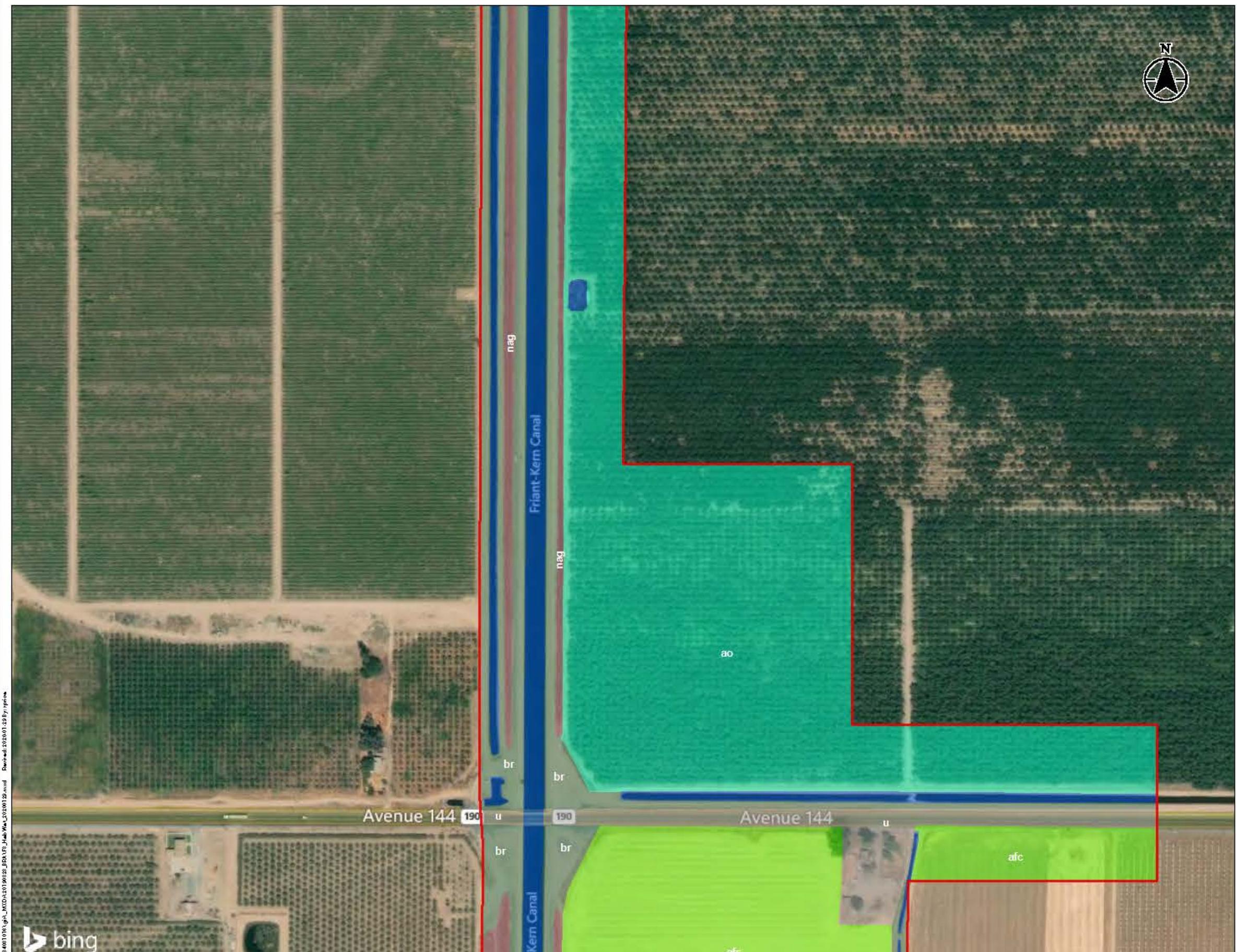


Figure No.
30

Title

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location 184031016
Tulare and Kern Counties, CA Prepared by SCP on 2020-01-29
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

1 inch = 300 feet

0 150 300 600

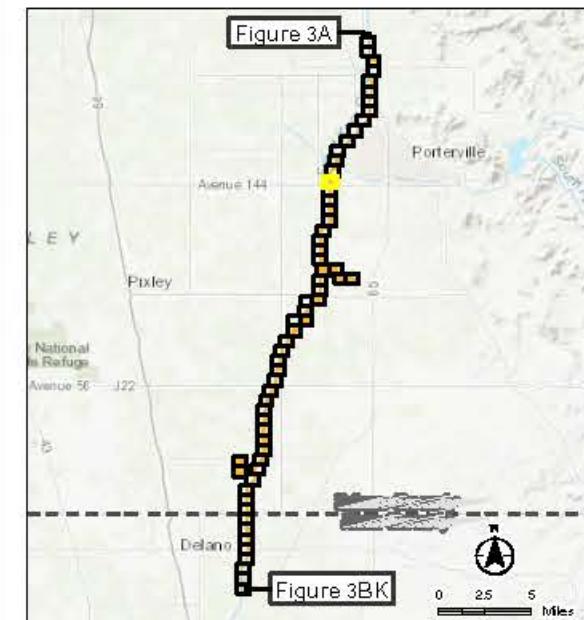
Feet

13.708 (Atorign)

Habitat

- Agriculture – Field Crop
- Agriculture – Orchard
- Bareland/Ruderal (br)

- Non-Native Annual Grassland (nag)
- Urban (u)
- Water (w)



Notes

- NOTES:
1. Coordinate System: NAD1983 StatePlane California IV FIPS0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019

 Stantec

Friant
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Figure No.
3P

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

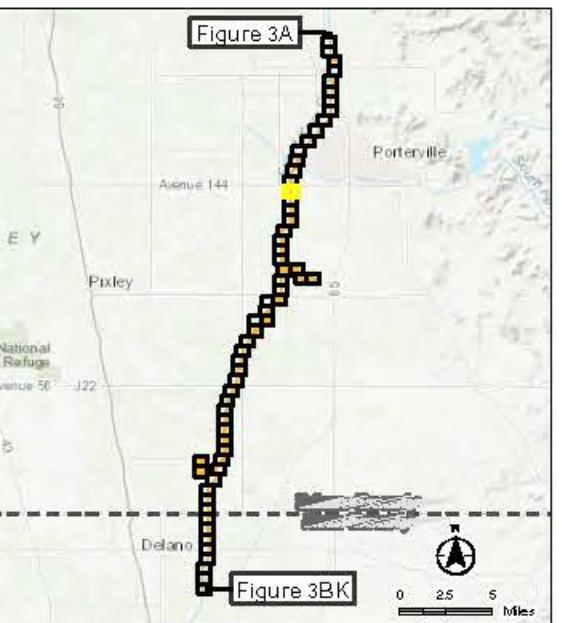
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

1:3,708 (At original document size of 11x17)

1 inch = 300 feet

0 150 300 600 Feet



Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019





Figure No.
3R

Title
Habitats within the Project Area

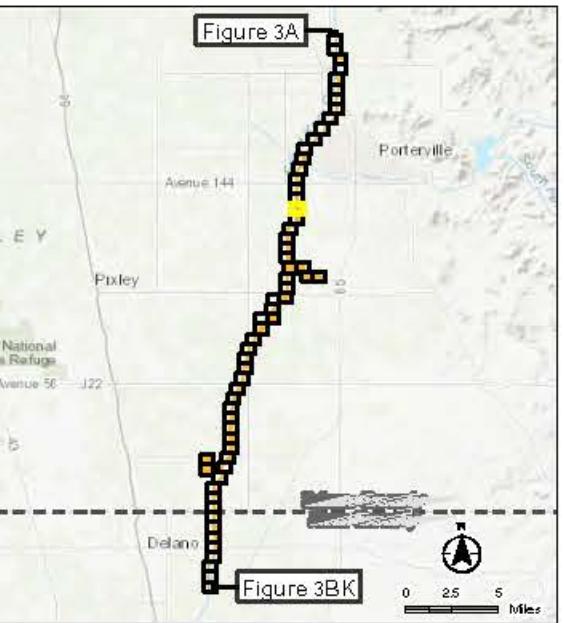
Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

1 inch = 300 feet
0 150 300 600 Feet

1:3,708 (At original document size of 11x17)



Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

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Figure No.
3S

Title

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location 184031016
Tulare and Kern Counties, CA Prepared by SCP on 2020-01-29
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

1 inch = 300 feet

0 150 300 600

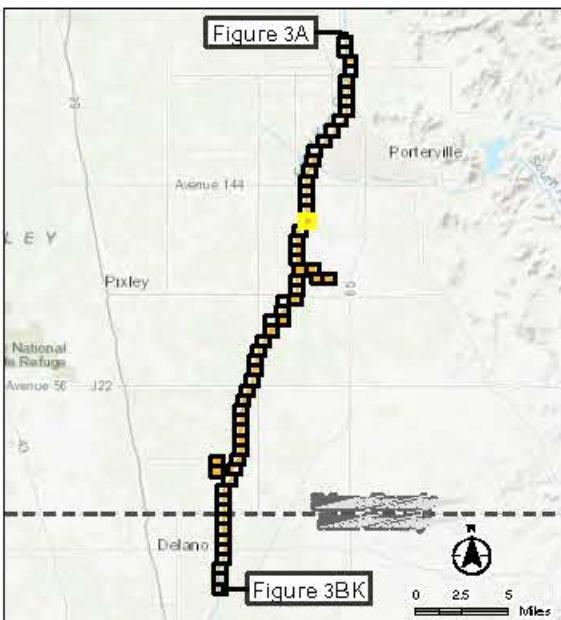
Feet

13.708 (Atlang)

Habitat

- A legend consisting of six colored squares with corresponding labels: Agriculture – Field Crop (afc) in light green, Agriculture – Orchard (ao) in light blue, Barren/Ruderal (br) in dark green, California Buckwheat Scrub (cbs) in purple, Non-Native Annual Grassland (nag) in brown, and Urban (u) in grey. A separate entry for Water (w) is shown in blue at the bottom.

Agriculture – Field Crop (afc)
Agriculture – Orchard (ao)
Barren/Ruderal (br)
California Buckwheat Scrub (cbs)
Non-Native Annual Grassland (nag)
Urban (u)
Water (w)

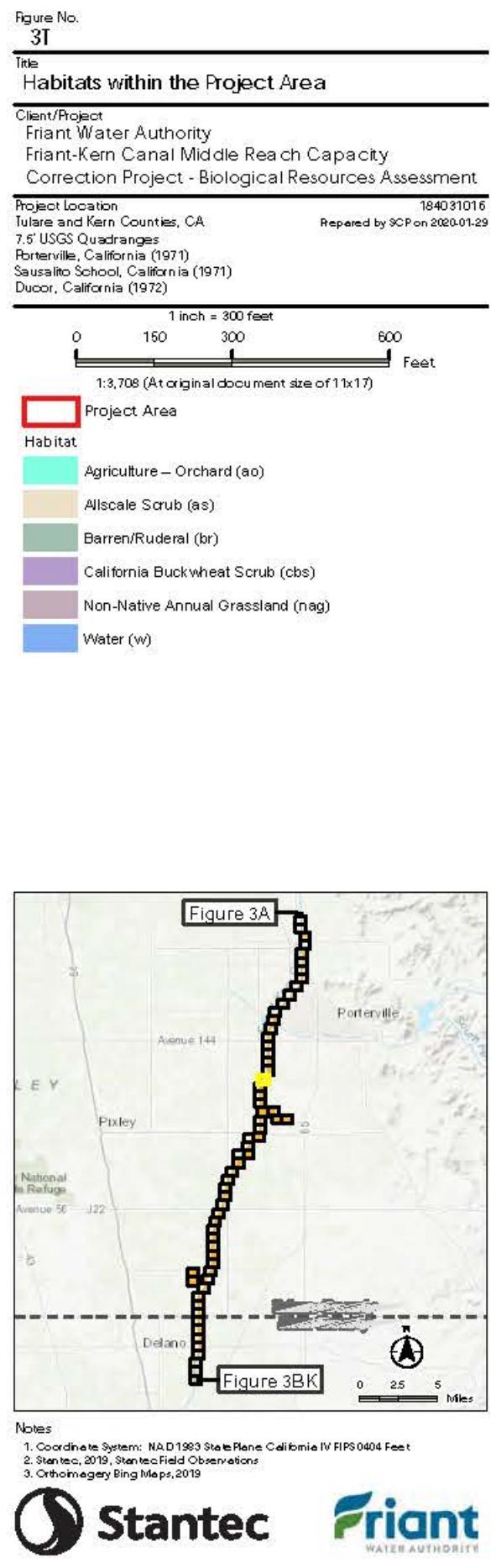


Notes

- 1. Coordinate System: NAD 1993 StatePlane California IV FIPS 0404 Feet
 - 2. Stantec, 2019, Stantec Field Observations
 - 3. Orthoimagery Bing Maps, 2019



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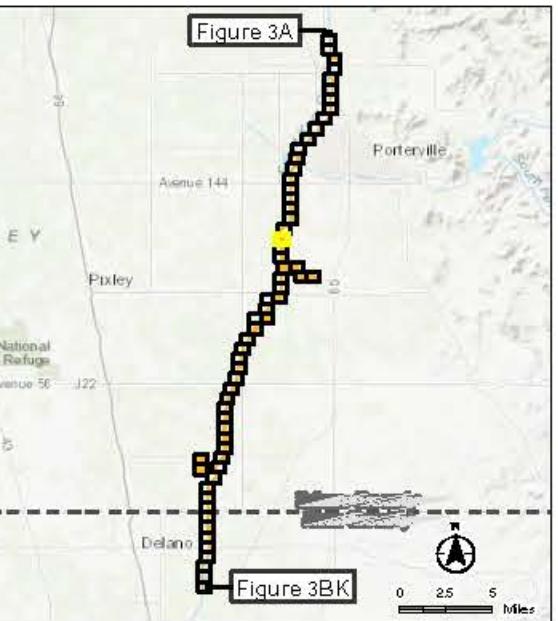
Figure No.
3U
Title
Habitats within the Project Area
Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

1 inch = 300 feet
0 150 300 600 Feet

1:3,708 (At original document size of 11x17)

Project Area
Habitat
Agriculture – Orchard (ao)
Barren/Ruderal (br)
Non-Native Annual Grassland (nag)
Urban (u)
Water (w)



Notes
1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019

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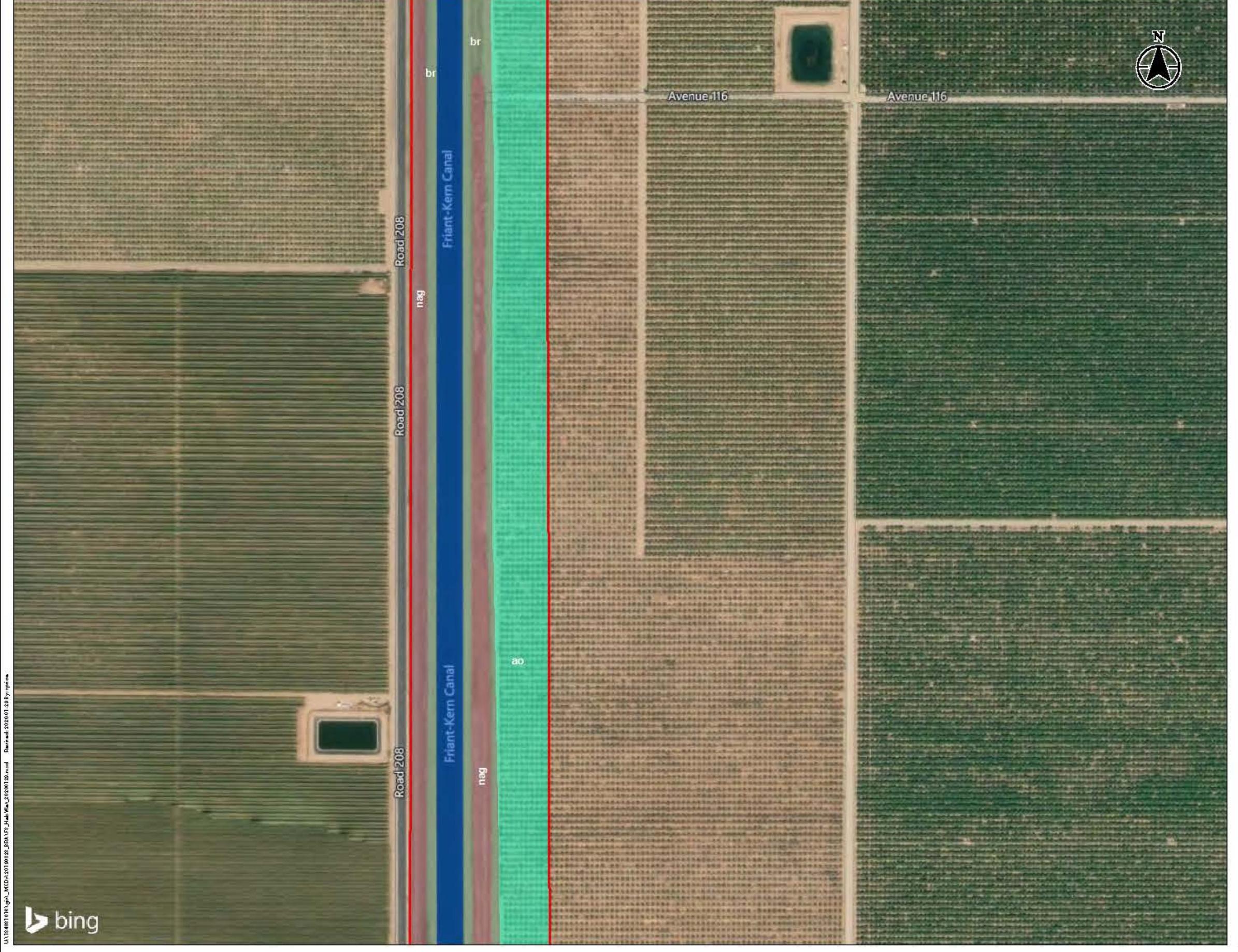


Figure No.
3V

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP on 2020-01-29

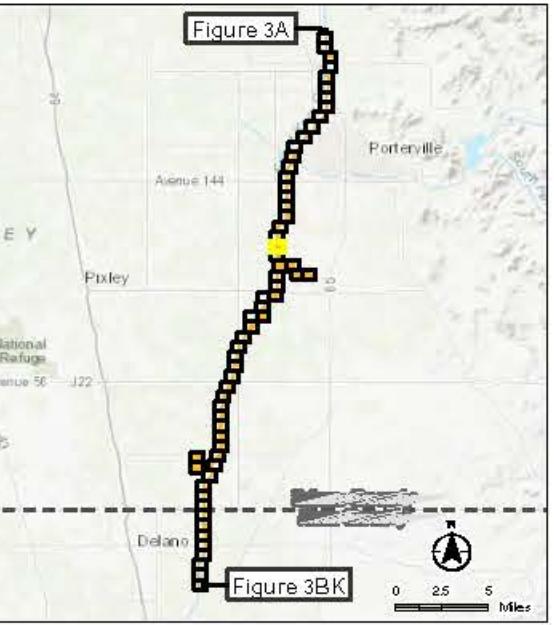
1:3,708 (At original document size of 11x17)

0 150 300 600 Feet

Project Area

Habitat

- Agriculture – Orchard (ao)
- Barren/Ruderal (br)
- Non-Native Annual Grassland (nag)
- Water (w)



Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthoimagery Bing Maps, 2019



Figure No.
3W

Habitats within the Project Area

lient/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

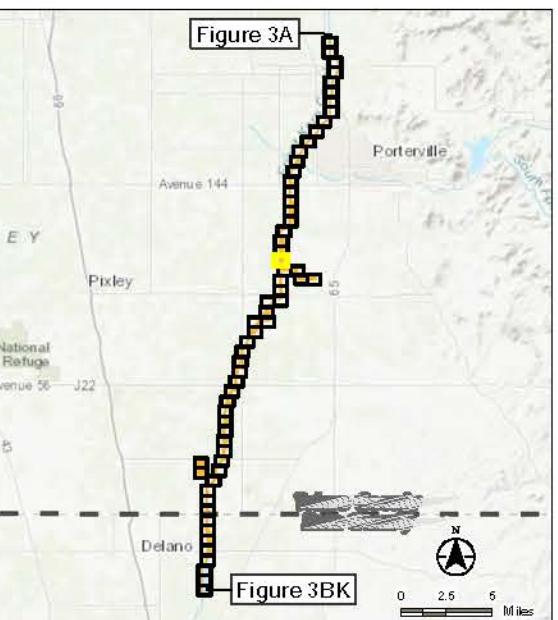
Object Location
Sutter and Kern Counties, CA
5' USGS Quadrangles
Porterville, California (1971)
Borax School, California (1971)
Lugor, California (1972)

184031016
Prepared by SCP on 2020-01-29

1 inch = 300 feet

1:3,708 (At original document size of 11x11)

	Project Area
	Habitat
	Agriculture – Orchard (ao)
	Agriculture – Vineyard (av)
	Barren/Ruderal (br)
	Non-Native Annual Grassland (nag)
	Urban (u)
	Water (w)

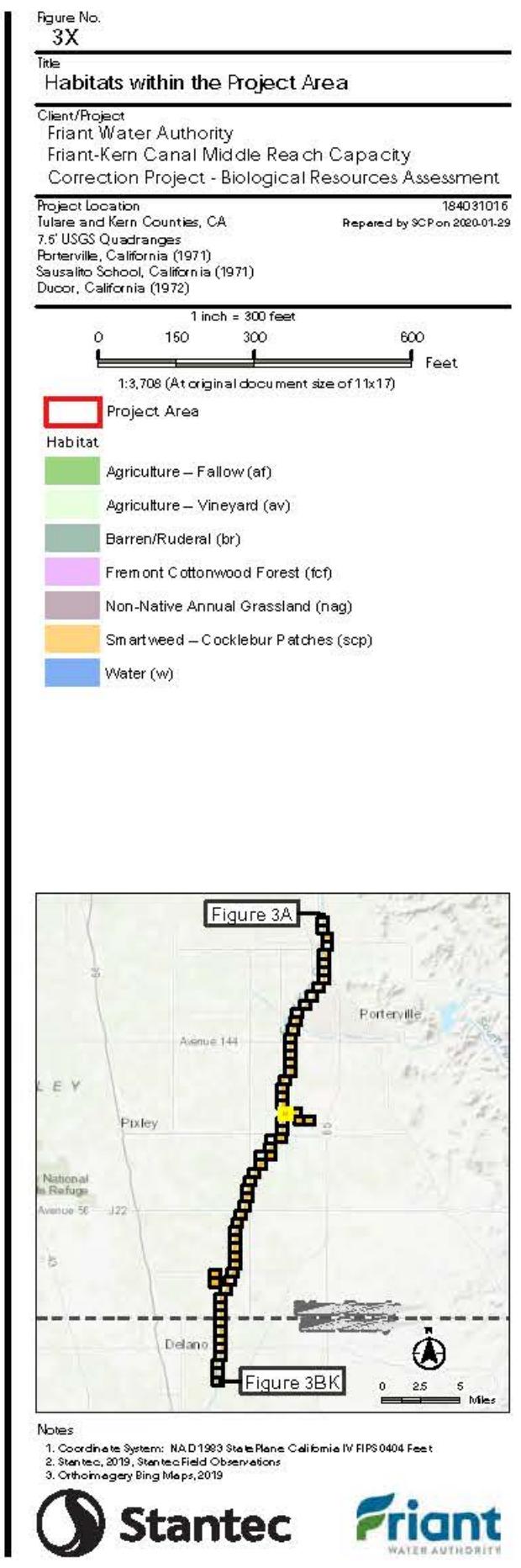


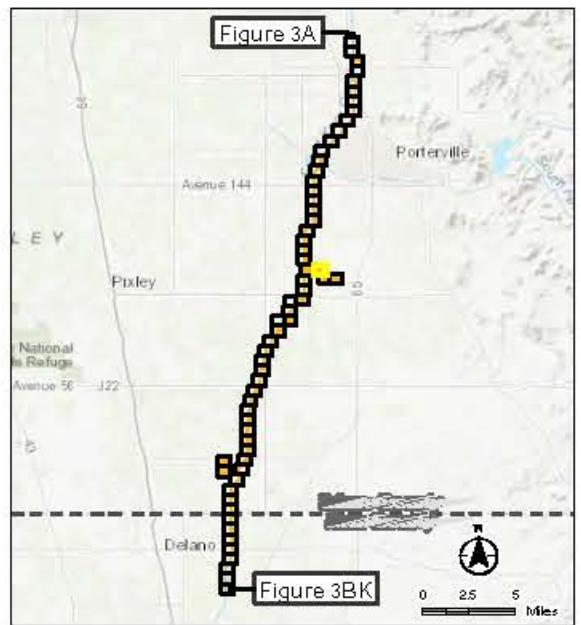
Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
Stantec, 2019, Stantec Field Observations
Orthomagery Bing Maps, 2019

 Stantec

Friant
WATER AUTHORITY

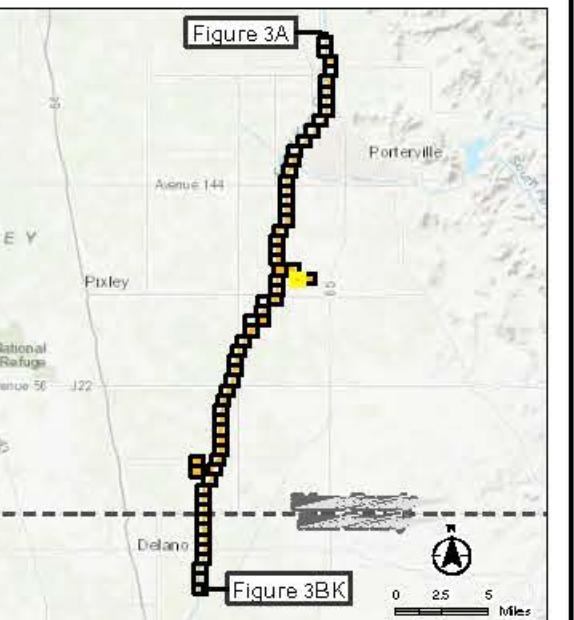
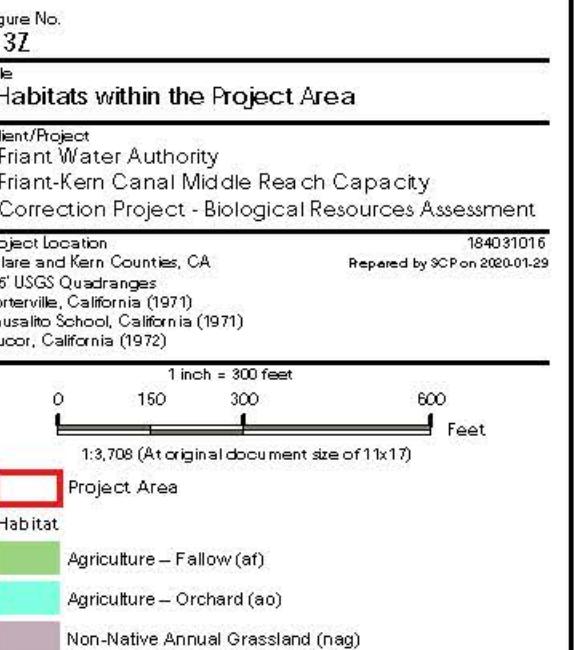


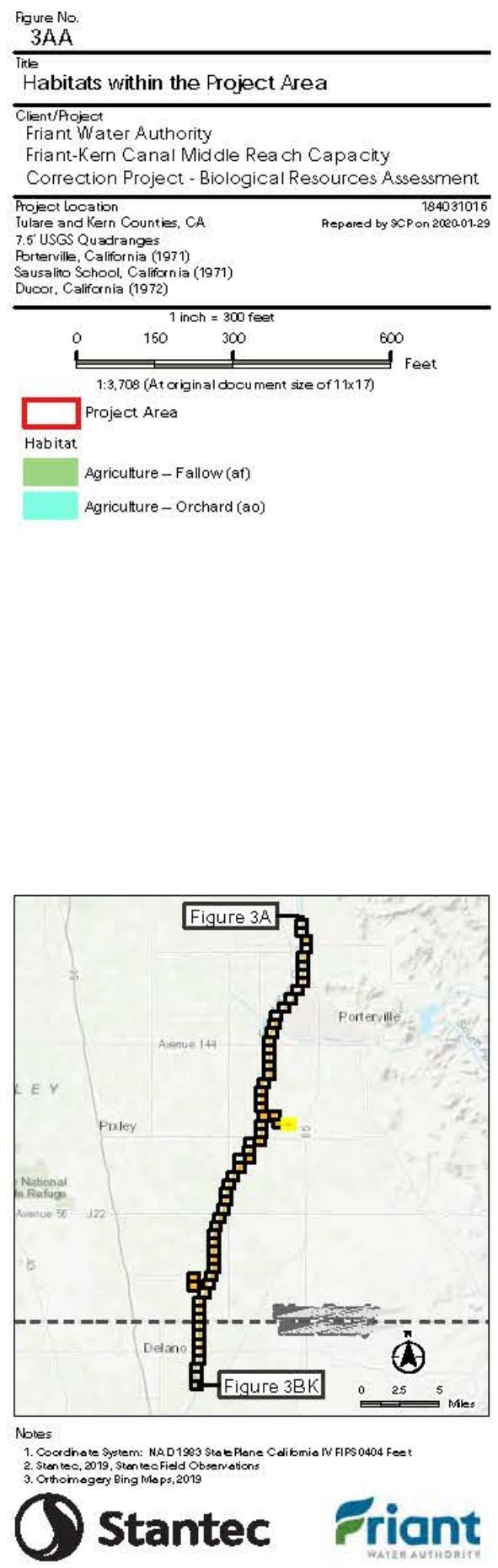


Notes
1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019

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Friant
WATER AUTHORITY





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Figure No. 3AB

Title Habitats within the Project Area

Client/Project Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project - Biological Resources Assessment

Project Location Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP on 2020-01-29

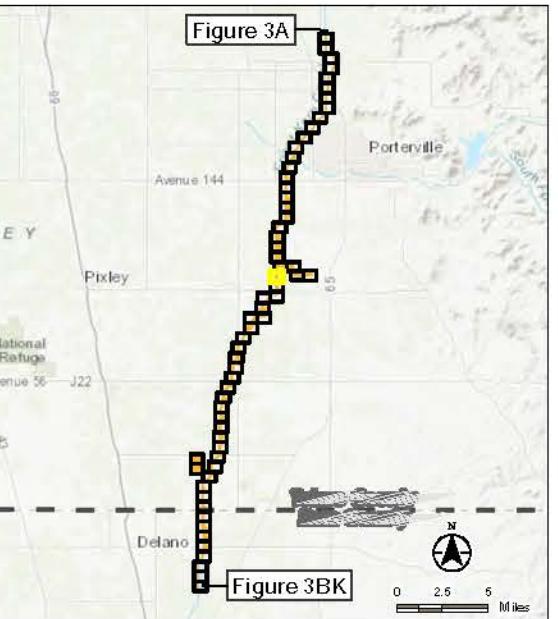
1 inch = 300 feet
0 150 300 600 Feet

1:3,708 (At original document size of 11x17)

Project Area

Habitat

- Agriculture – Orchard (ao)
- Barren/Ruderal (br)
- Fremont Cottonwood Forest (fcf)
- Mulefat Thickets (mt)
- Non-Native Annual Grassland (nag)
- Smartweed – Cocklebur Patches (scp)
- Water (w)



Notes

1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthomagery Bing Maps, 2019



Figure No.
3AC

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Object location
Madera and Kern Counties, CA
5' USGS Quadrangles
Porterville, California (1971)
Fresno-Saline School, California (1971)
Fresno, California (1972)

184031016
Prepared by SCP on 2020-01-29

184031016

Prepared by SCP on 2020-01-29

1 inch = 300 feet

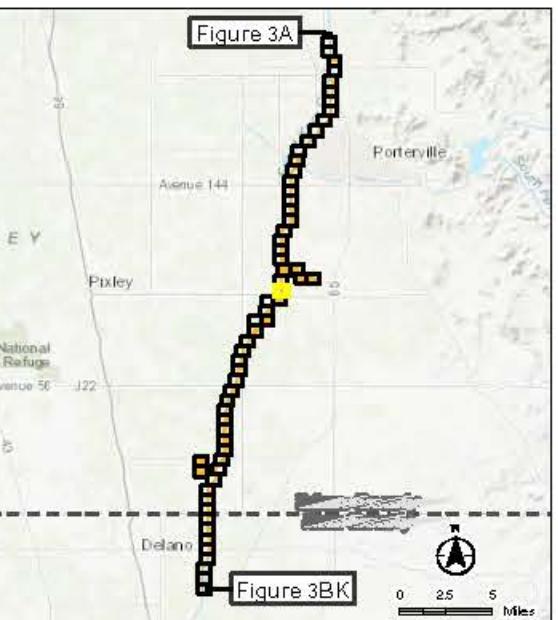
0 150 300 600

Feet

13,708 (At Long)

Habitat

- | |
|-----------------------------------|
| Agriculture – Orchard (ao) |
| Agriculture – Vineyard (av) |
| Barren/Ruderal (br) |
| California Buckwheat Scrub (cbs) |
| Non-Native Annual Grassland (nag) |
| Urban (u) |
| Water (w) |

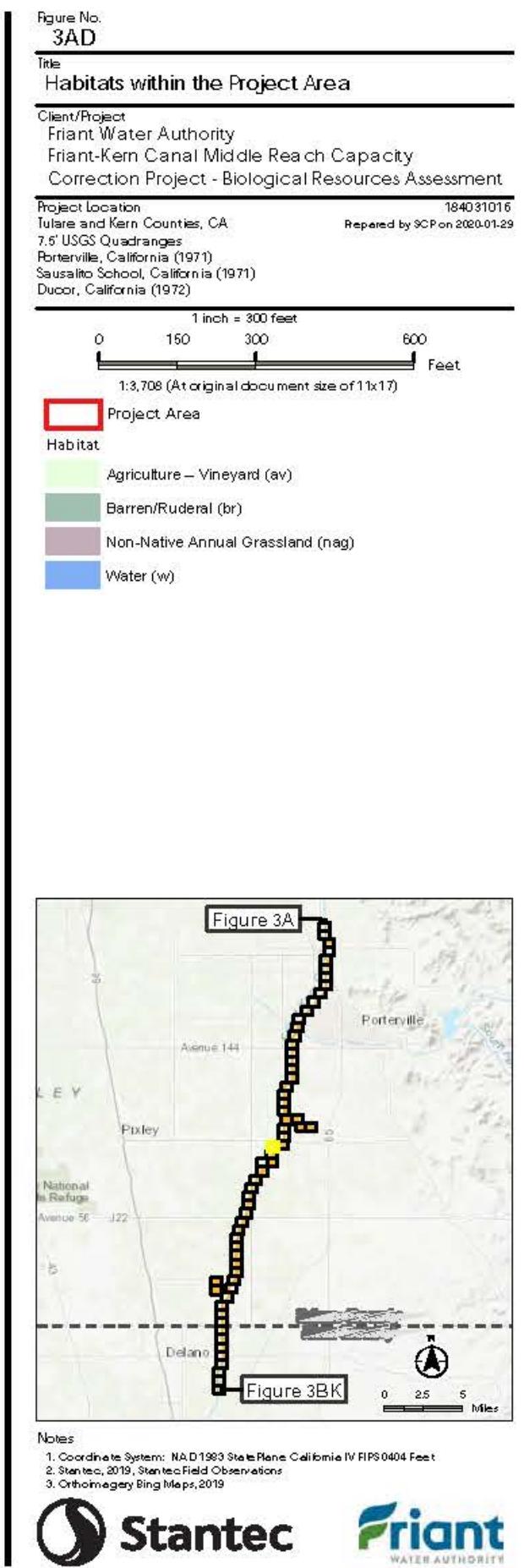


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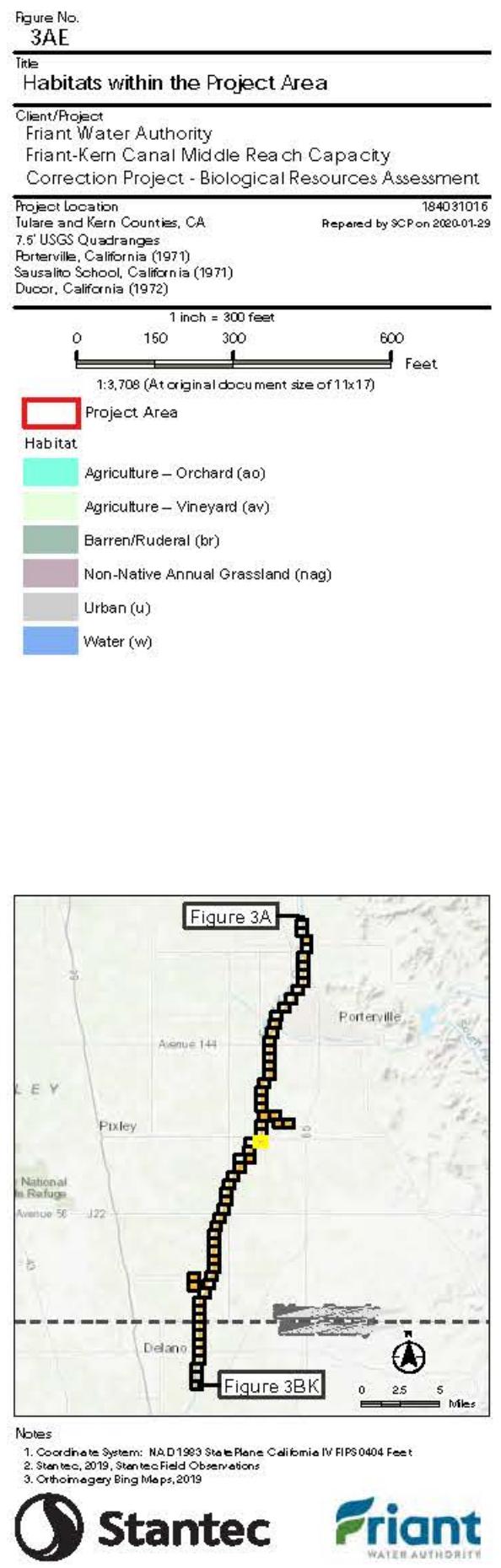
1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019

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Friant
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Figure No.
3AF

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Object Location 184031016
Madera and Kern Counties, CA Prepared by SCP on 2020-01-29
5' USGS Quadrangles
Porterville, California (1971)
Fresno-Salinas School, California (1971)
Visalia, California (1972)

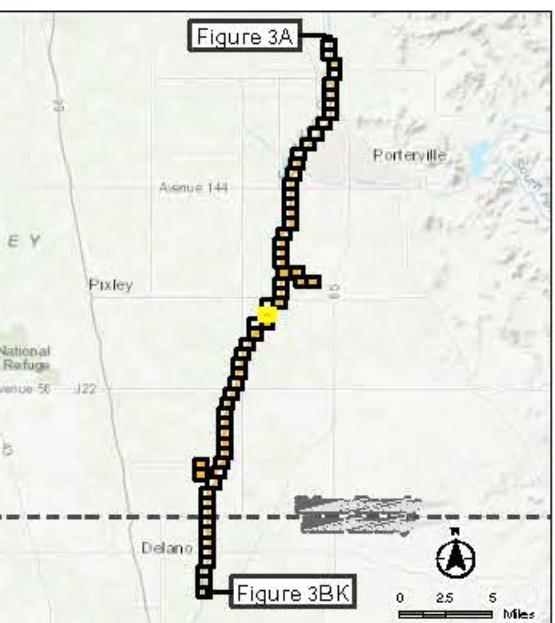
184031016

Prepared by SCP on 2020-01-29

13,708 (At long)

Habitat

- | |
|---|
|  Agriculture – Orchard (ao) |
|  Agriculture – Vineyard (av) |
|  Barren/Ruderal (br) |
|  Non-Native Annual Grassland (nag) |
|  Urban (u) |
|  Water (w) |



Notes

1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019

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WATER AUTHORITY



Figure No.
3AG

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Revised by SCP on 2020-01-29

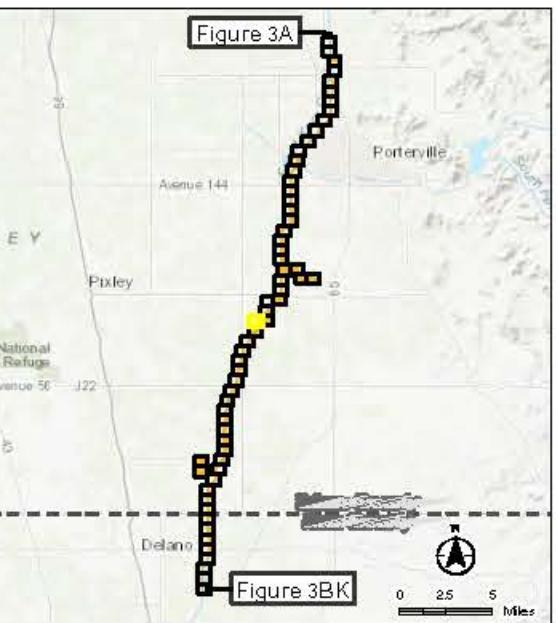
1 inch = 300 feet
0 150 300 600 Feet

1:3,708 (At original document size of 11x17)

Project Area

Habitat

- Agriculture – Orchard (ao)
- Barren/Ruderal (br)
- Non-Native Annual Grassland (nag)
- Water (w)

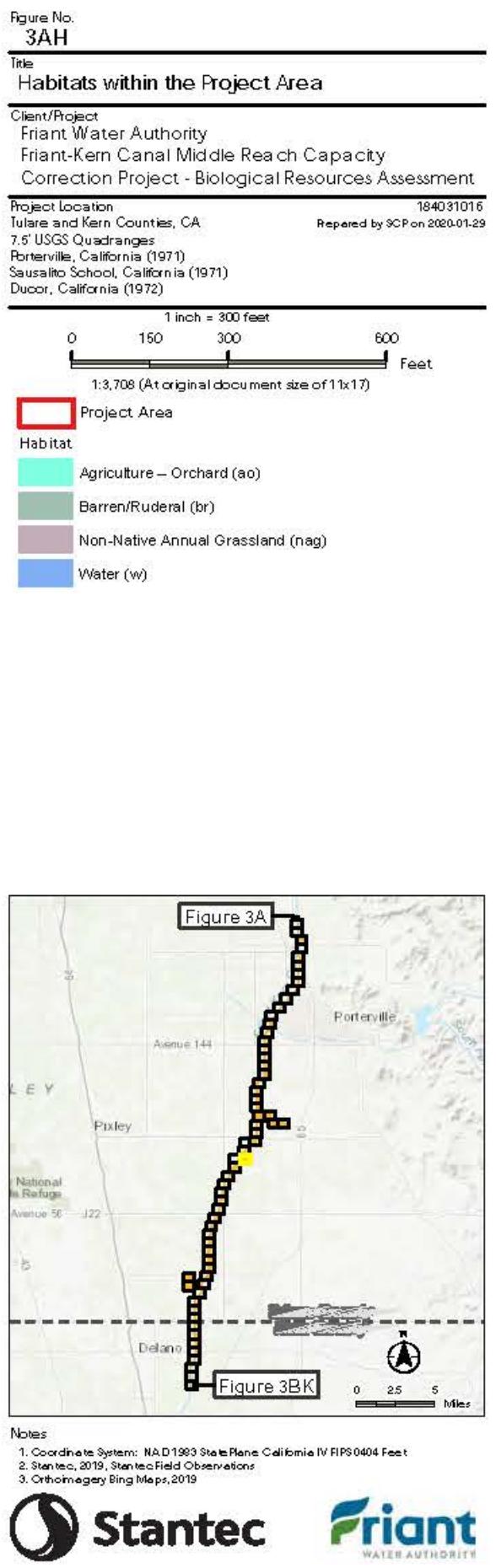
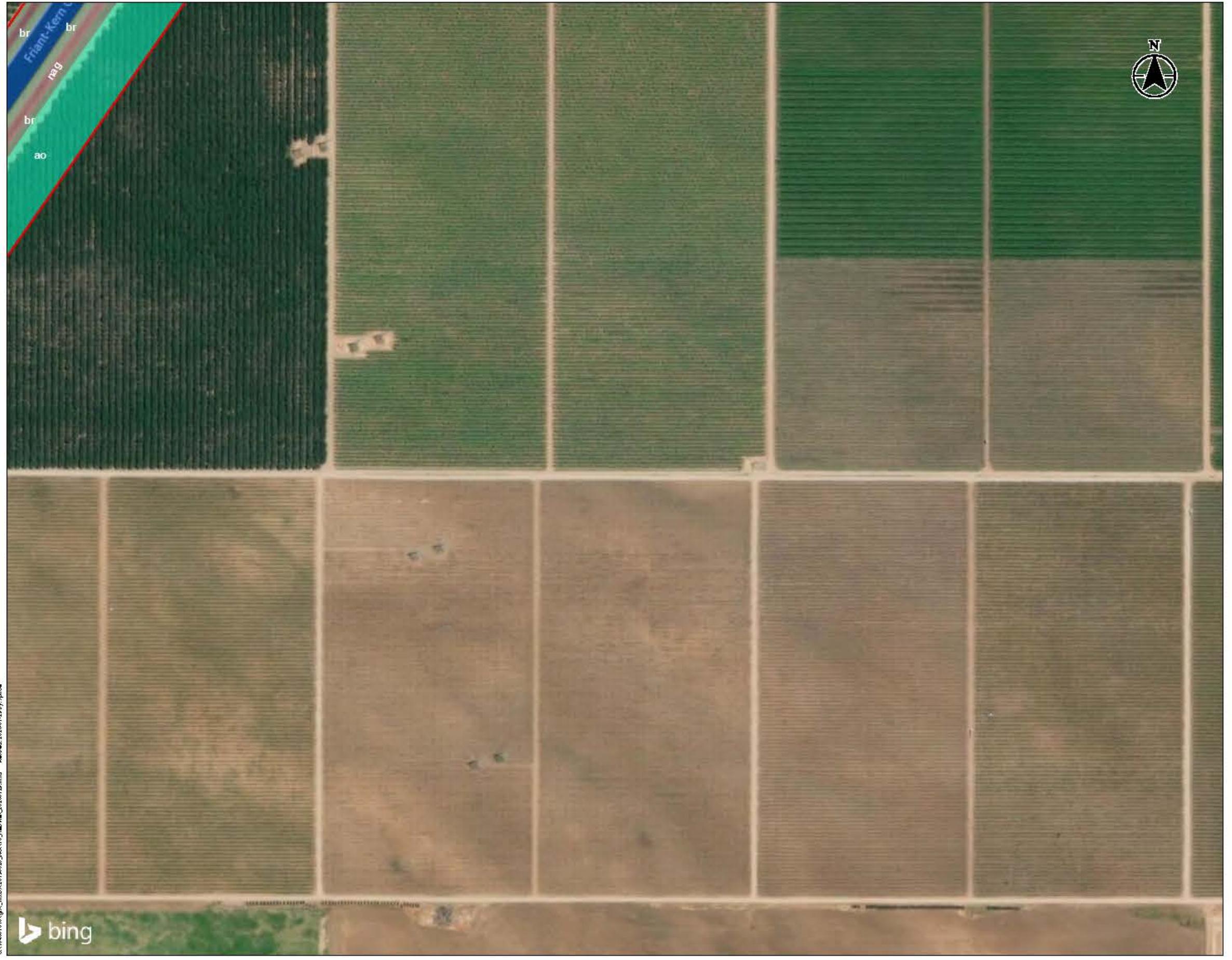


Notes

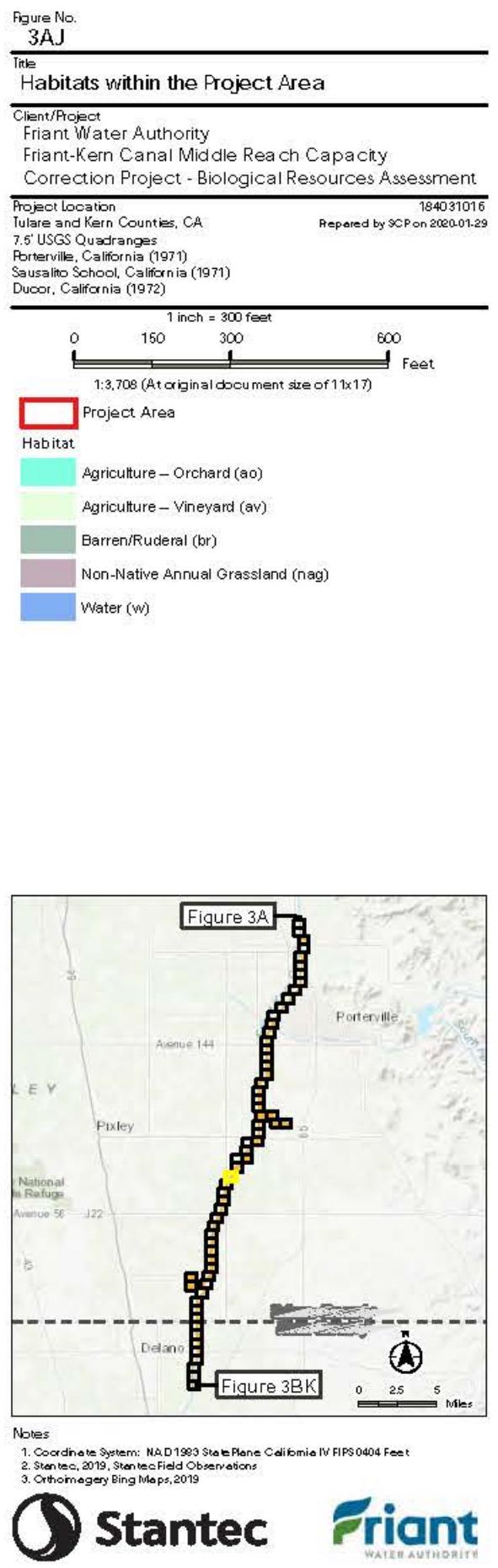
- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthoimagery Bing Maps, 2019

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Friant
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Figure No.
3AK

Title

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location	184031016
Tulare and Kern Counties, CA	Prepared by SCP on 2020-01-29
7.5' USGS Quadrangles	
Porterville, California (1971)	
Sausalito School, California (1971)	
Ducor, California (1972)	

Prepared by SCP on 2020-01-29

1 inch = 300 feet

0 150 300 600

Feet

Project Area

Habitat

Agriculture – Orchard (ao)

Agriculture – Vineyard

Barren/Ruderal (br)

Non-Native Ann

Urban (u)

Water (w)

Map showing the proposed pipeline route from Porterville to Delano, California. The route is marked with a thick black line and yellow squares. A dashed line extends the route further west. Labels include Avenue 144, Porterville, Pixley, National Wildlife Refuge, Avenue 56, J22, and Delano. A scale bar shows 0, 2.5, and 5 miles. Figure 3A is at the top left, and Figure 3BK is at the bottom right.

Notes

1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019





Figure No.
3AL

Title

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location 184031016
Tulare and Kern Counties, CA Reported by SCP on 2020-01-29
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016

Prepared by SCP on 2020-01-29

1 inch = 300 feet

0 150 300 600

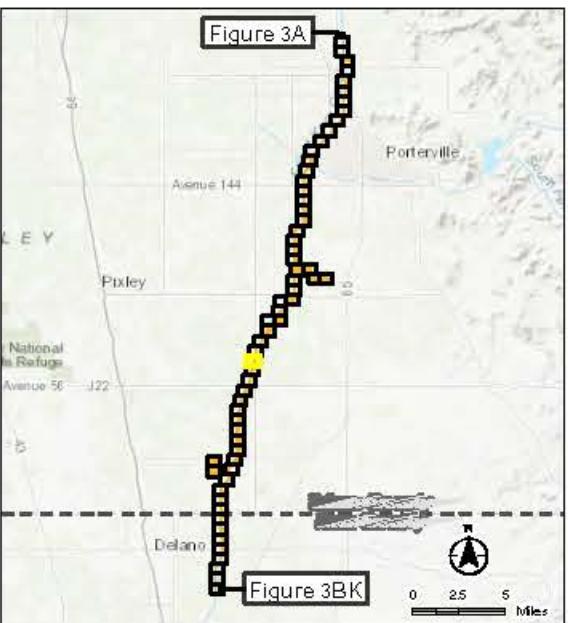
Feet

Project Area

Habitat

- A legend showing six categories of vegetation types, each associated with a colored square and a label:

 - Agriculture – Orchard (ao)
 - Agriculture – Vineyard (av)
 - Barren/Ruderal (br)
 - Non-Native Annual Grassland (nag)
 - Urban (u)
 - Water (w)

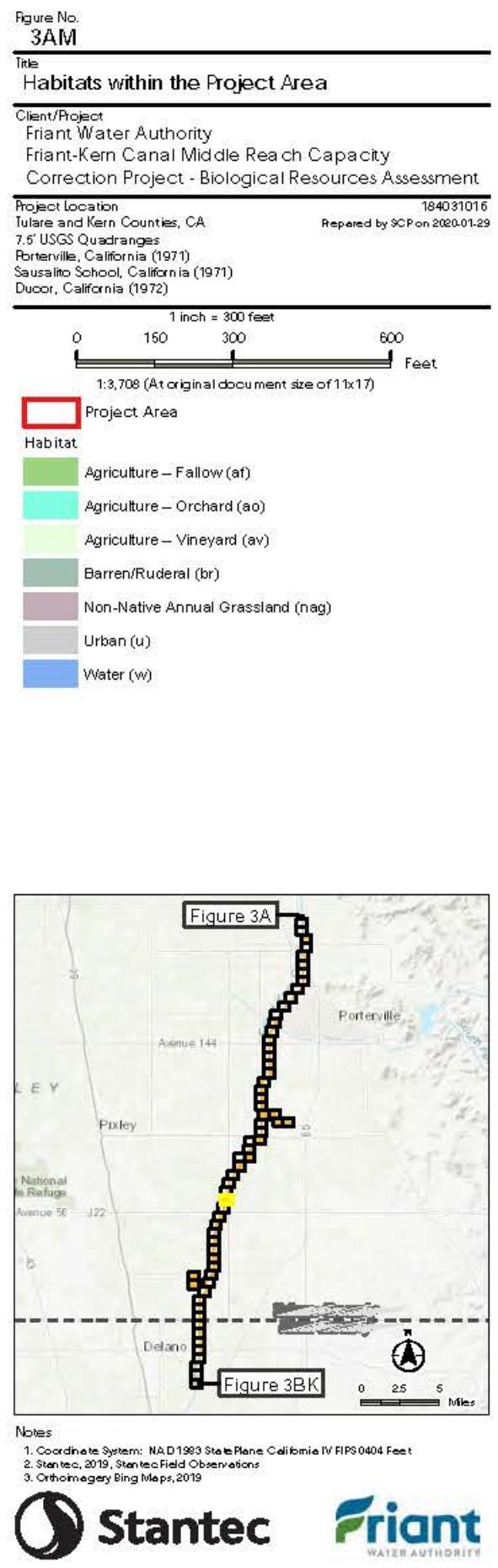


Notes

1. Coordinate System: NAD1983 StatePlane California IV FIPS0404 Feet
 2. Stantec, 2019, Stantec Field Observations
 3. Orthoimagery Bing Maps, 2019

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Figure No.
3AN

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

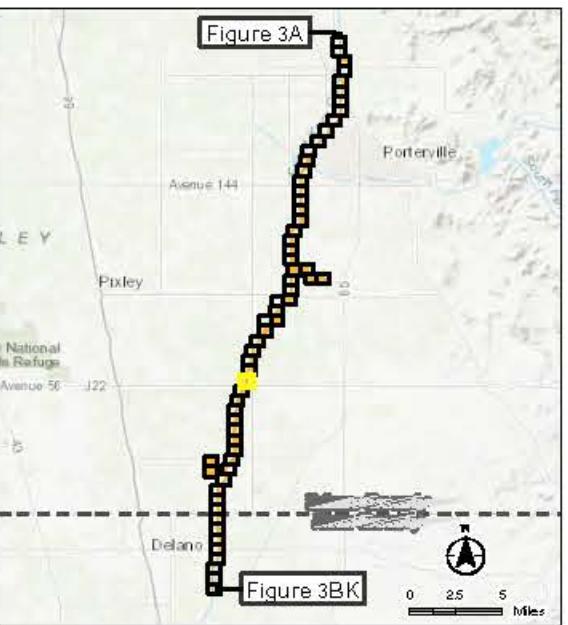
184031016
Reported by SCP on 2020-01-29

1 inch = 300 feet
0 150 300 600 Feet

1:3,708 (At original document size of 11x17)

Project Area

Agriculture – Fallow (af)
Agriculture – Orchard (ao)
Agriculture – Vineyard (av)
Barren/Ruderal (br)
Urban (u)
Water (w)

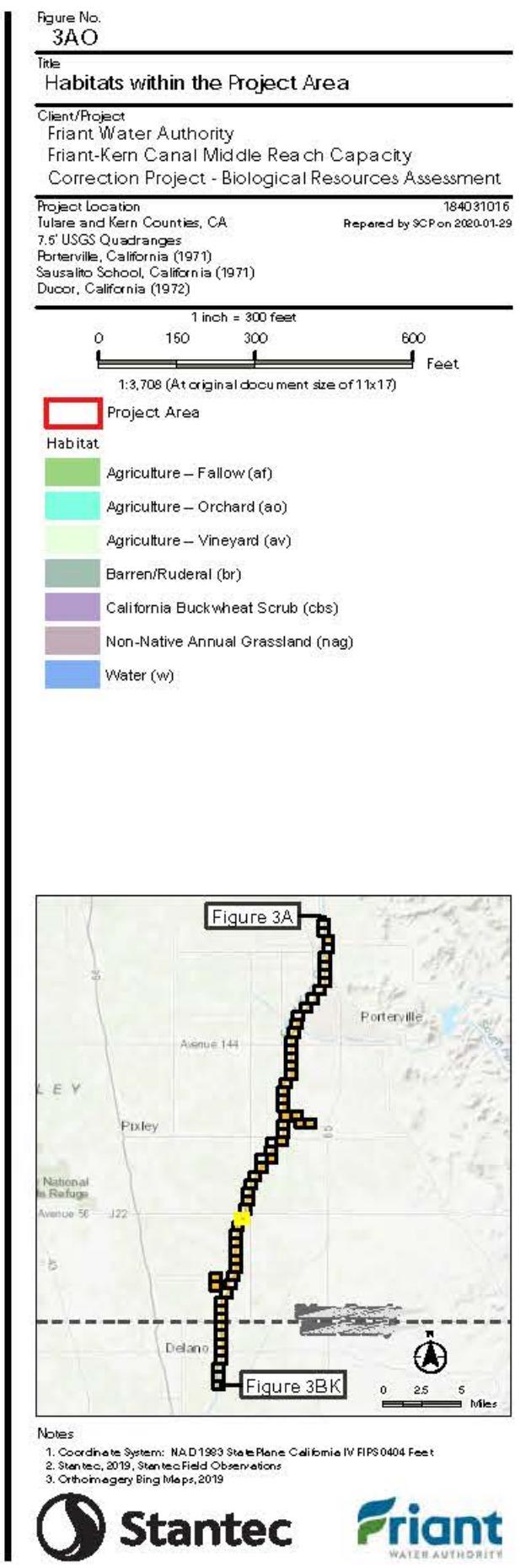


Notes

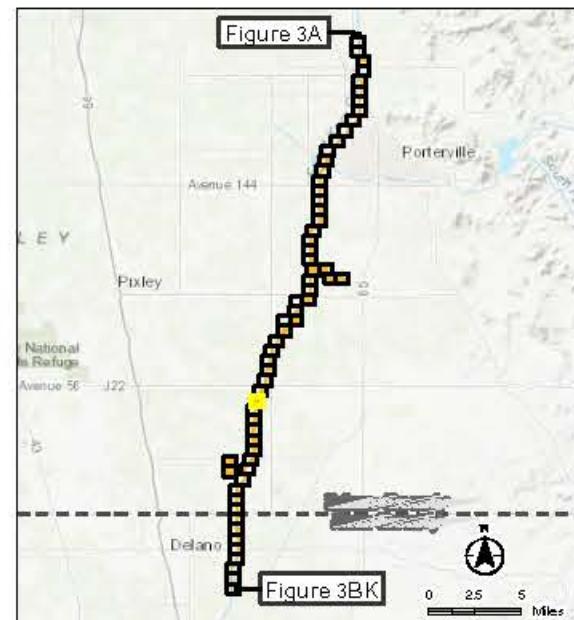
- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

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Notes:

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

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WATER AUTHORITY

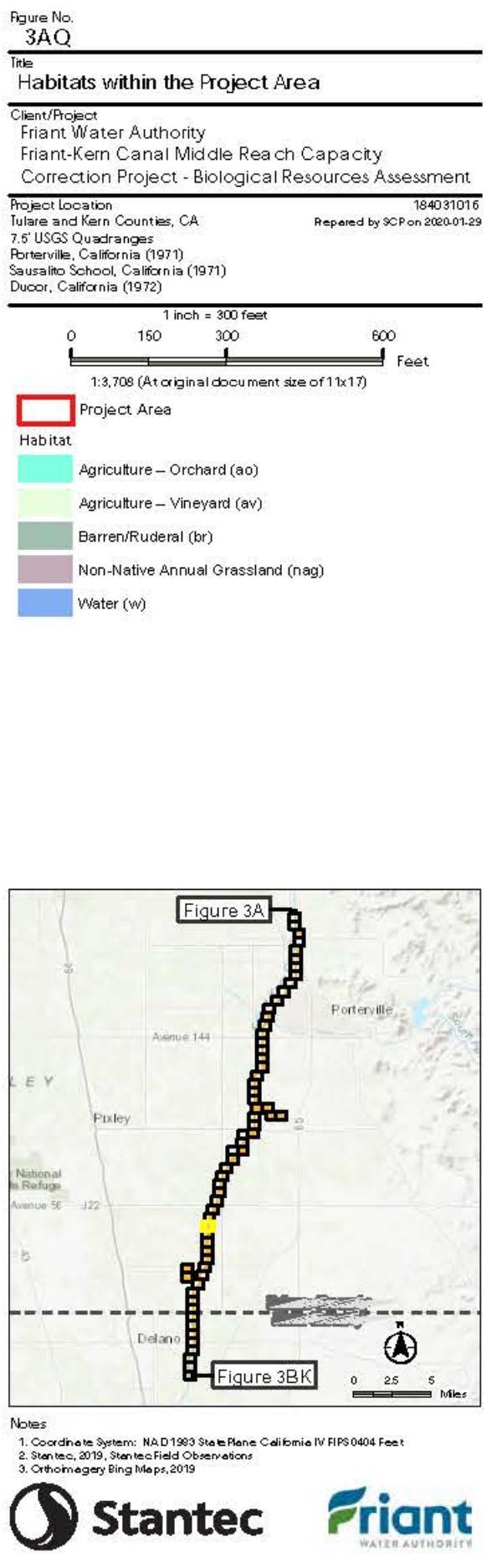
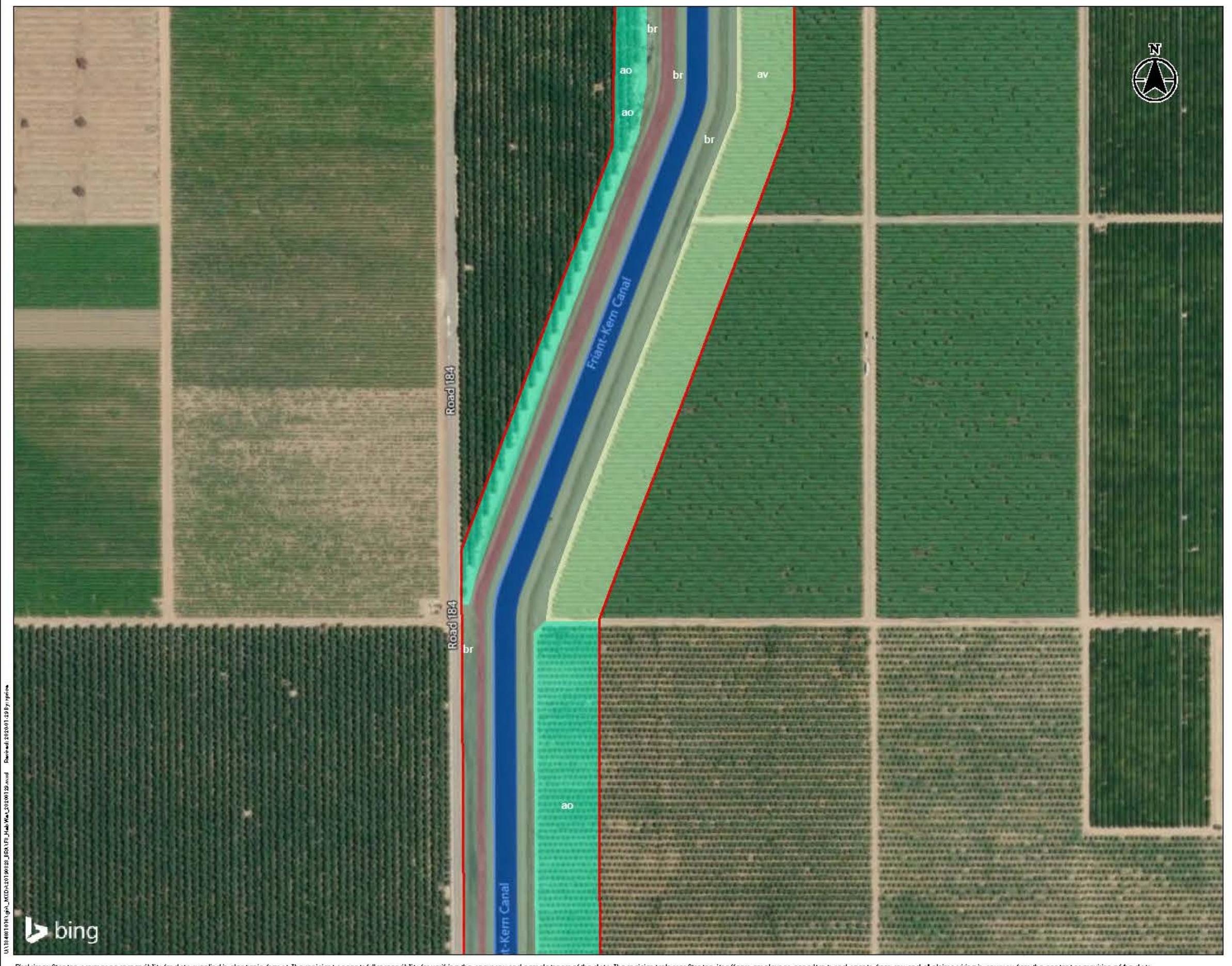
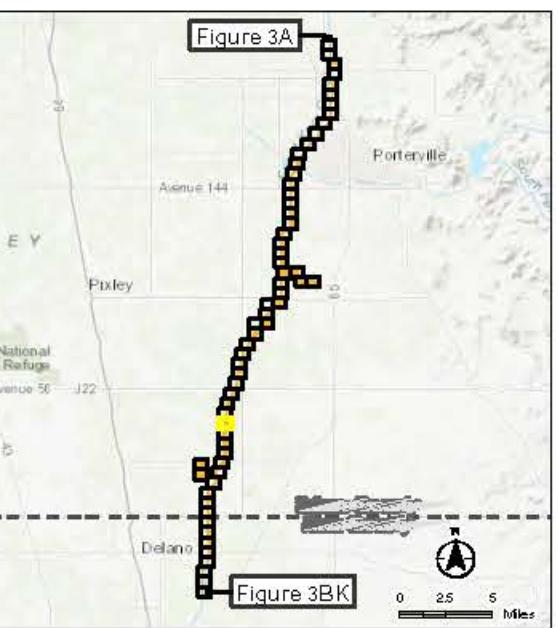




Figure No.
3AR
Title
Habitats within the Project Area
Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)
184031016
Reported by SCP on 2020-01-29
Scale
1 inch = 300 feet
0 150 300 600 Feet
1:3,708 (At original document size of 11x17)
Project Area

Habitat	Description
Agriculture – Orchard (ao)	
Barren/Ruderal (br)	
Non-Native Annual Grassland (nag)	
Urban (u)	
Water (w)	



Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

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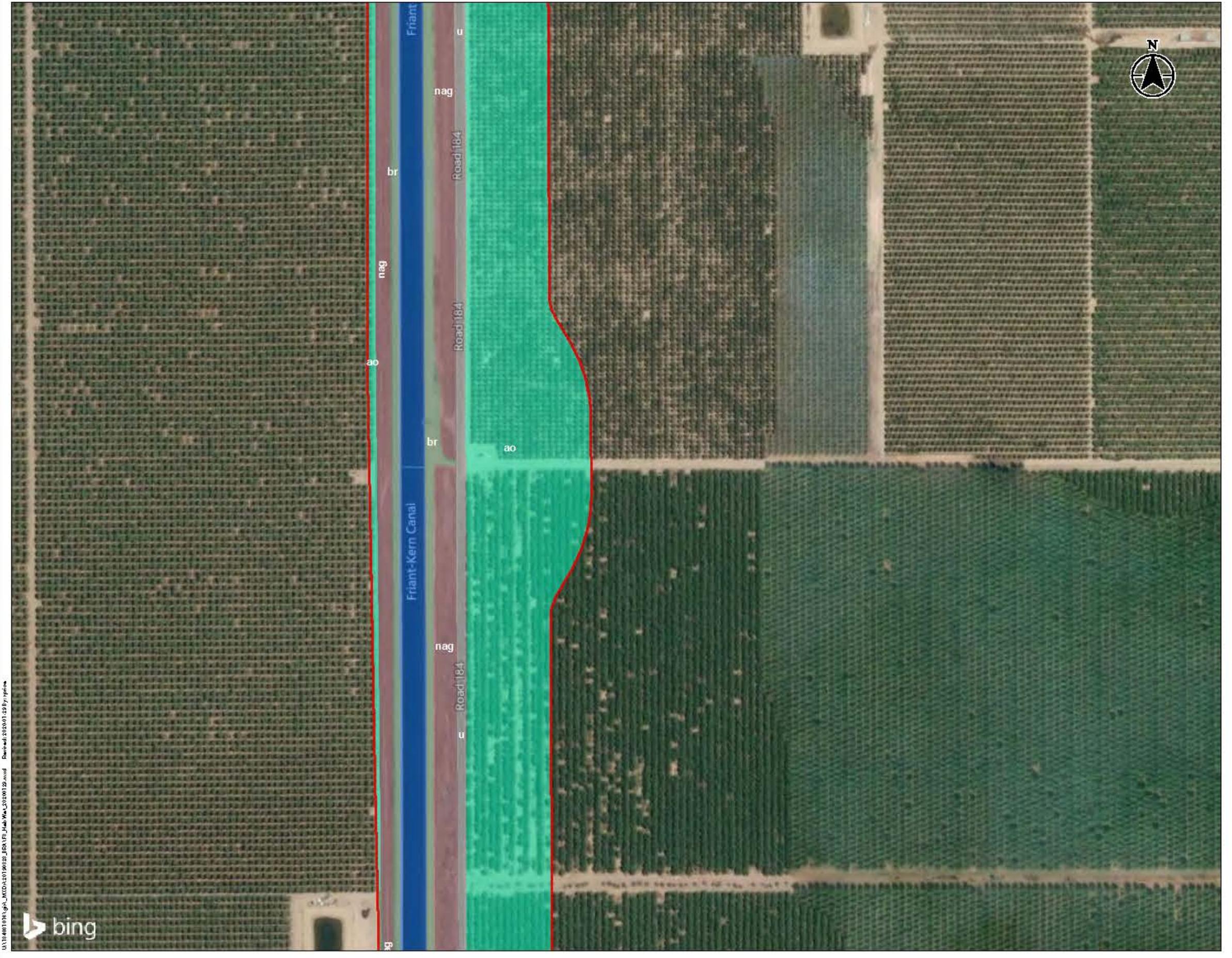


Figure No.
3AS

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

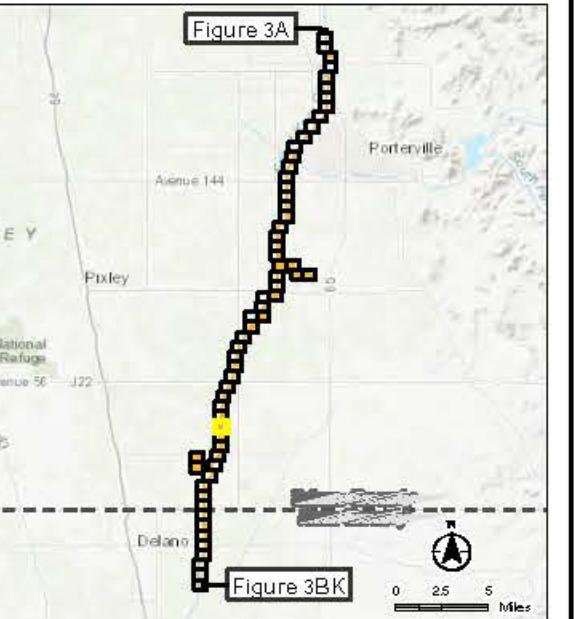
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

Scale
1:3,708 (At original document size of 11x17)

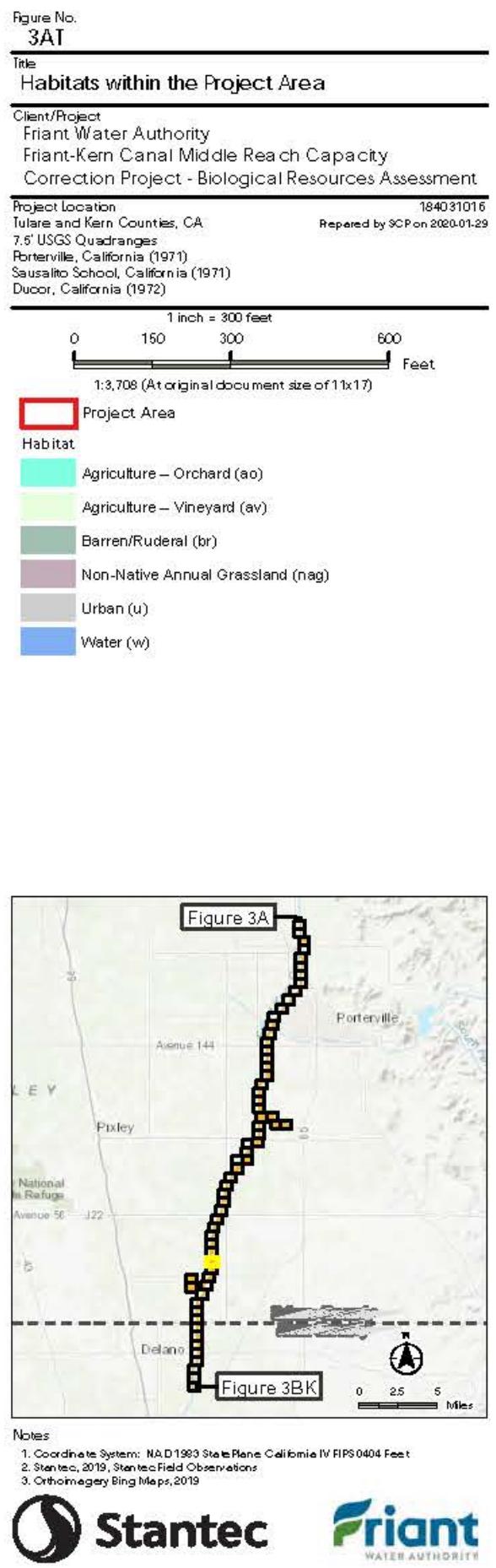
Legend

- Project Area
- Agriculture – Orchard (ao)
- Barren/Ruderal (br)
- Non-Native Annual Grassland (nag)
- Urban (u)
- Water (w)



Notes

1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019



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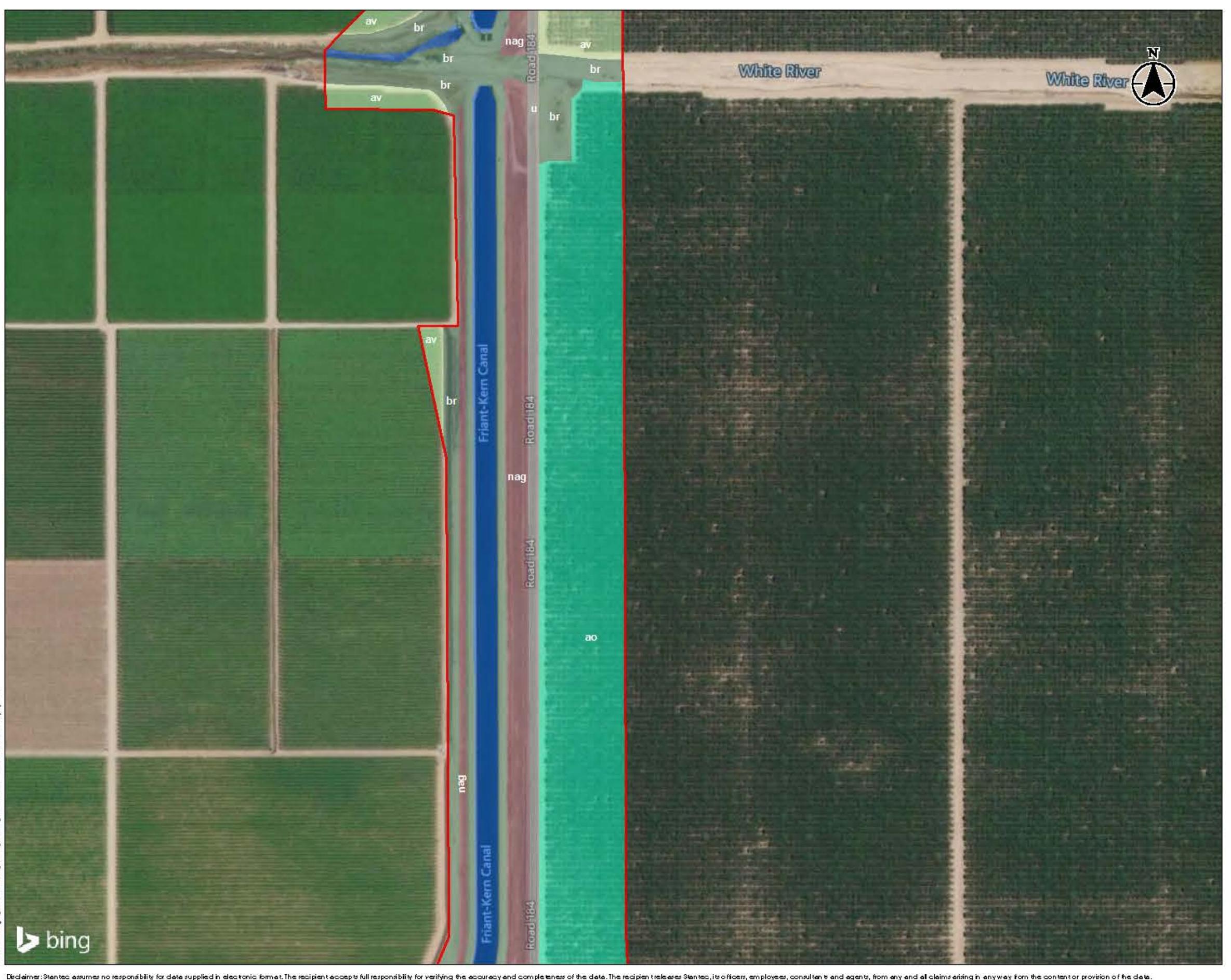


Figure No.
3AU

Title

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location 184031016
Tulare and Kern Counties, CA Reported by SCP on 2020-01-29
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

1 inch = 300 feet

0 150 300 600

Feet

Project Area

Habitat

Agriculture – Orchard (ao)

Agriculture – Vineyard (av)

Barren/Ruderal

Non-Native Annual Grassland

Urban (u)

Water (w)

Figure 3A

Figure 3BK

Notes

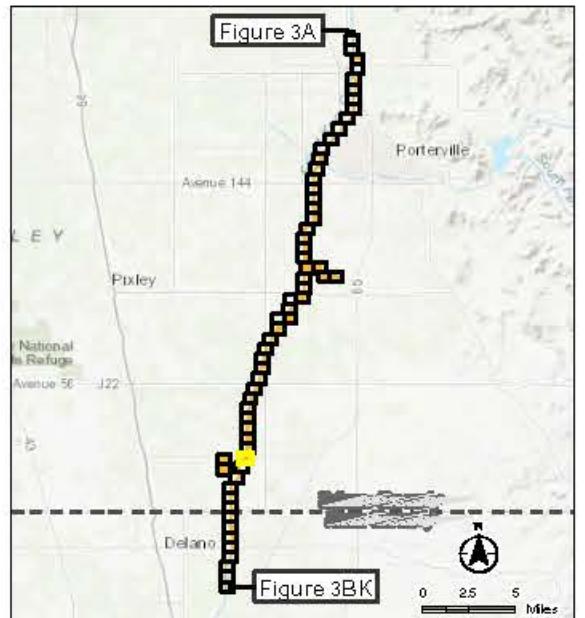
1. Coordinate System: NAD1983 StatePlane California IV FIPS0404 Feet
 2. Stantec, 2019, Stantec Field Observations
 3. Orthoimagery Bing Maps, 2019





Figure No.
3AV
Title
Habitats within the Project Area
Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles:
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)
Revised by SCP on 2020-01-29
184031016
Scale
1:3,708 (At original document size of 11x17)
1 inch = 300 feet
0 150 300 600 Feet

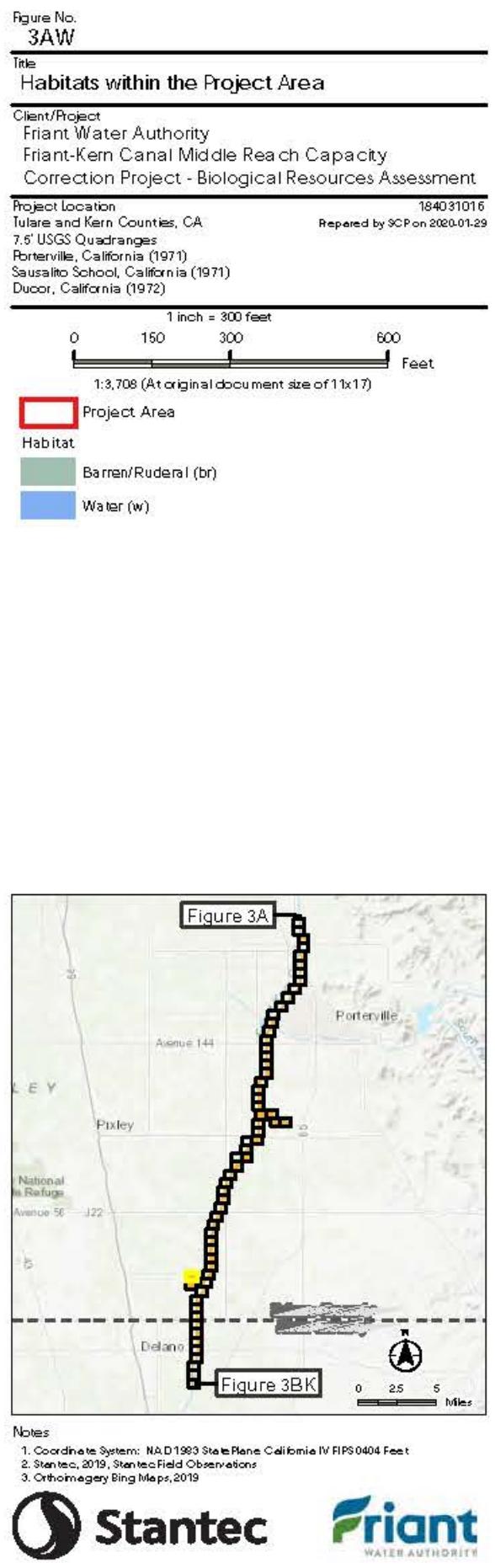
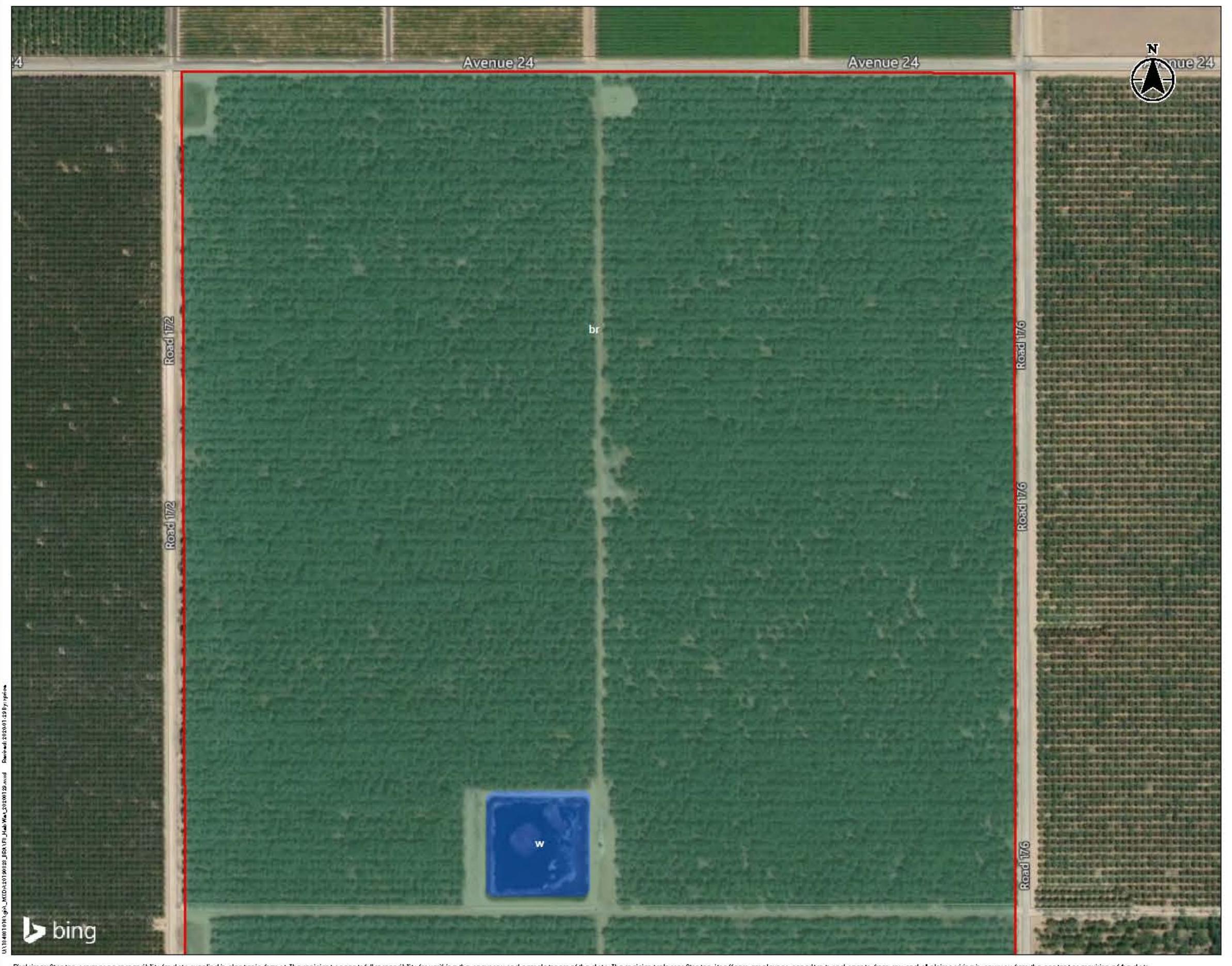
Project Area
Habitat
Agriculture – Orchard (ao)
Agriculture – Vineyard (av)
Barren/Ruderal (br)
Non-Native Annual Grassland (nag)
Urban (u)
Water (w)



Notes
 1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
 2. Stantec, 2019, Stantec Field Observations
 3. Orthorectified Bing Maps, 2019

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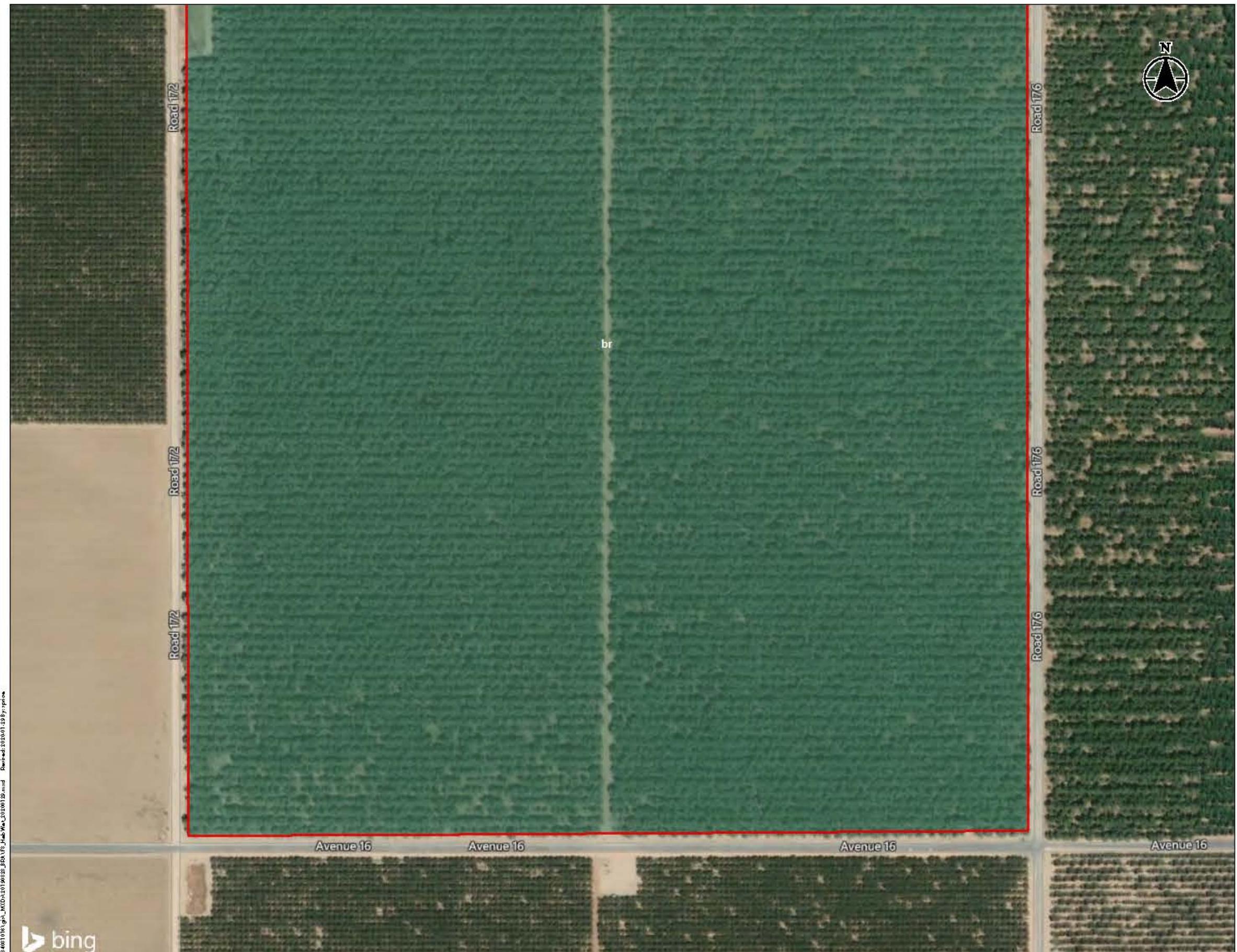


Figure No.
3AX

Title

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location 184031016
Tulare and Kern Counties, CA Reported by SCP on 2020-01-29
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP on 2020-01-29

1 inch = 300 feet

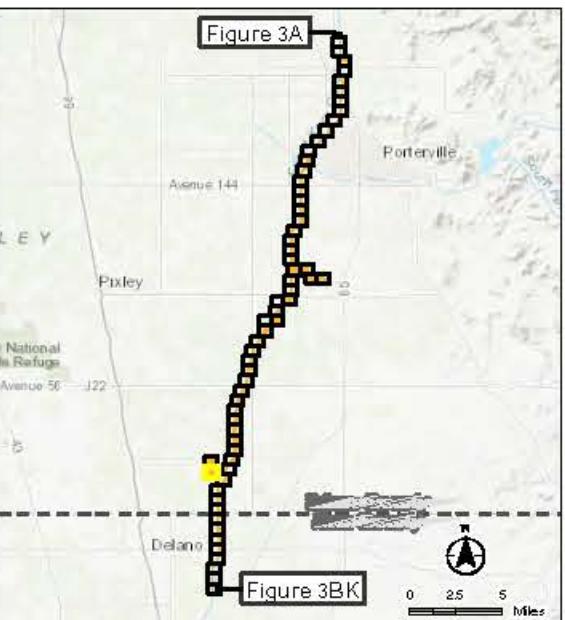
0 150 300 600

Foot

Project Area

Habitat

Barren/Ruderal (br)

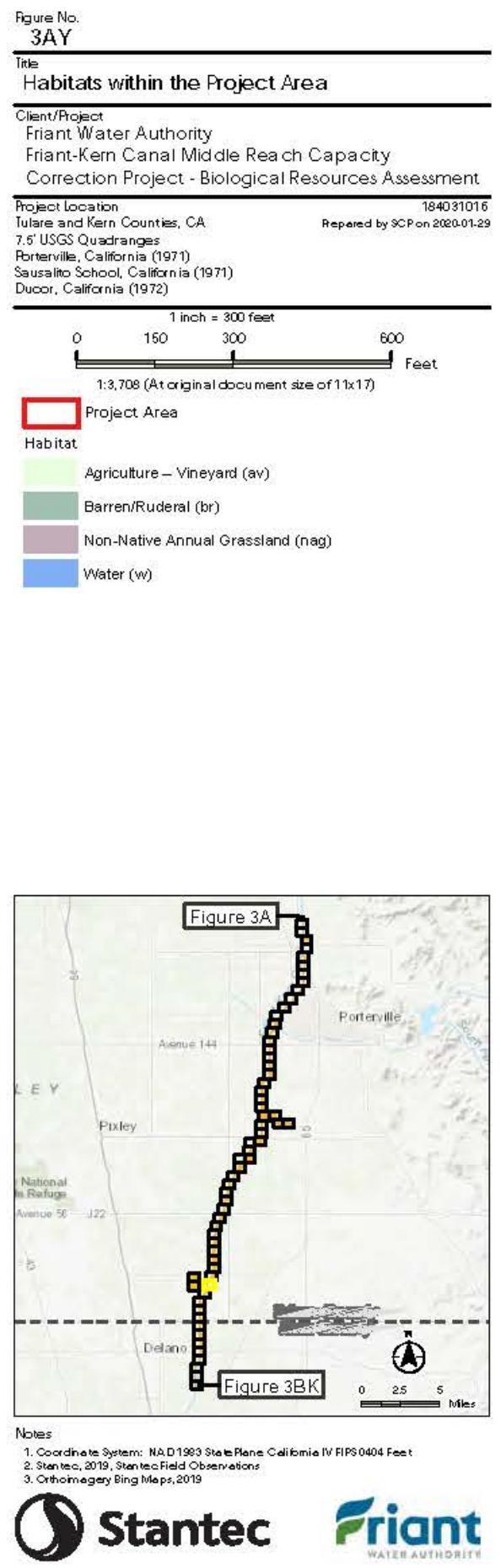
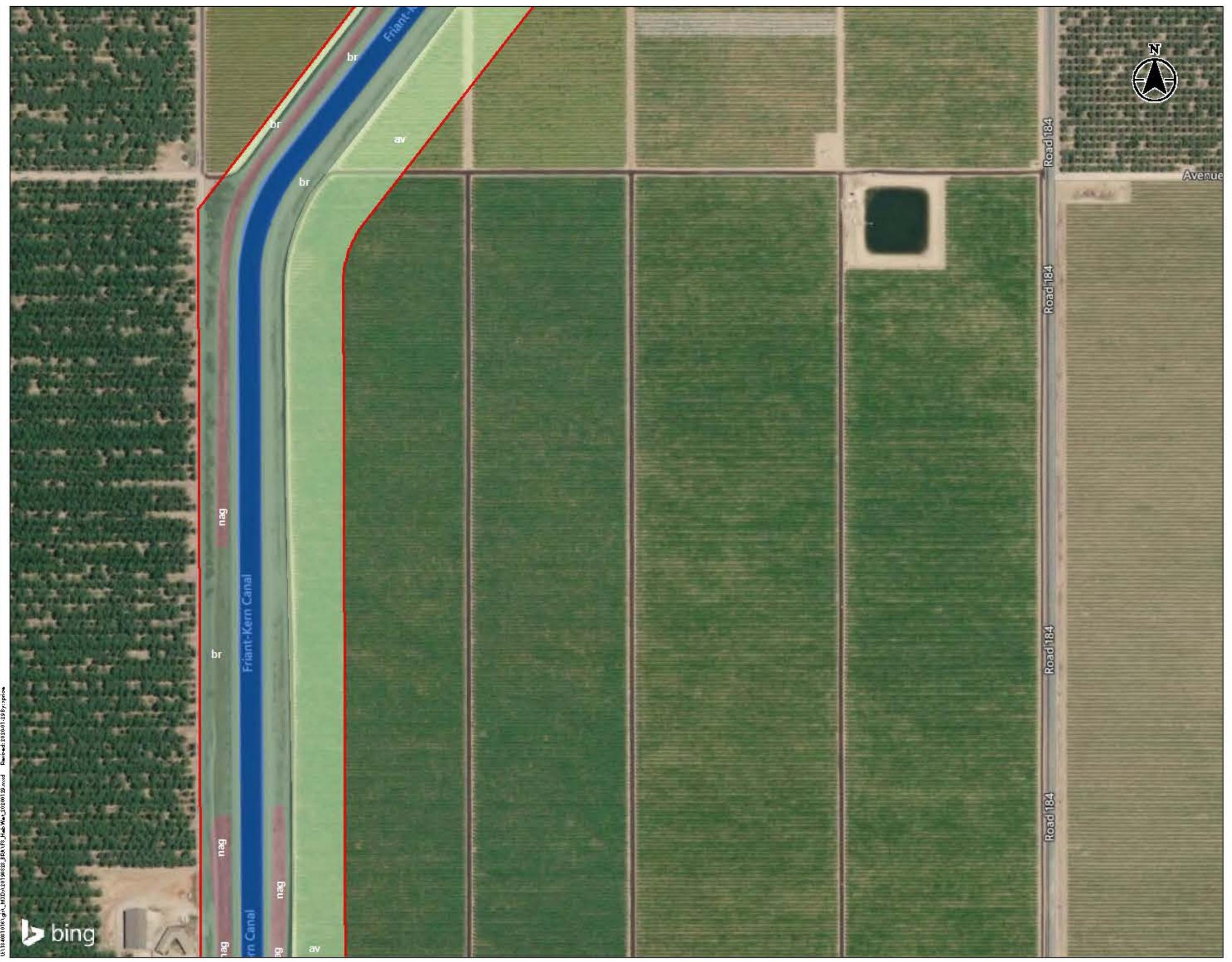


Notes

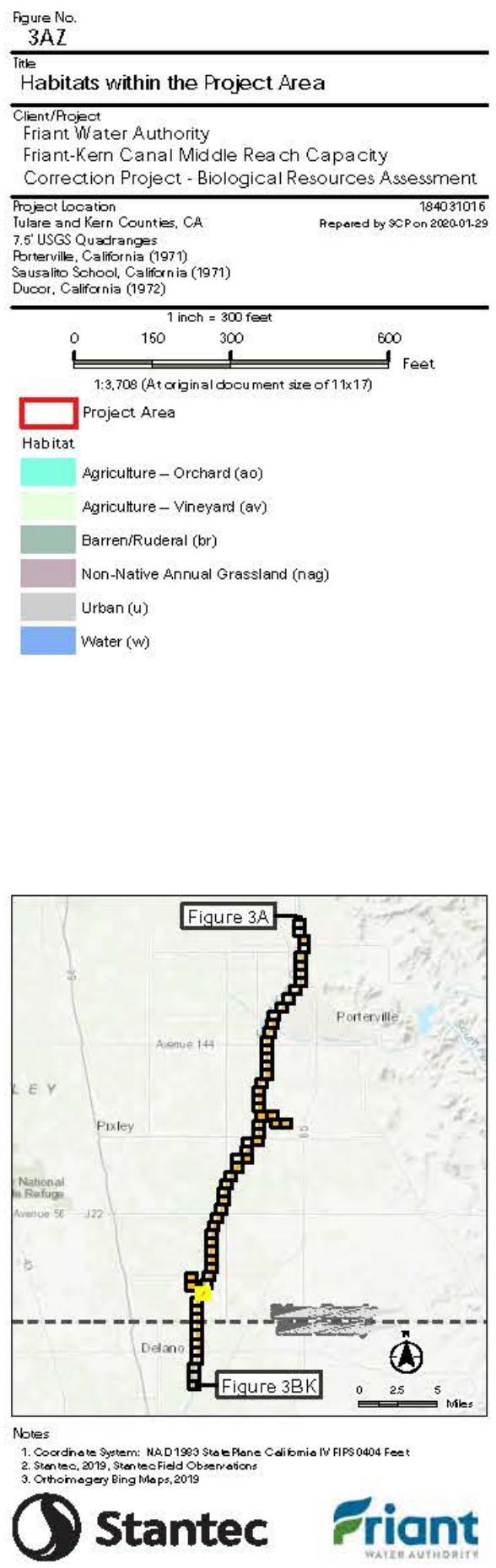
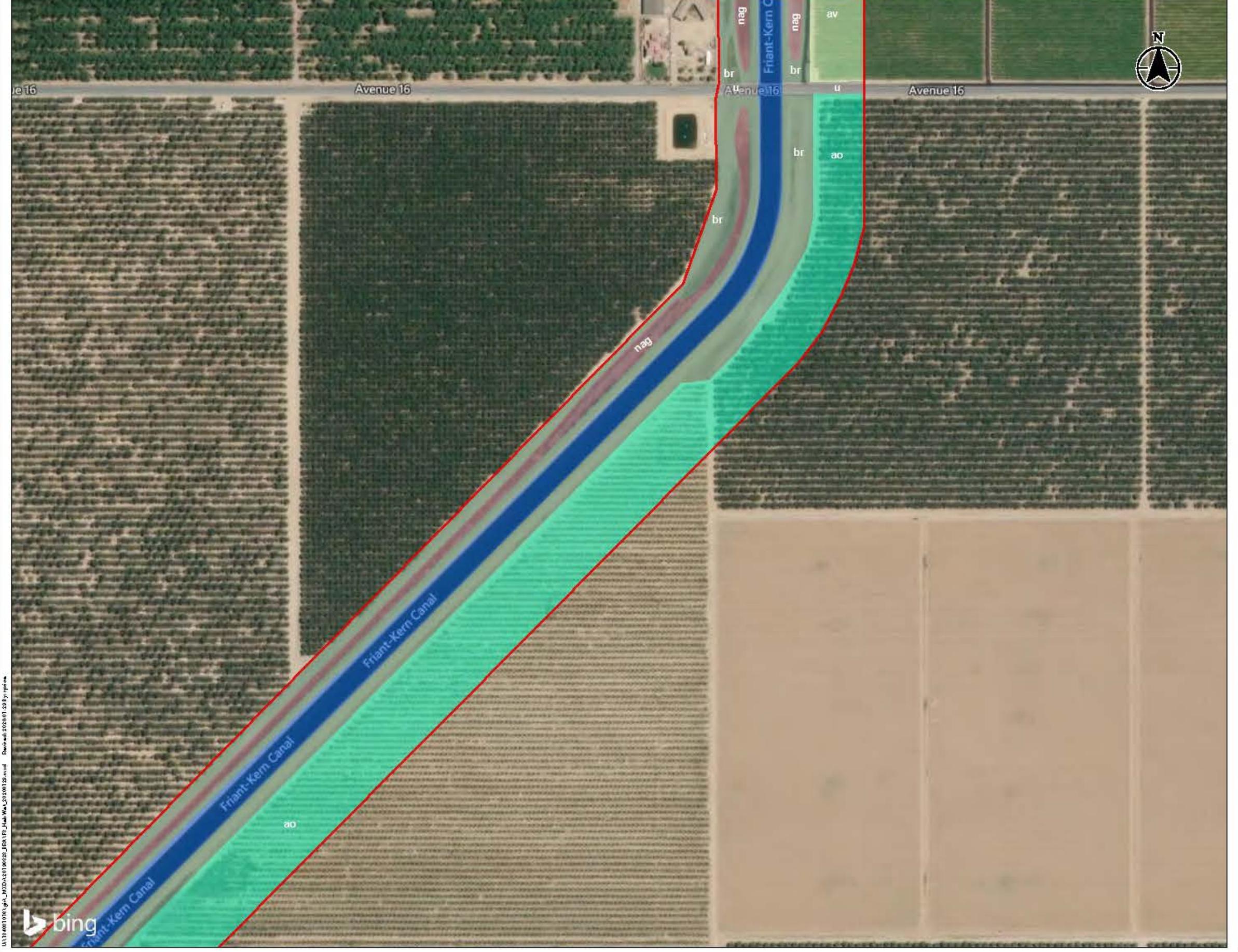
1. Coordinate System: NAD1983 StatePlane California IV FIPS0404 Feet
 2. Stantec, 2019, Stantec Field Observations
 3. Orthoimagery Bing Maps, 2019

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Figure No.
3BA

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

Scale
1 inch = 300 feet

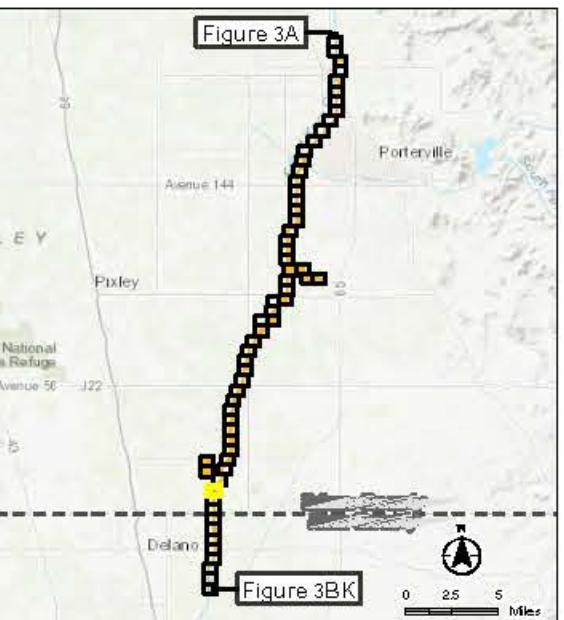
Scale Bar
0 150 300 600 Feet

Scale Note
1:3,708 (At original document size of 11x17)

Project Area

Habitat

- Agriculture – Orchard (ao)
- Barren/Ruderal (br)
- Non-Native Annual Grassland (nag)
- Urban (u)
- Water (w)



Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

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Figure No.
3BB

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

1 inch = 300 feet
0 150 300 600 Feet

1:3,708 (At original document size of 11x17)

Project Area

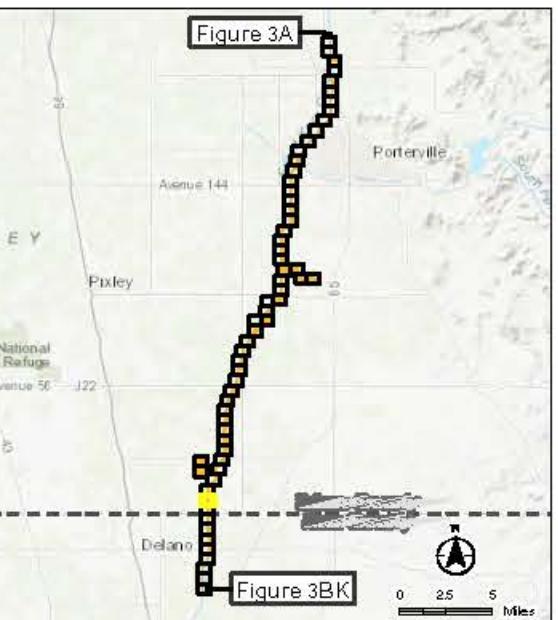
Habitat

Agriculture – Orchard (ao)

Barren/Ruderal (br)

Non-Native Annual Grassland (nag)

Water (w)

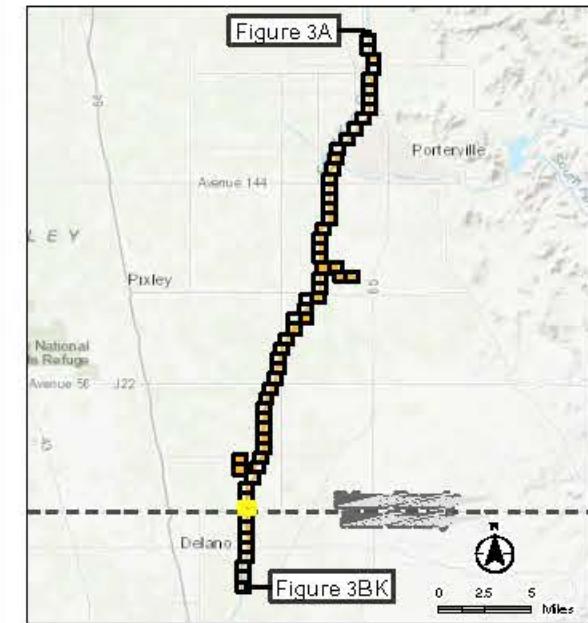
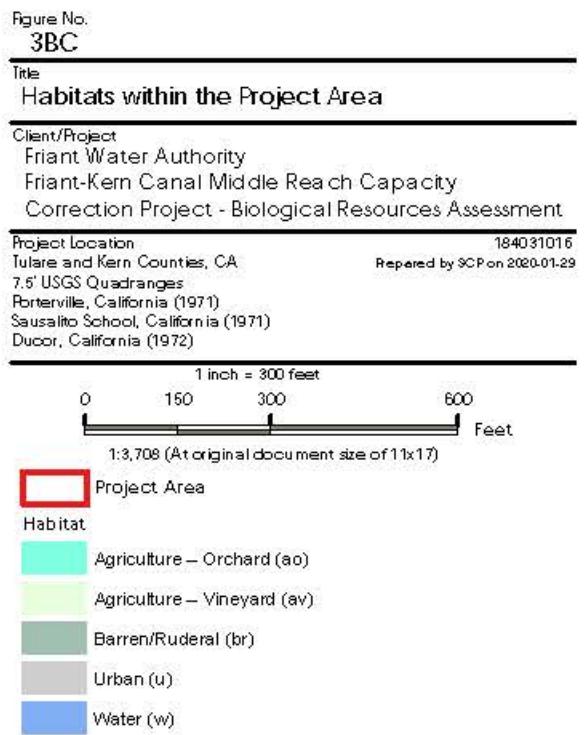
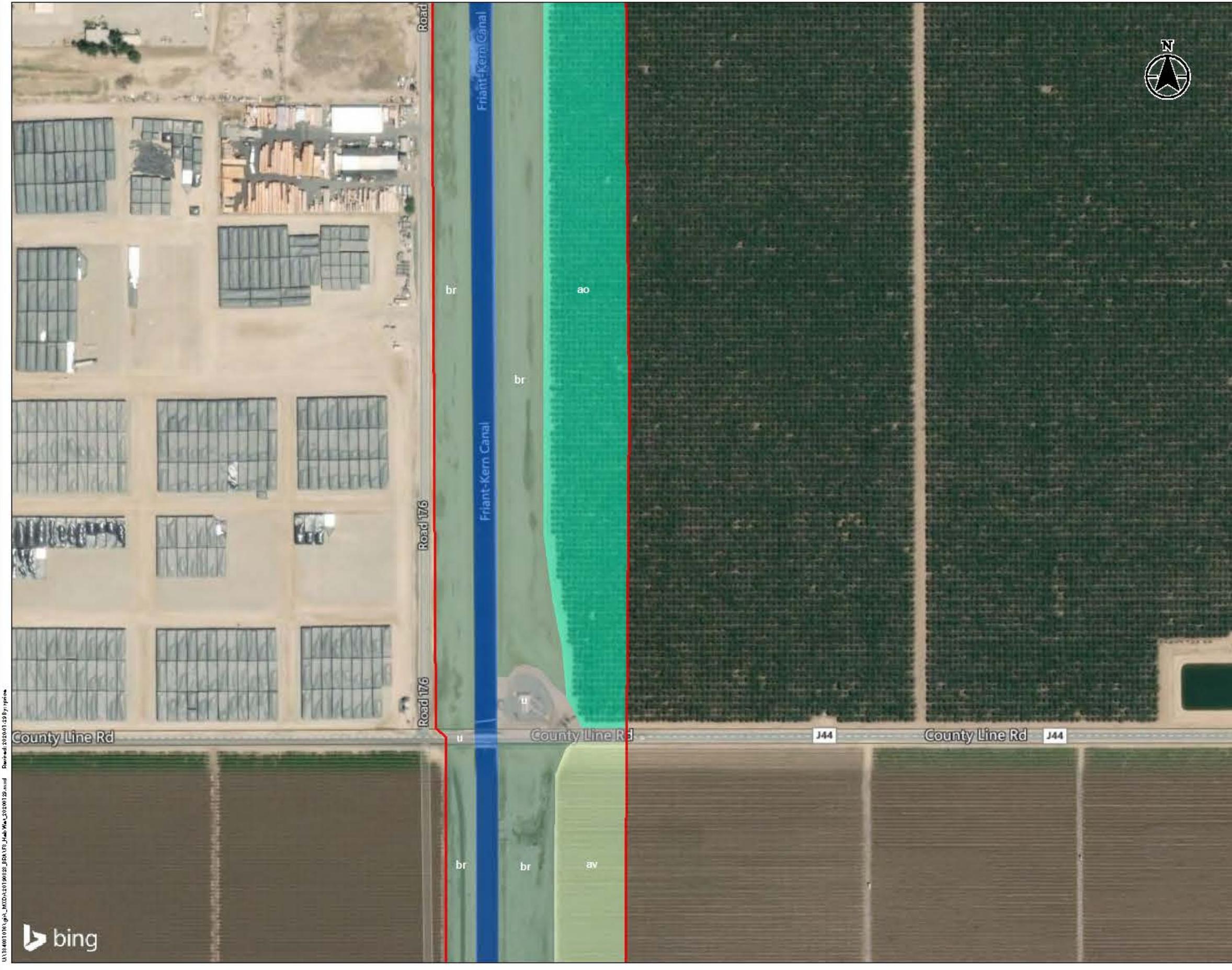


Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthoimagery Bing Maps, 2019

Stantec

Friant
WATER AUTHORITY



Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

Stantec

Friant
WATER AUTHORITY

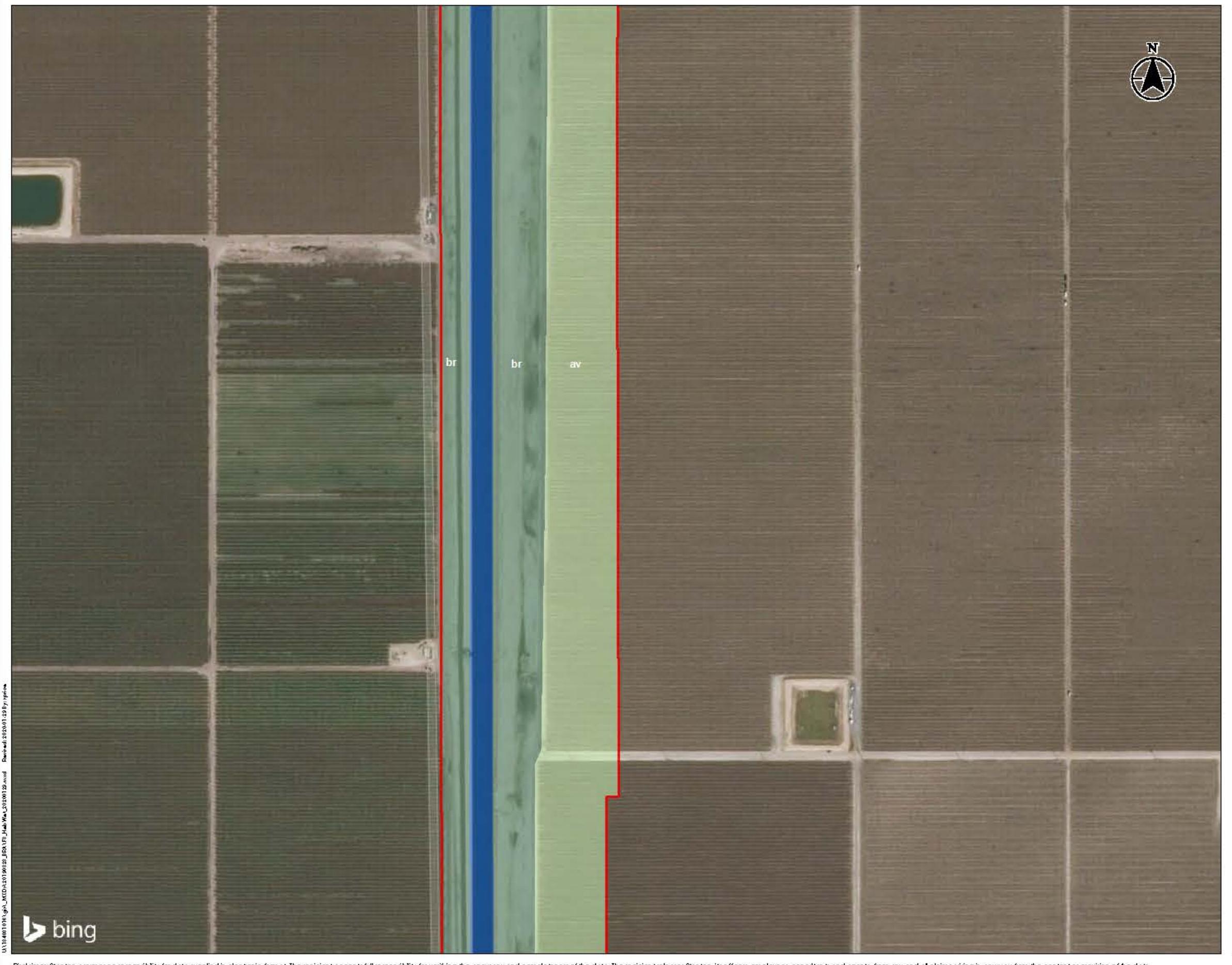


Figure No.

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Object Location 184031016
Madera and Kern Counties, CA Prepared by SCP on 2020-01-29
5' USGS Quadrangles
Porterville, California (1971)
Fresno-Salinas School, California (1971)
Visalia, California (1972)

Prepared by SCP on 2020-01-29

1 inch = 300 feet

0 150 300 600

Feet

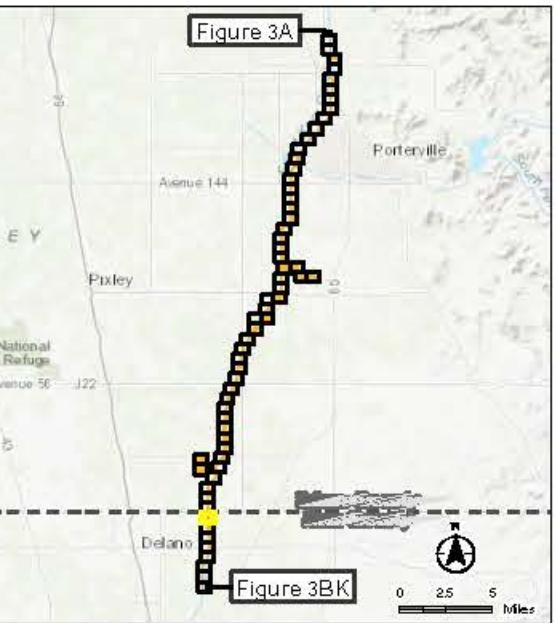
Project Area

Habitat

Agriculture – Vineyard (av)

Barren/Ruderal (br)

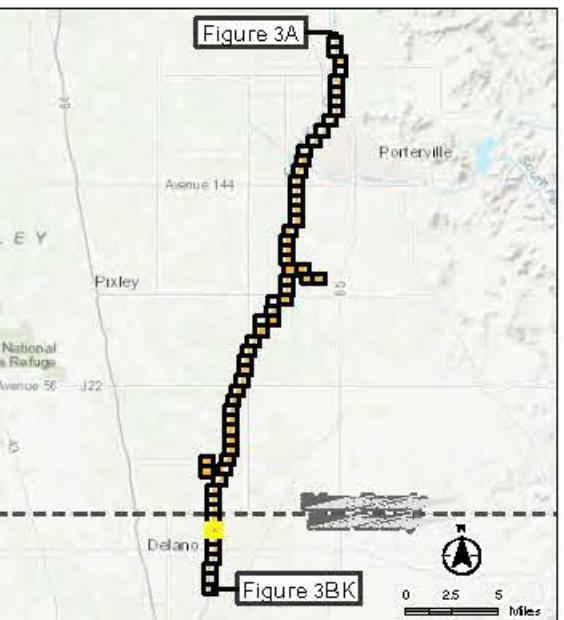
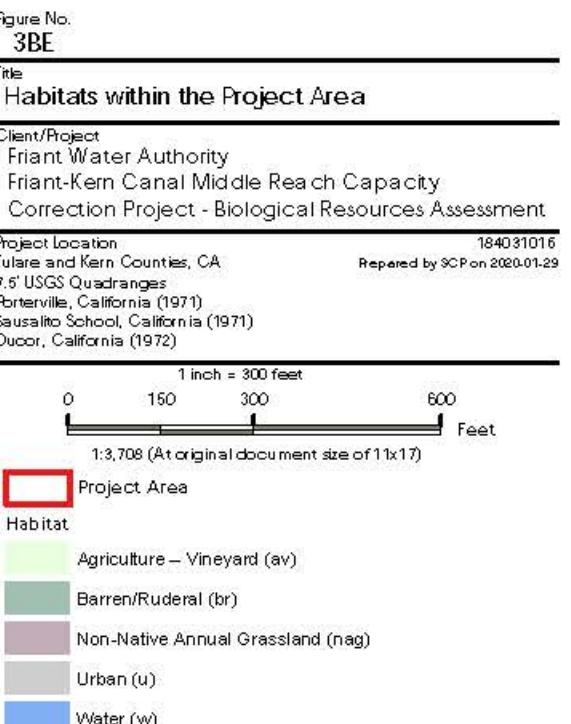
Water (w)



Notes

1. Coordinate System: NAD1993 StatePlane California IV FIPS0404 Feet
 2. Stantec, 2019, Stantec Field Observations
 3. Orthoimagery Bing Maps, 2019





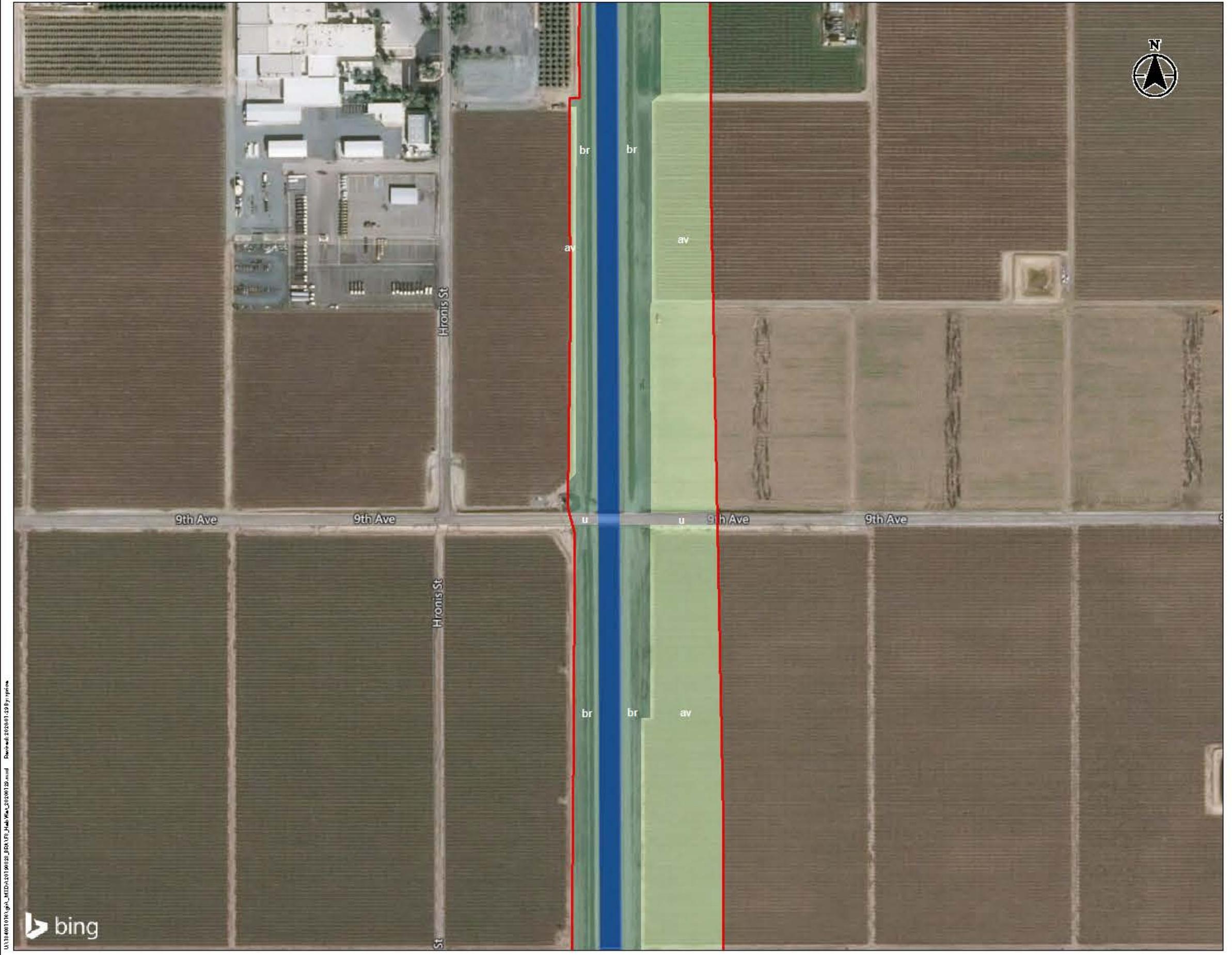


Figure No.
3BF

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

Scale: 1 inch = 300 feet

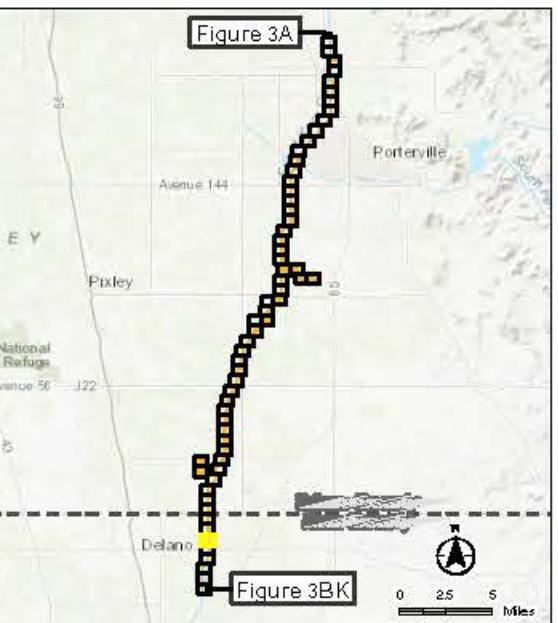
1:3,708 (At original document size of 11x17)

0 150 300 600 Feet

Project Area

Habitat

- Agriculture – Vineyard (av)
- Barren/Ruderal (br)
- Urban (u)
- Water (w)



Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

Stantec

Friant
WATER AUTHORITY

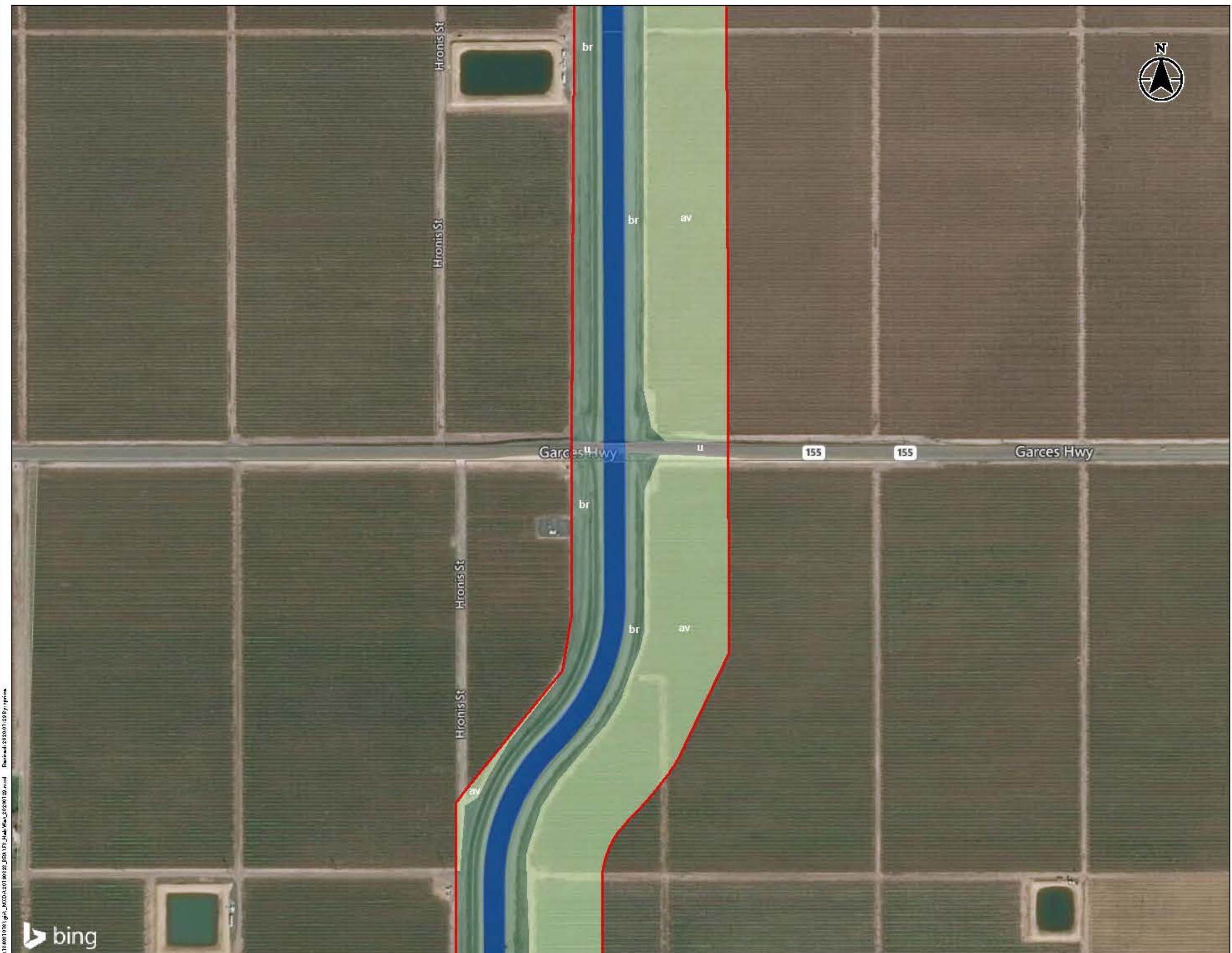


Figure No.
3BG

Title

Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location 184031016
Tulare and Kern Counties, CA Prepared by SCP on 2020-01-29
7.5' USGS Quadrangles
Porterville, California (1971)
Seaside School, California (1971)
Ducor, California (1972)

1 inch = 300 feet

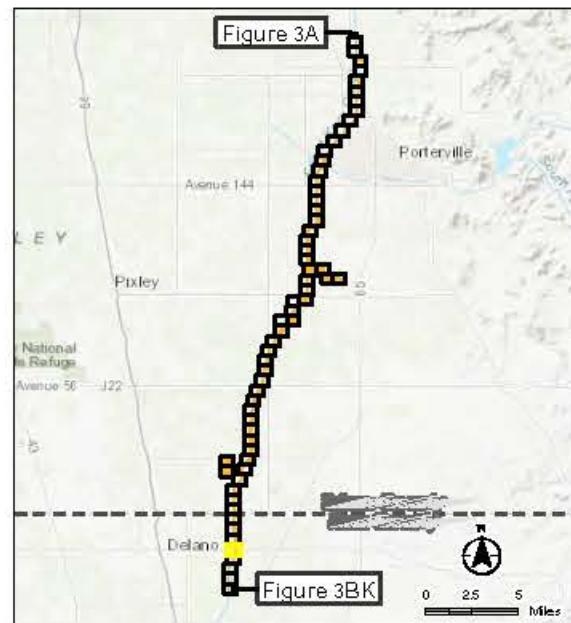
0 150 300 600

Feet

13.7.08 (At long)
 Project Area

Habitat

Agriculture – Vineyard (av)
Barren/Ruderal (br)
Urban (u)
Water (w)



Note

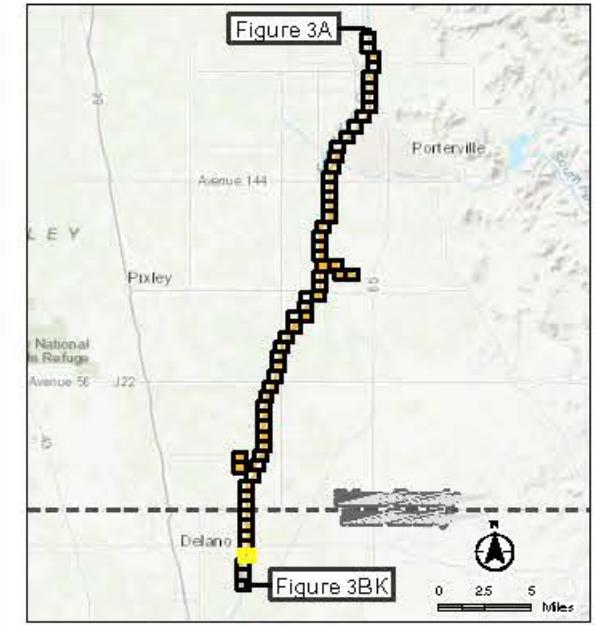
1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthoimagery Bing Maps, 2019

 Stantec

Friant
WATER AUTHORITY



Figure No.
3BH
Title
Habitats within the Project Area
Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment
Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles:
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)
Revised by SCP on 2020-01-29
184031016
Scale
1 inch = 300 feet
0 150 300 600 Feet
1:3,708 (At original document size of 11x17)
Project Area
Habitat
Agriculture – Vineyard (av)
Barren/Ruderal (br)
Non-Native Annual Grassland (nag)
Water (w)



Notes
1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
2. Stantec, 2019, Stantec Field Observations
3. Orthorectified Bing Maps, 2019



Figure No.
3BI

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

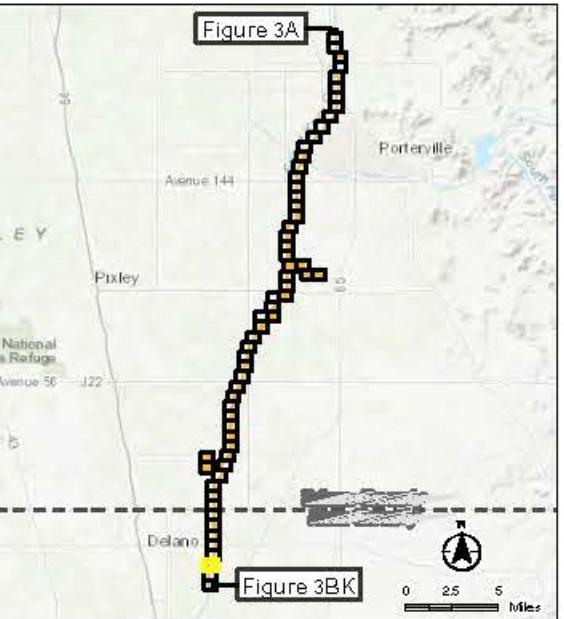
Scale
1 inch = 300 feet
0 150 300 600 Feet

1:3,708 (At original document size of 11x17)

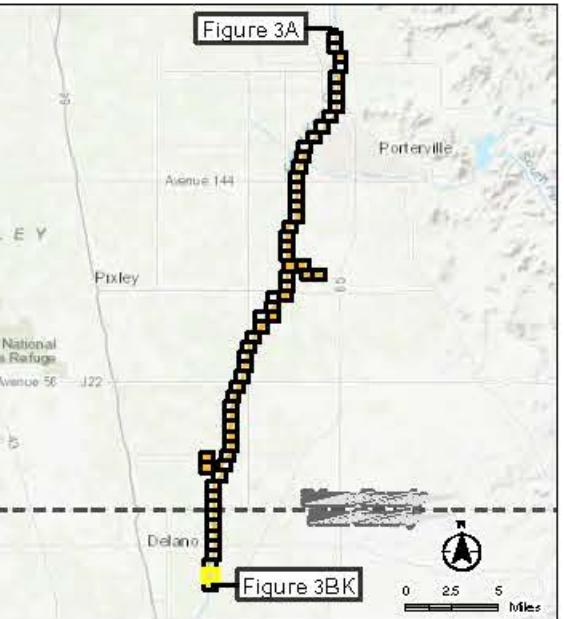
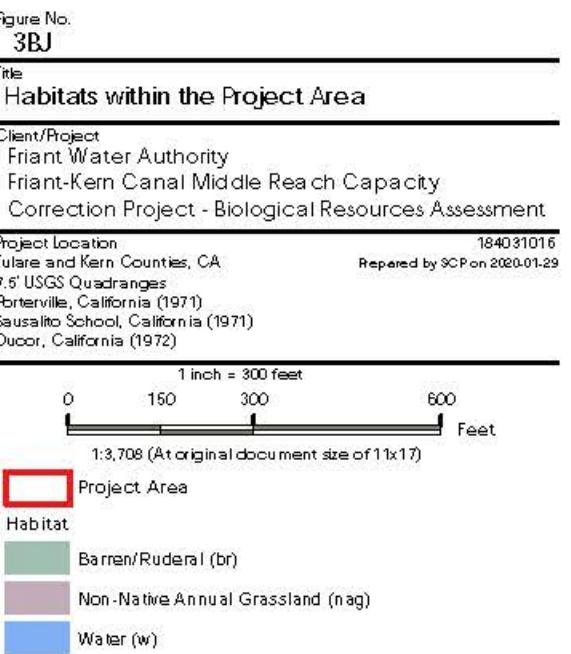
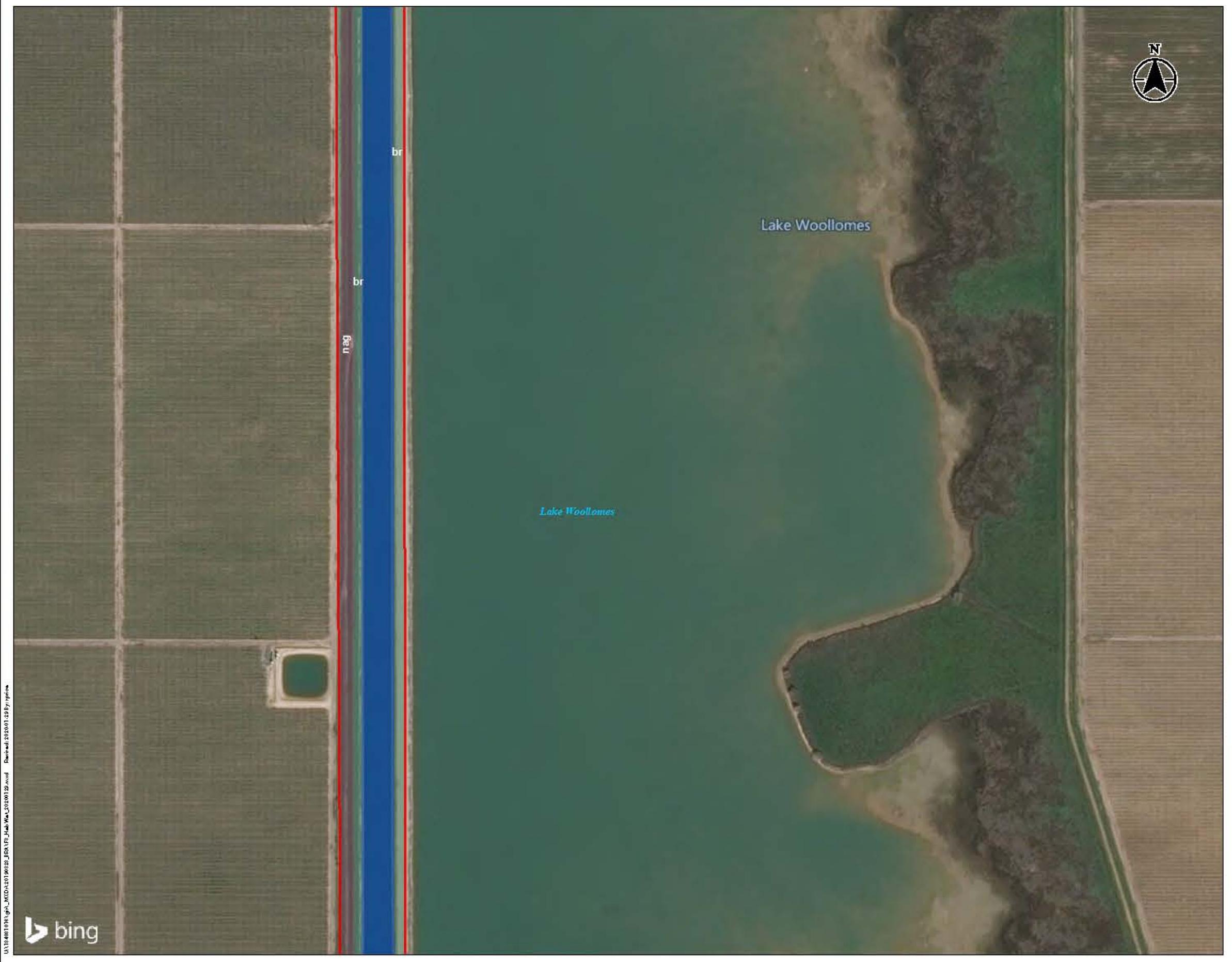
Project Area

Habitat

- Barren/Ruderal (br)
- Non-Native Annual Grassland (nag)
- Urban (u)
- Water (w)



Notes
 1. Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
 2. Stantec, 2019, Stantec Field Observations
 3. Orthorectified Bing Maps, 2019



Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthoimagery Bing Maps, 2019



Figure No.
3BK

Title
Habitats within the Project Area

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity
Correction Project - Biological Resources Assessment

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles:
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Reported by SCP on 2020-01-29

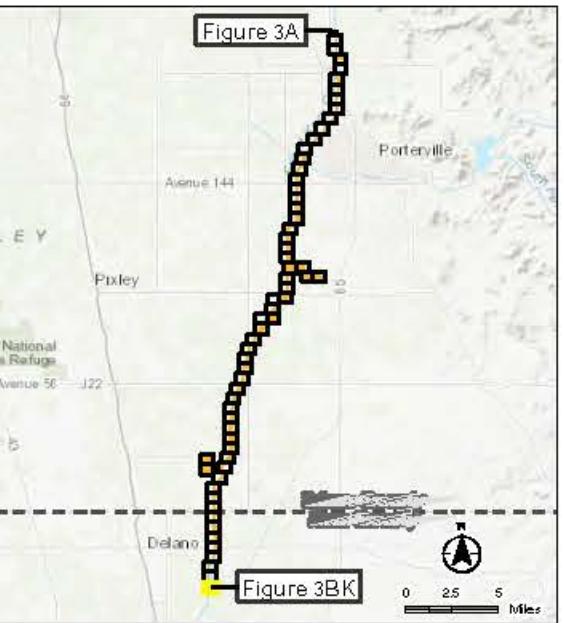
1:3,708 (At original document size of 11x17)

0 150 300 600 Feet

Project Area

Habitat

- Barren/Ruderal (br)
- Non-Native Annual Grassland (nag)
- Water (w)

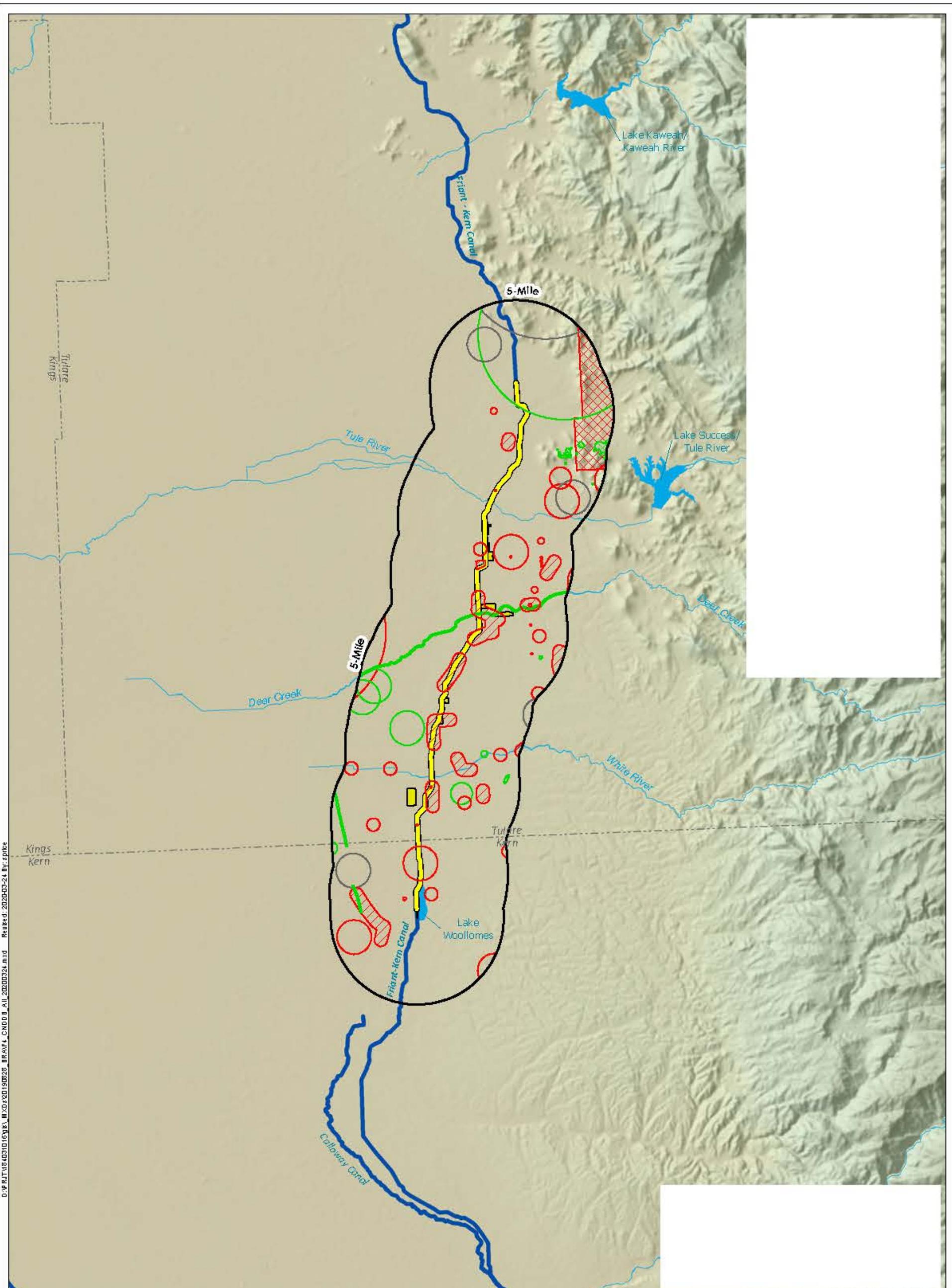


Notes

- Coordinate System: NAD 1983 StatePlane California IV FIPS 0404 Feet
- Stantec, 2019, Stantec Field Observations
- Orthorectified Bing Maps, 2019

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Friant
WATER AUTHORITY



CNDDB version 03/2020. Please Note: The occurrences shown on this map represent the known locations of the species listed here as of the date of this version. There may be additional occurrences or additional species within this area which have not yet been surveyed and/or mapped. Lack of information in the CNDDB about a species or an area can never be used as proof that no special-status species occur in an area.

CNDDB Occurrences Within a 5-Mile Radius	
Project Location	1840031016
Tulare and Kern Counties, CA	Prepared by SGP on 2019-11-18
7.5' USGS Quadrangles	Updated by SGP on 2020-03-24
Porterville, California (1971)	
Sausalito School, California (1971)	
Ducor, California (1972)	
Client/Project	
Friant Water Authority	
Friant-Kern Canal Middle Reach Capacity Correction	
Project - Biological Resources Assessment	
Notes:	1. Coordinate System: NAD 1983 UTM Zone 10 H 2. Stantec, 2020; CDFW CNDDB March 2020

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0 1.5 3 6 Miles
1:350,000 (At Original document size of 11 x 17)

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Friant
WATER AUTHORITY

Layer	Subset	Area (acre)		
		Tulare - Permanent	Kern - Permanent	Permanent Impacts
Project Area	N/A	698.85	46.67	745.52
Habitat	N/A	698.85	46.67	745.52
	Agriculture - Fallow (af)	39.54	0.00	39.54
	Agriculture - Field Crop (afc)	27.91	0.00	27.91
	Agriculture - Orchard (ao)	247.36	0.00	247.36
	Agriculture - Vineyard (av)	113.11	0.01	113.12
	Allscale Scrub (as)	1.39	0.00	1.39
	Barren/Ruderal (br)	0.00	0.00	0.00
	California Buckwheat Scrub (cbs)	4.03	0.00	4.03
	Fremont Cottonwood Forest (fcf)	0.95	0.00	0.95
	Mulefat Thickets (mt)	1.02	0.00	1.02
	Non-Native Annual Grassland (nag)	0.00	0.00	0.00
	Red Willow Thickets (rwt)	0.00	0.00	0.00
	Shining Willow Groves (swg)	0.00	0.00	0.00
	Smartweed - Cocklebur Patches (scp)	3.89	0.00	3.89
	Urban (u)	6.50	0.49	6.99
	Valley Oak Woodland (vow)	0.00	0.00	0.00
	Water (w)	253.15	46.17	299.32

Layer	Subset	Area (acre)		
		Tulare - Temporary	Kern - Temporary	Temporary Impacts
Project Area	N/A	1,360.45	90.87	1,451.32
Habitat	N/A	1,360.45	90.87	1,451.32
	Agriculture - Fallow (af)	301.17	0.00	301.17
	Agriculture - Field Crop (afc)	158.48	0.00	158.48
	Agriculture - Orchard (ao)	180.67	0.00	180.67
	Agriculture - Vineyard (av)	33.82	7.97	41.79
	Allscale Scrub (as)	0.00	0.00	0.00
	Barren/Ruderal (br)	434.79	71.43	506.22
	California Buckwheat Scrub (cbs)	4.93	0.00	4.93
	Fremont Cottonwood Forest (fcf)	0.87	0.00	0.87
	Mulefat Thickets (mt)	0.47	0.00	0.47
	Non-Native Annual Grassland (nag)	211.34	10.48	221.82
	Red Willow Thickets (rwt)	0.00	0.00	0.00
	Shining Willow Groves (swg)	0.00	0.00	0.00
	Smartweed - Cocklebur Patches (scp)	1.14	0.00	1.14
	Urban (u)	30.10	0.99	31.09
	Valley Oak Woodland (vow)	0.00	0.00	0.00
	Water (w)	2.67	0.00	2.67

Layer	Subset	Area (acre)		
		Total Area	Tulare	Kern
Project Area	N/A	2,695.67	2,493.75	201.92
Habitat	N/A	2,695.67	2,493.75	201.92
	Agriculture - Fallow (af)	341.44	341.44	0.00
	Agriculture - Field Crop (afc)	187.47	187.47	0.00
	Agriculture - Orchard (ao)	455.02	455.02	0.00
	Agriculture - Vineyard (av)	256.89	191.33	65.56
	Allscale Scrub (as)	1.39	1.39	0.00
	Barren/Ruderal (br)	829.56	757.59	71.97
	California Buckwheat Scrub (cbs)	8.96	8.96	0.00
	Fremont Cottonwood Forest (fcf)	1.82	1.82	0.00
	Mulefat Thickets (mt)	1.49	1.49	0.00
	Non-Native Annual Grassland (nag)	230.30	216.78	13.52
	Red Willow Thickets (rwt)	0.13	0.13	0.00
	Shining Willow Groves (swg)	0.57	0.57	0.00
	Smartweed - Cocklebur Patches (scp)	5.03	5.03	0.00
	Urban (u)	61.00	56.30	4.70
	Valley Oak Woodland (vow)	1.07	1.07	0.00
	Water (w)	313.53	267.36	46.17

FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

Impacts Table - Accompany Mapbook

Figure No.
5: Impacts Date:
Mar 24, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
184031016
Prepared by SCP
[7.5' USGS Quadrangles]
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)



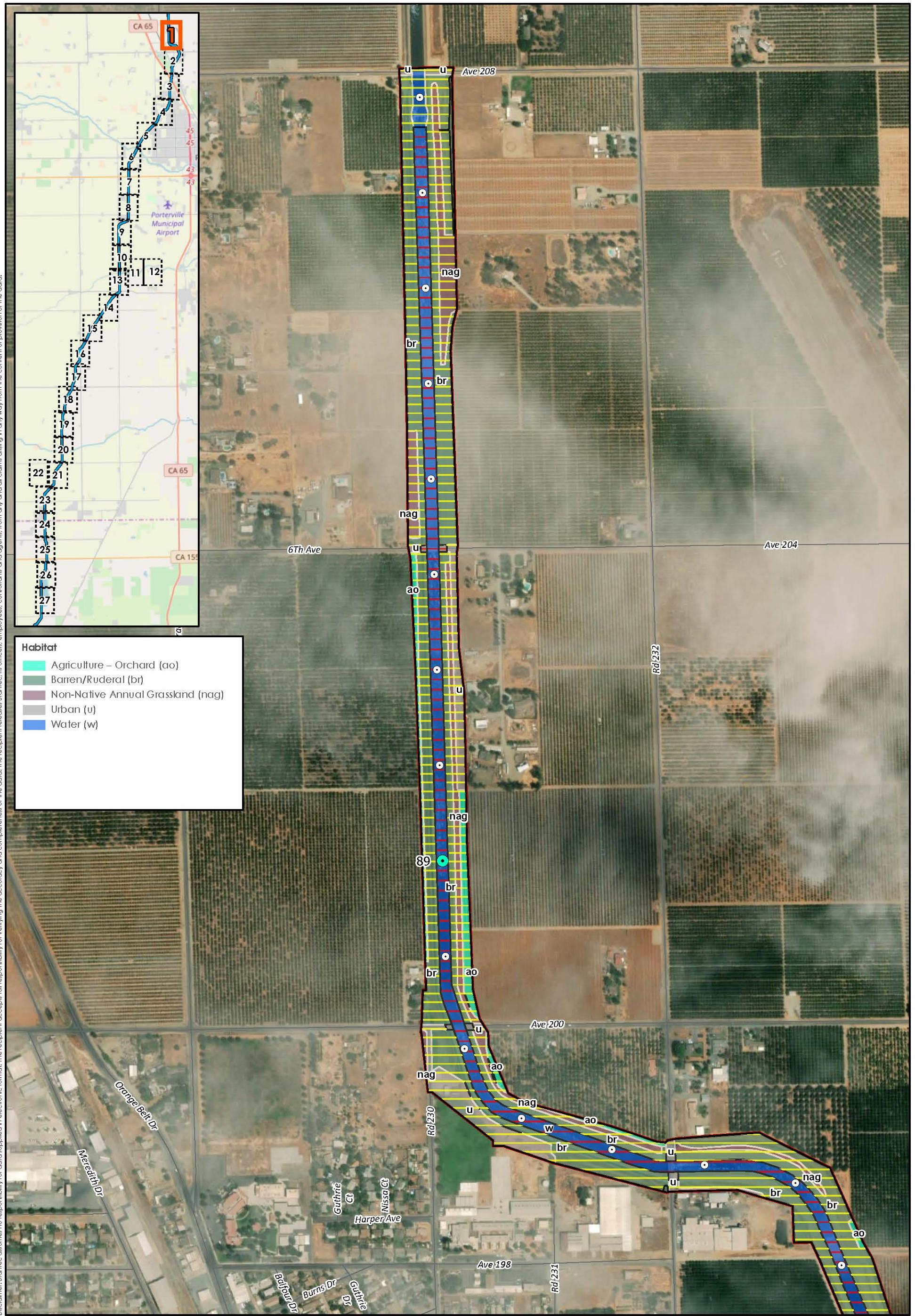
Stantec



Client/Project

Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|---|---|
| ■ Project Area | — Proposed Canal Re-alignment Centerline |
| ■ Potential Impacts | ● Mile Post |
| ■ No Impact | ○ Tenth-of-Mile |
| ■ Permanent | |
| — Temporary | |

Service Layer Credits: World Imagery. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
OpenStreetMap: © OpenStreetMap (and) contributors, CC-BY-SA; NAIP 2016

Figure No.
5A Date:
Mar 04, 2020

Title:
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)



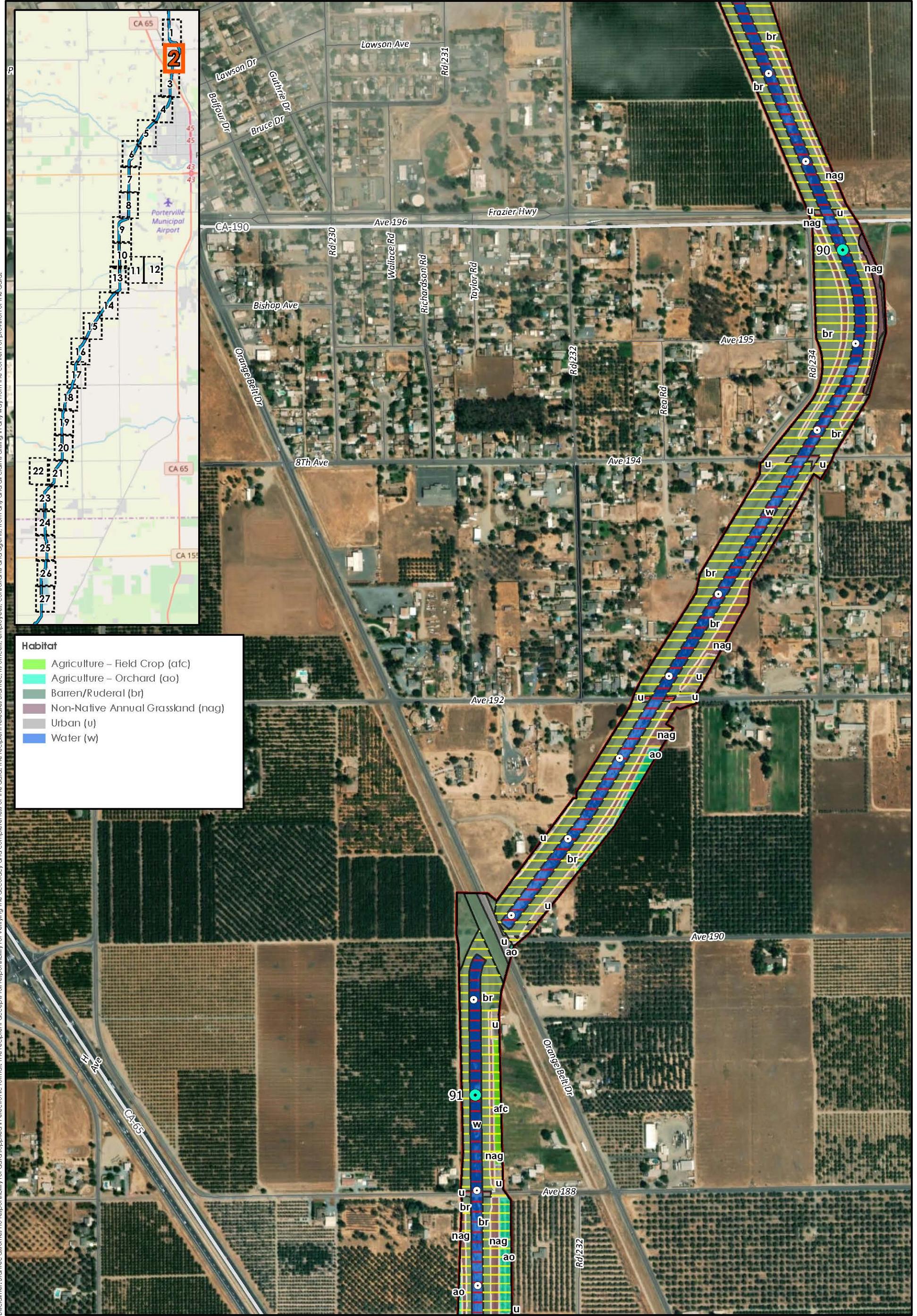
0 500 1,000
Feet
1:6,000 (At original document size of 11x17)

Client/Project

Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

U:\1840310\16\gis\MXDs\Habitat_Impacts.aprx Revised: 2020-03-04 By: sprice

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|---|---|
| ■ Project Area | — Proposed Canal Re-alignment Centerline |
| ● Potential Impacts | ● Mile Post |
| ■ No Impact | ○ Tenth-of-Mile |
| ■ Permanent | |
| — Temporary | |

Figure No. 5B Date: Mar 04, 2020

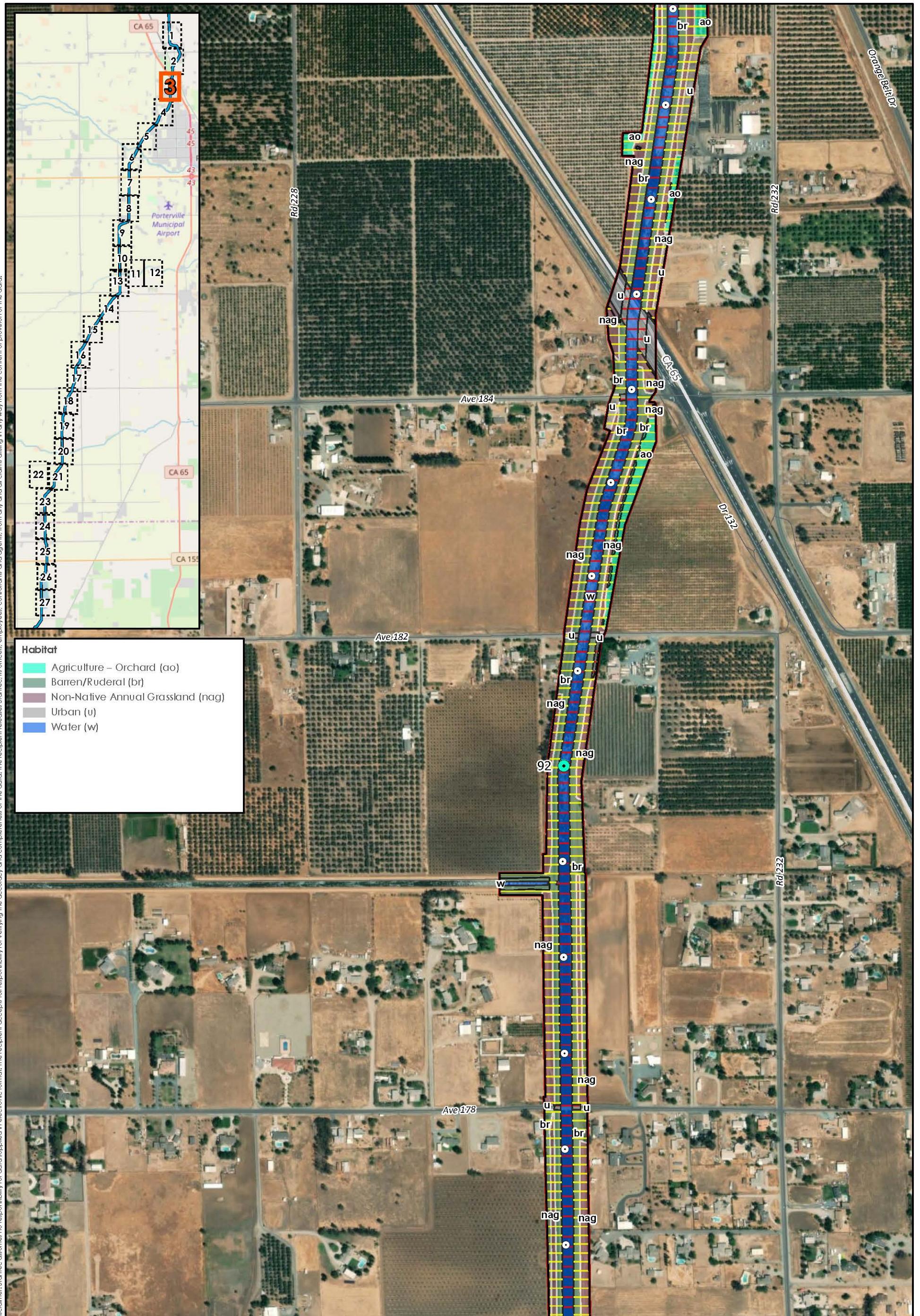
Title: Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)



Scale: 1:6,000 (At original document size of 11x17)
Client/Project: Friant Water Authority, Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- Project Area — Proposed Canal Re-alignment Centerline
- Potential Impacts ● Mile Post — Tenth-of-Mile
- No Impact ■ Permanent — Temporary

Figure No.

5C

Date:

Mar 04, 2020

Title

Impacts by Habitat

Project Location

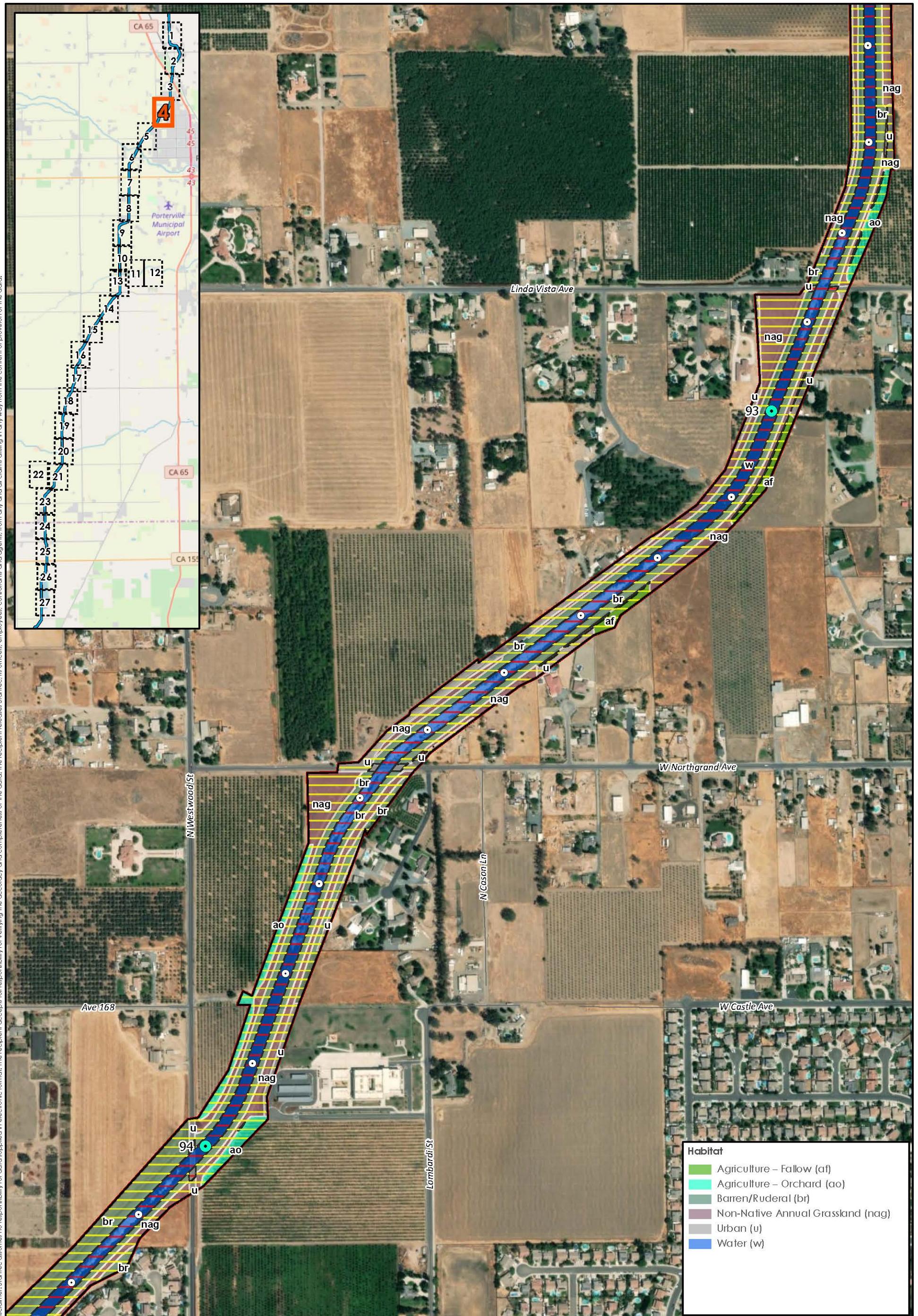
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP
(2020-03-04)



Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Service Layer Credits: World Imagery. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
OpenStreetMap: © OpenStreetMap (and) contributors, CC-BY-SA; NAIP 2016

Figure No. 5D Date: Mar 04, 2020

Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)
184031016



Client/Project: Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

U:\184031016\gis_MXD\gis_Habitat_Impacts.aprx Revised: 2020-03-04 By: sprice

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

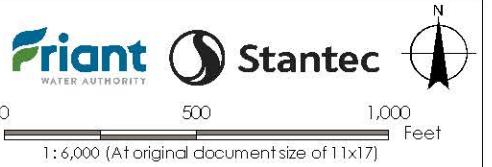
- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No.
5E Date:
Mar 04, 2020

Impacts by Habitat

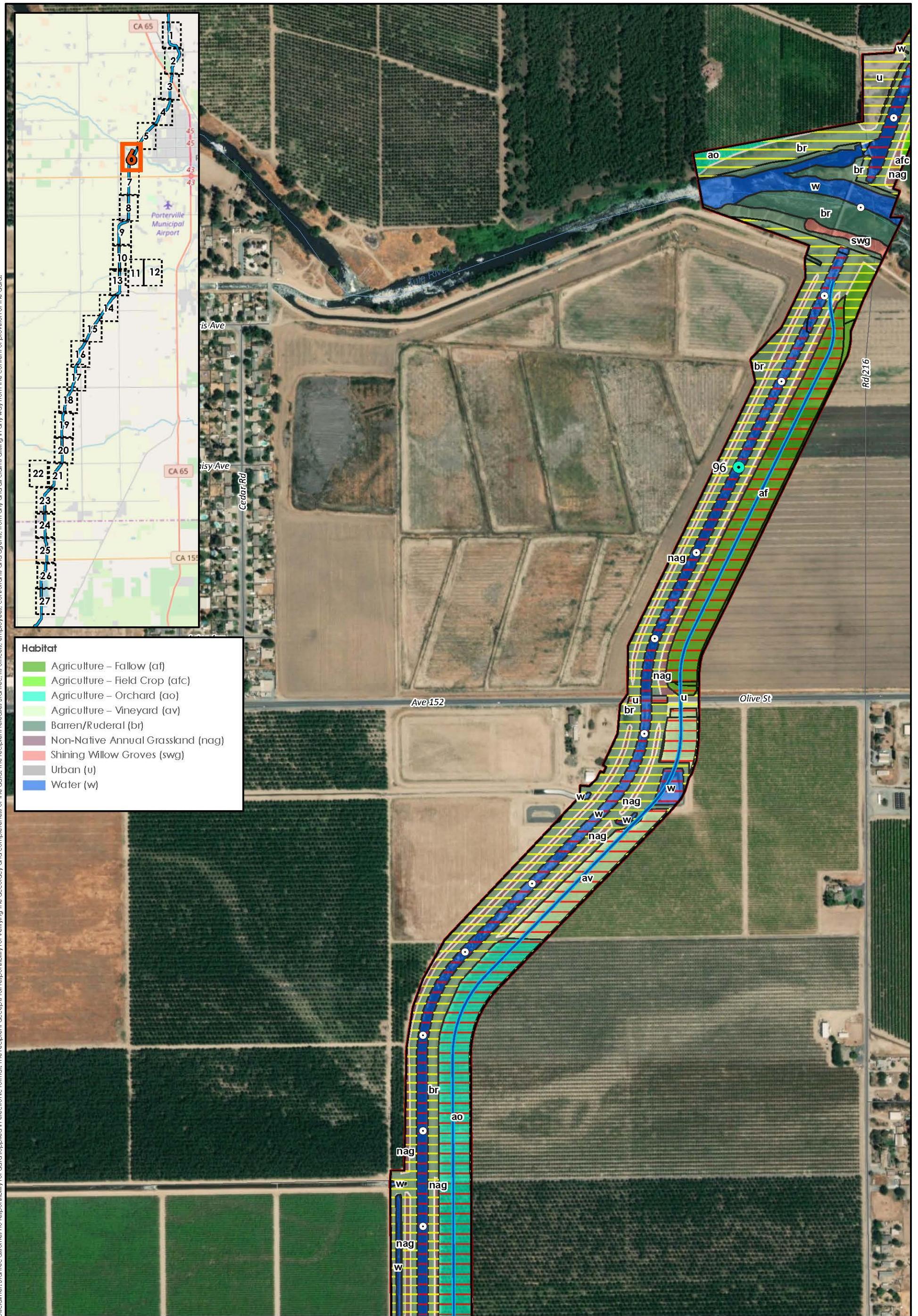
Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)



Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Service Layer Credits: World Imagery. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
OpenStreetMap: © OpenStreetMap (and) contributors, CC-BY-SA; NAIP 2016

Figure No.
5F Date:
Mar 04, 2020

Title **Impacts by Habitat**

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

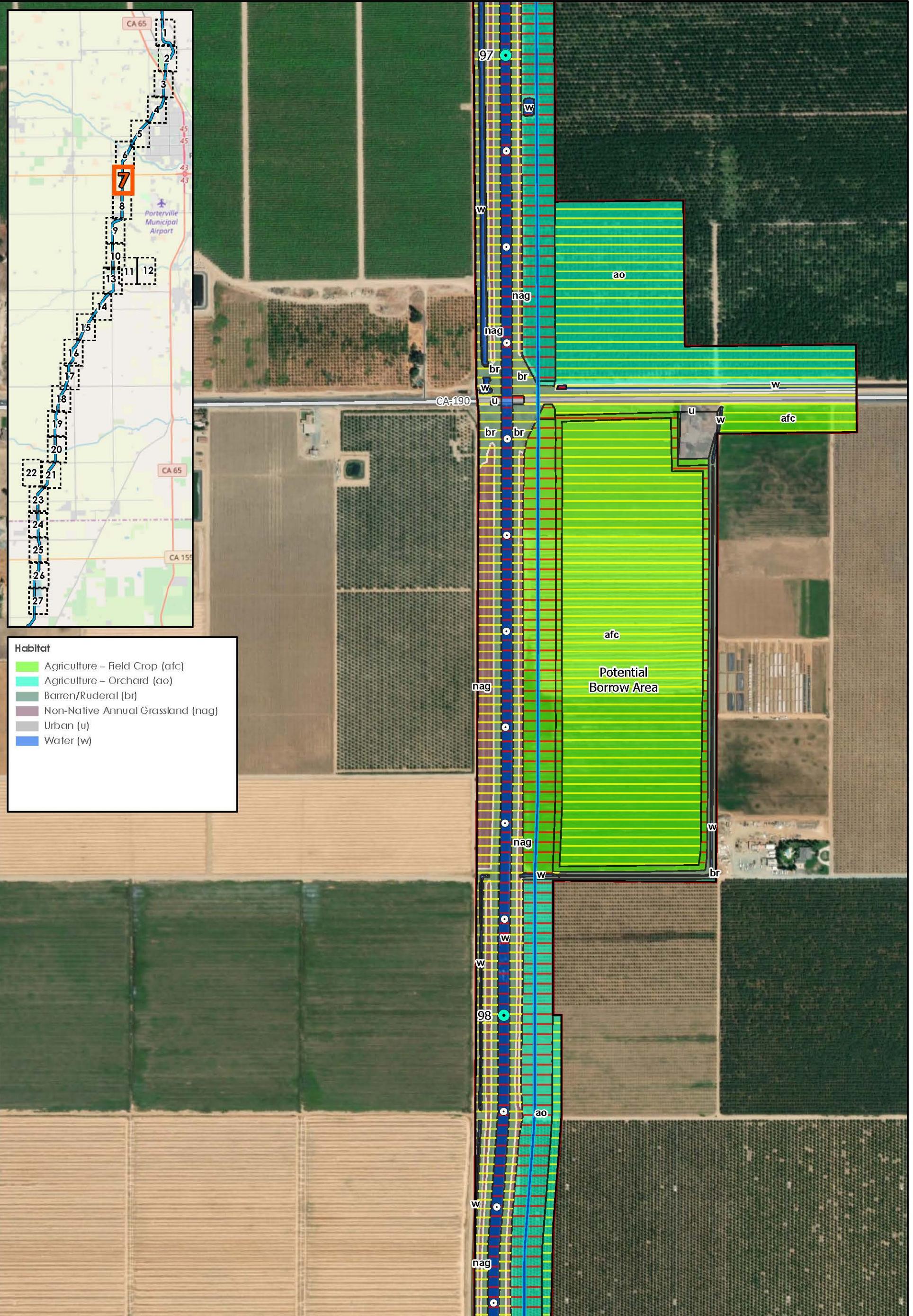
Prepared by SCP
(2020-03-04)



Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

U:\1840310\16\gis_MXD\Habitat_Impacts.aprx Revised: 2020-03-04 By: sprice

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No. 5G Date: Mar 04, 2020

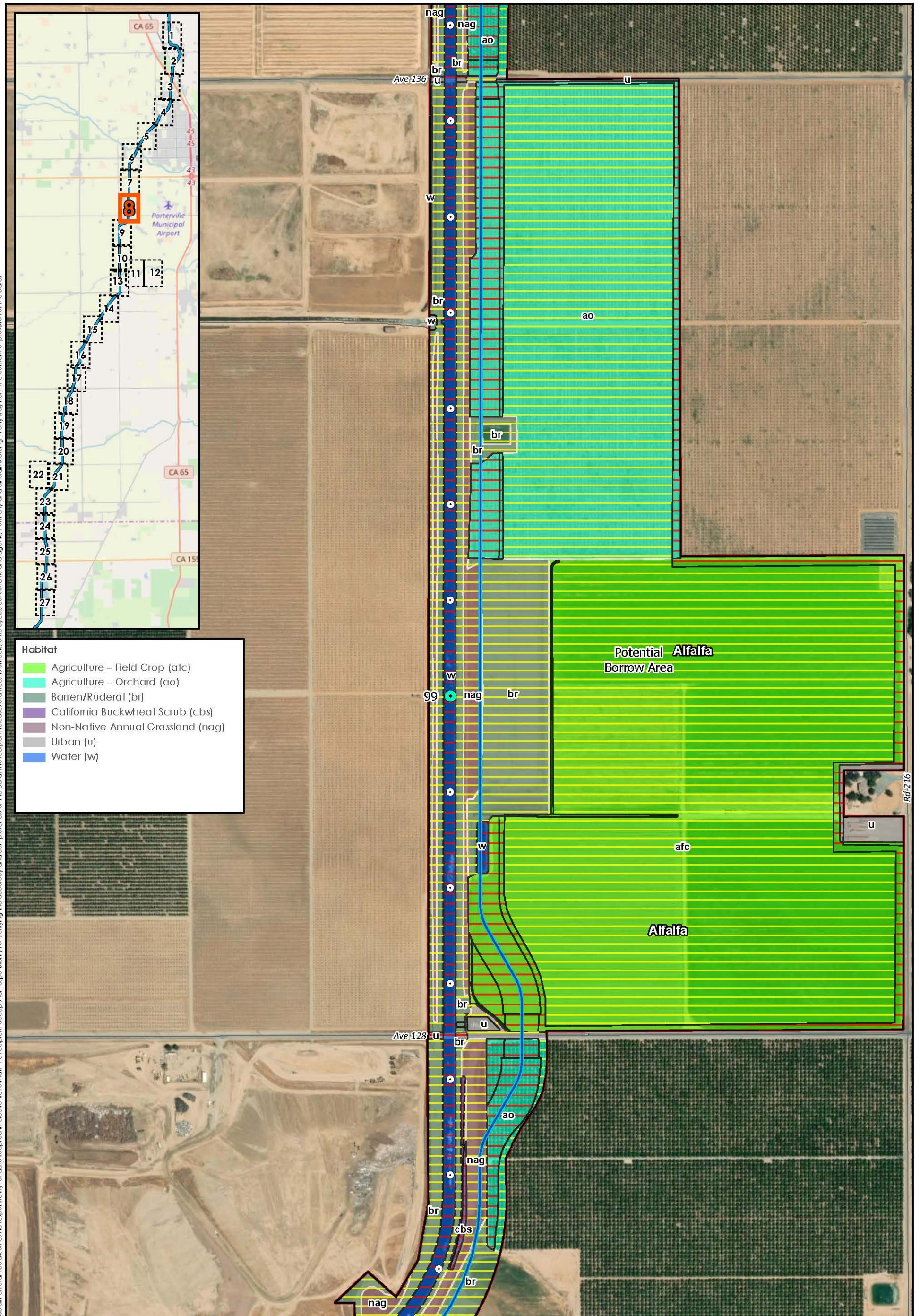
Title: Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)



Client/Project: Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No.
5H
Date:
Mar 04, 2020

Title:
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

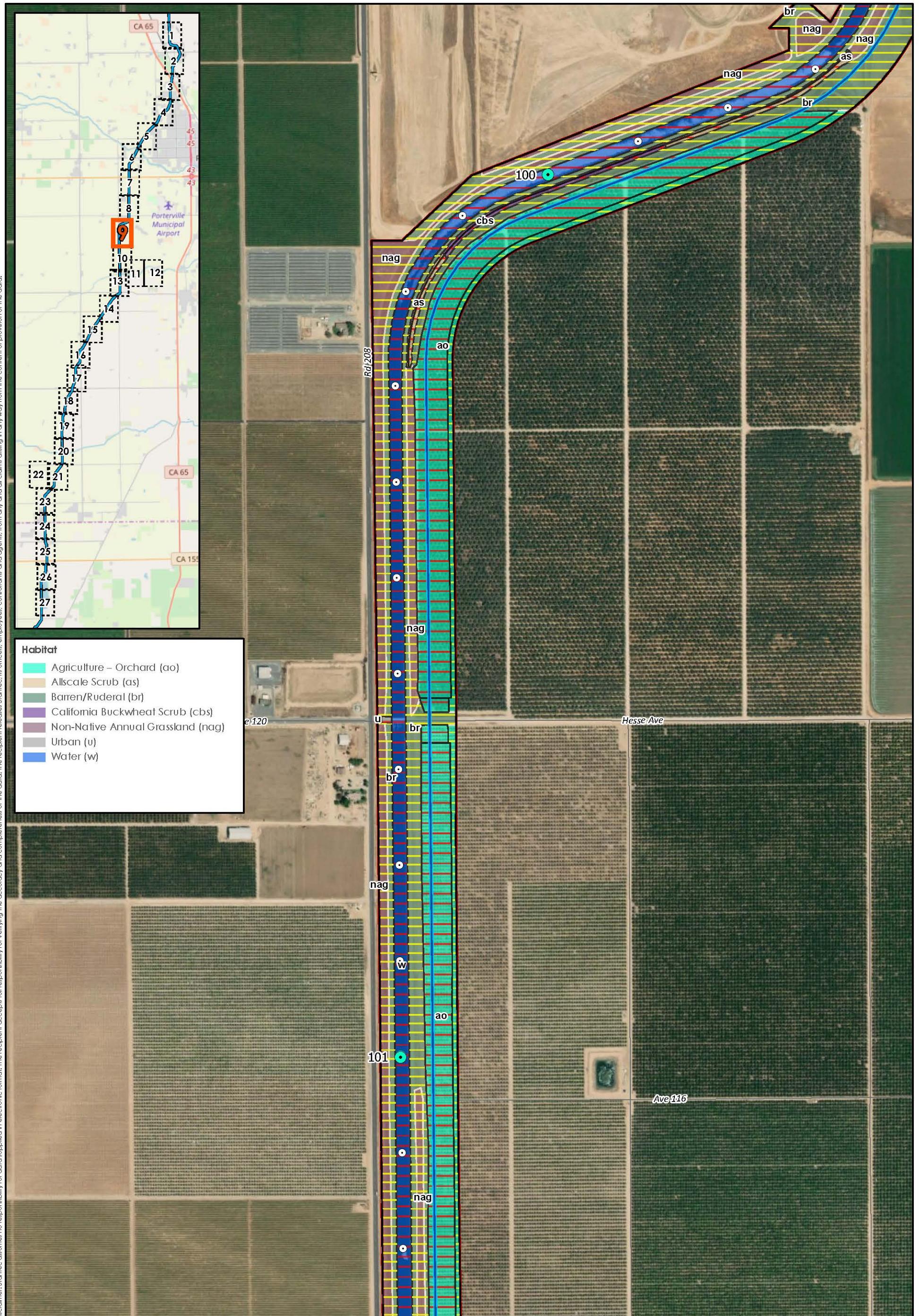
Prepared by SCP
(2020-03-04)



0 500 1,000
1:6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Service Layer Credits: World Imagery. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
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Figure No.

51

Date:

Mar 04, 2020

Title

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

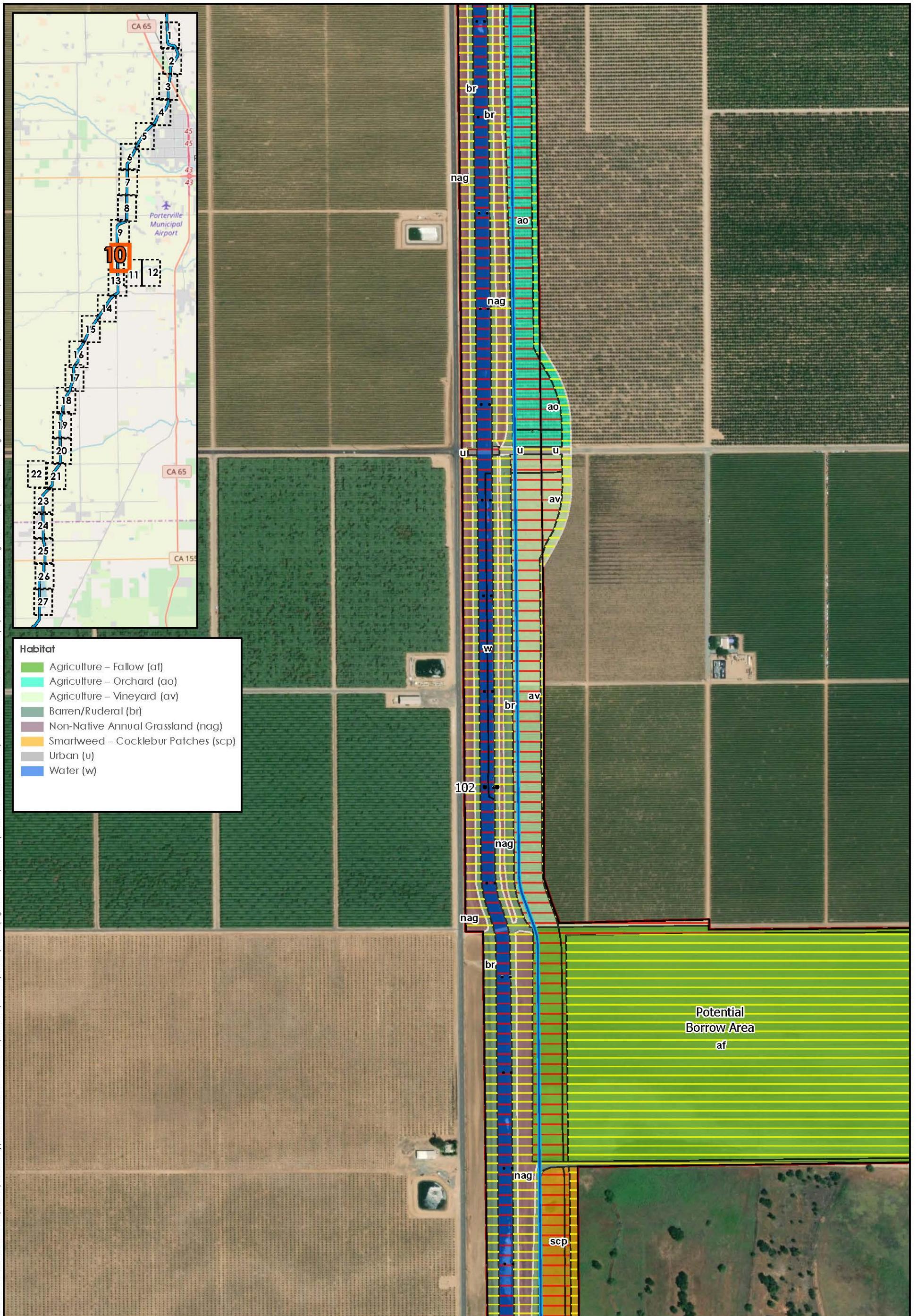
Prepared by SCP
(2020-03-04)



Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

U:\1840310\16\gis\MXD\Habitat_Impacts.aprx Revised: 2020-03-04 By: sprice

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | <ul style="list-style-type: none"> Mile Post Tenth-of-Mile |
| No Impact | |
| Permanent | |
| Temporary | |

Figure No.
5J Date:
Mar 18, 2020

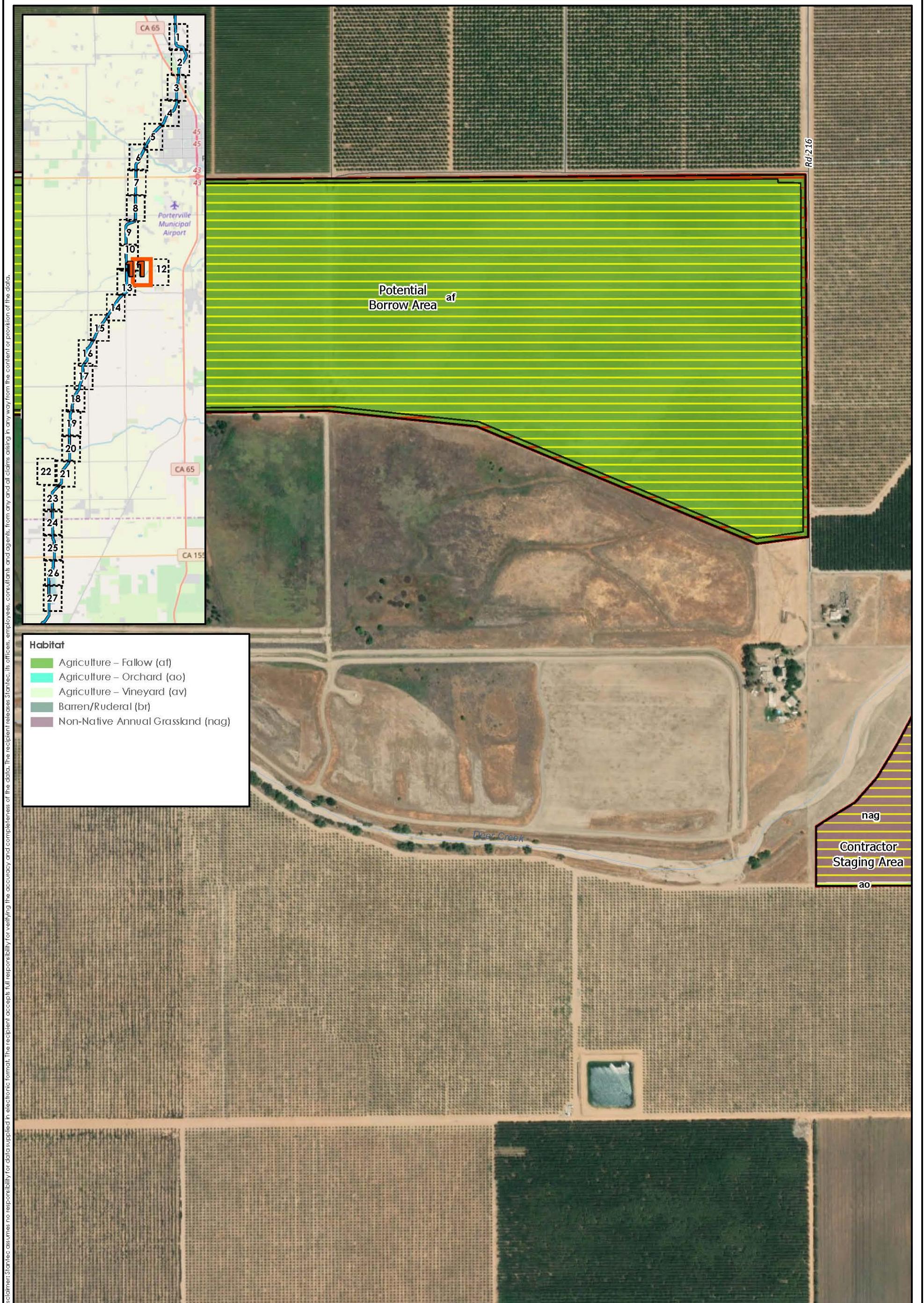
Title:
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)

0 500 1,000
1:6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project





FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

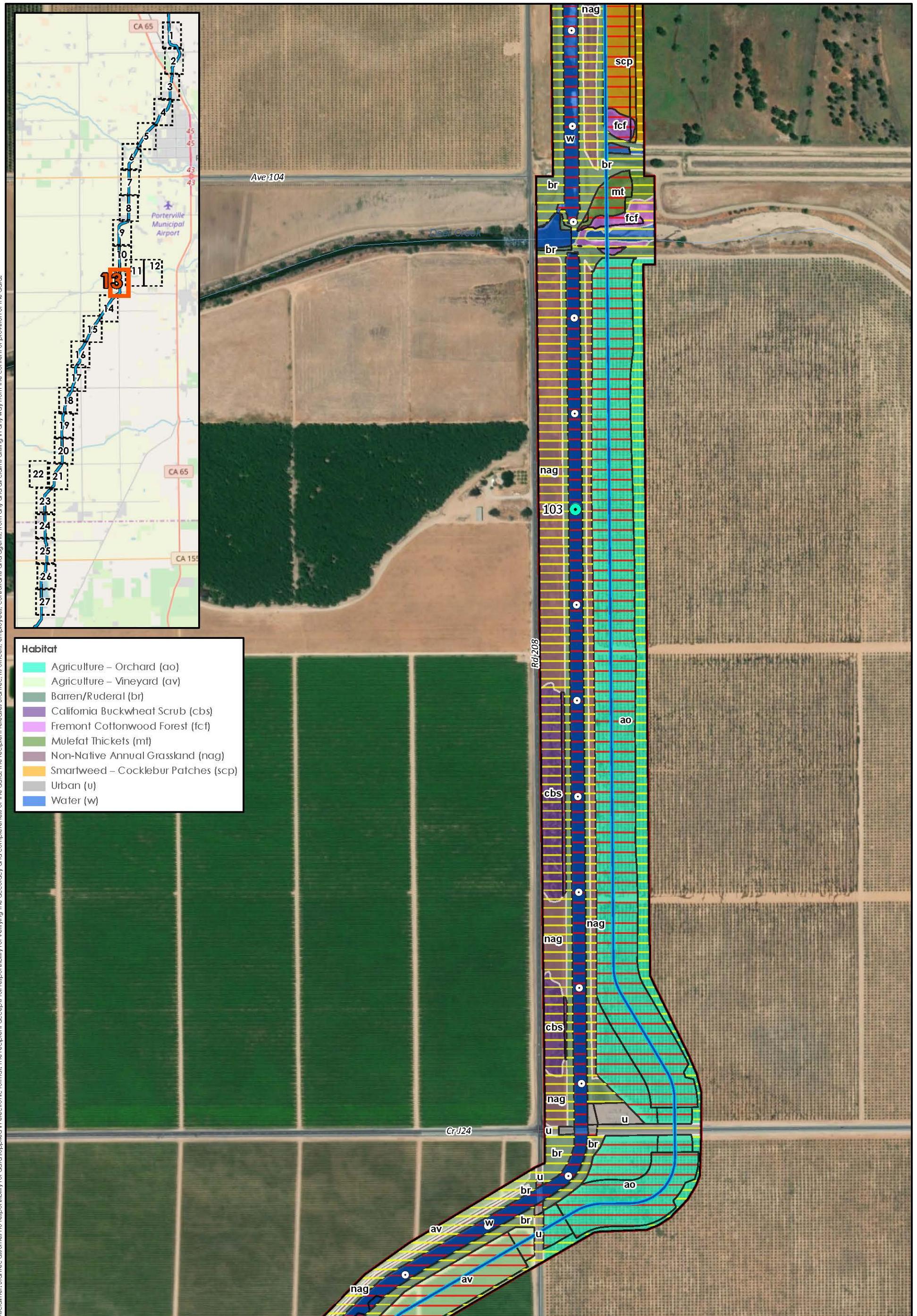
- | | |
|--------------------------|---|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Service Layer Credits: World Imagery. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

Figure No. 5M Date: Mar 04, 2020

Title: Impacts by Habitat
Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)
Prepared by SCP (2020-03-04)



Client/Project: Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- Project Area — Proposed Canal Re-alignment Centerline
- Potential Impacts — Mile Post
- No Impact ○ Tenth-of-Mile
- Permanent — Temporary

Figure No. 5N Date: Mar 04, 2020

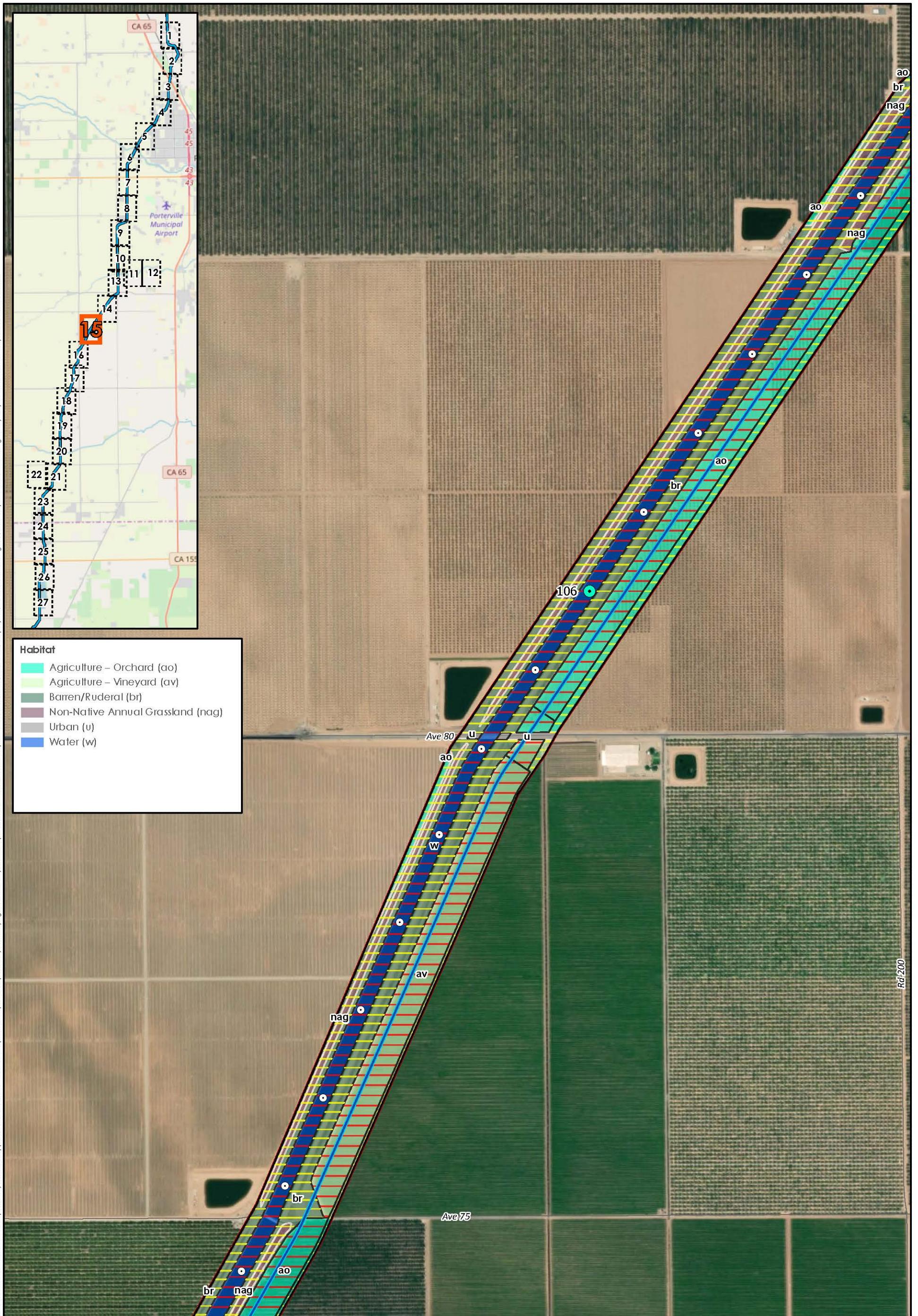
Title: Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)



Client/Project: Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|---|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| ● Potential Impacts | Mile Post |
| No Impact | ○ Tenth-of-Mile |
| Permanent | |
| Temporary | |

Service Layer Credits: World Imagery. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
OpenStreetMap: © OpenStreetMap (and) contributors, CC-BY-SA; NAIP 2016

Figure No.

50

Date:
Mar 04, 2020

Title:

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)



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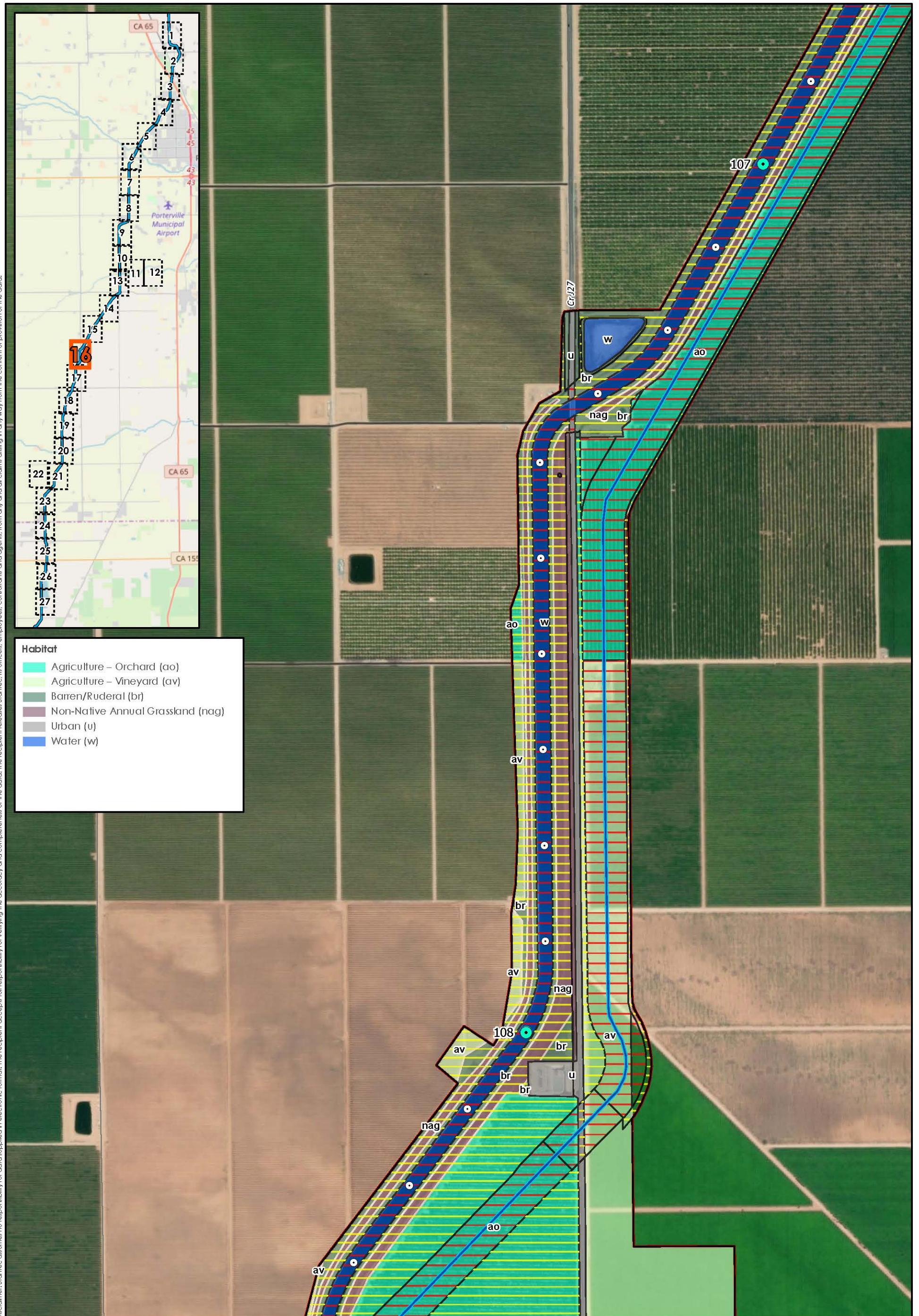
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1:6,000 (At original document size of 11x17)

Client/Project

Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No.
5P Date:
Mar 04, 2020

Impacts by Habitat

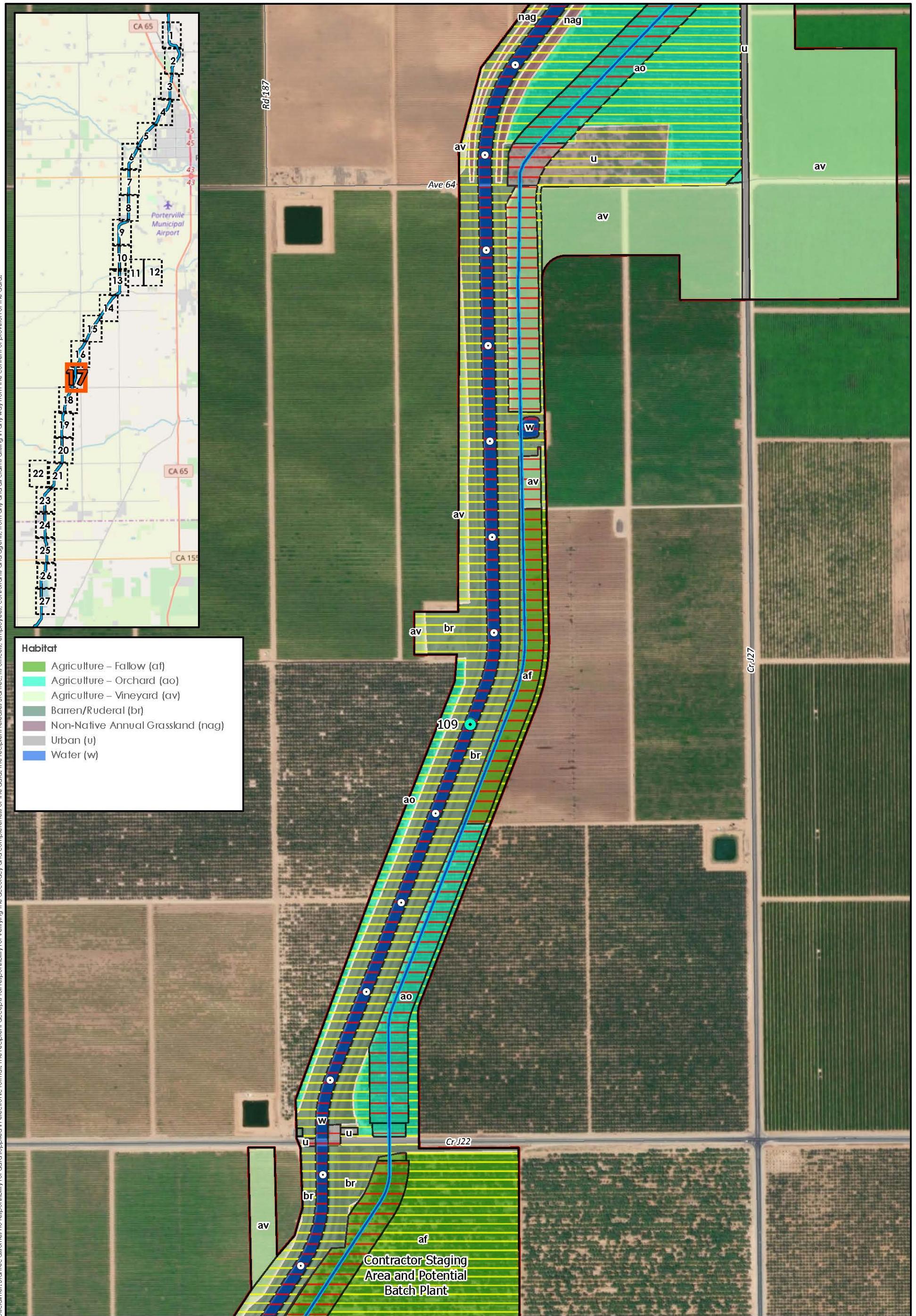
Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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(2020-03-04)



Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No. 5Q Date: Mar 04, 2020

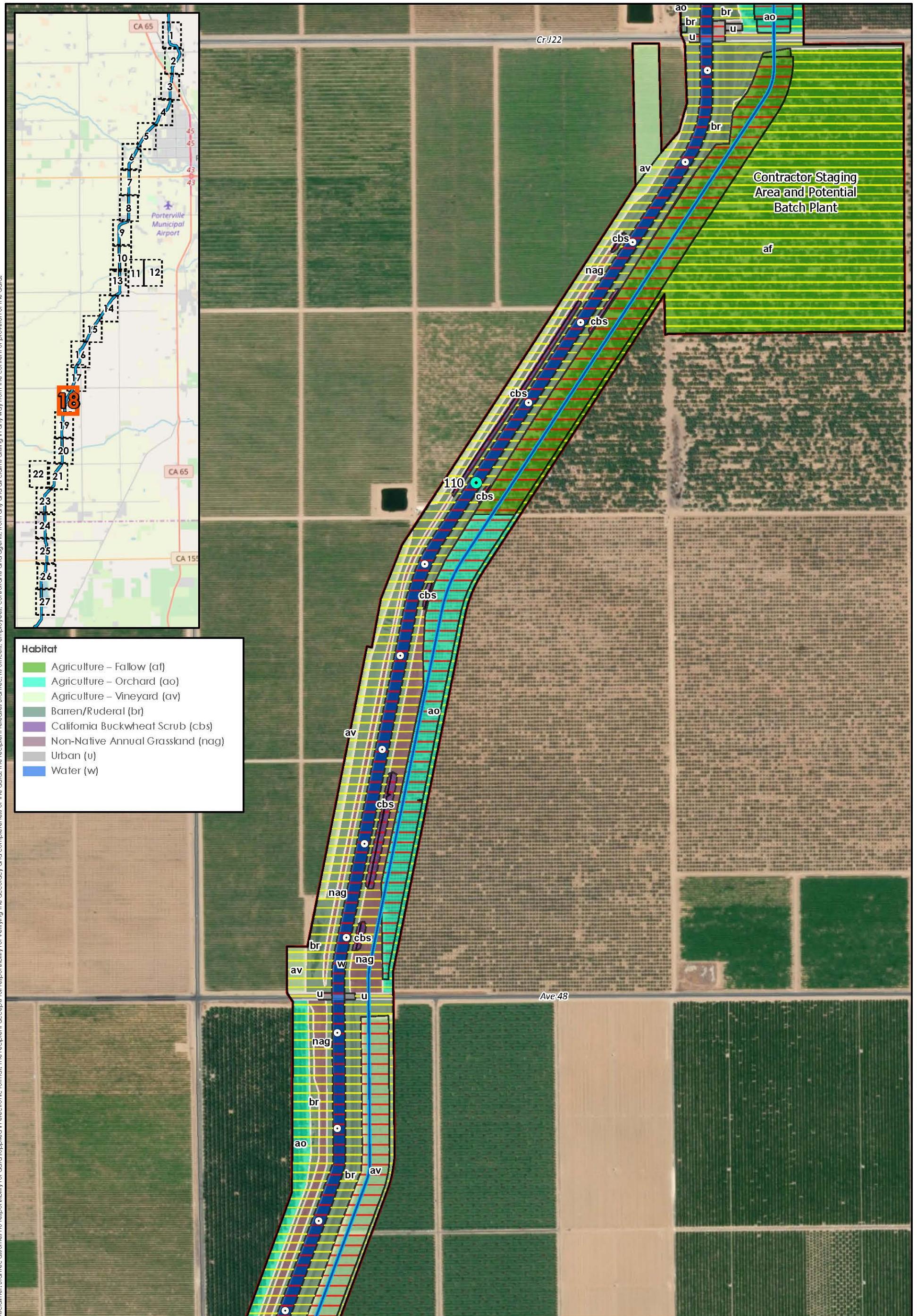
Title: Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)



Client/Project: Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No. 5R Date: Mar 04, 2020

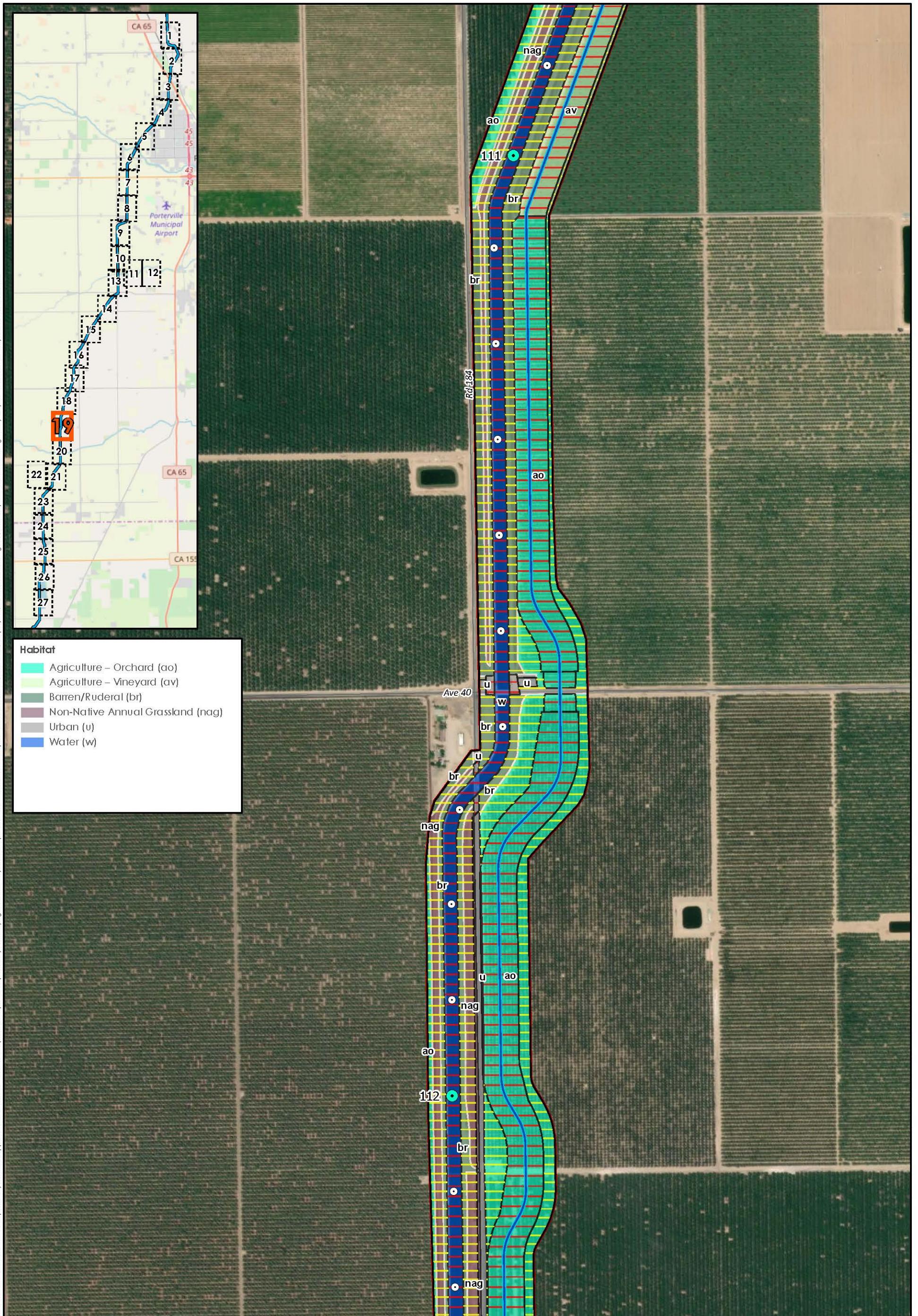
Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)



Client/Project: Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|---|--|
| ■ Project Area | — Proposed Canal Re-alignment Centerline |
| ■ Potential Impacts | ● Mile Post |
| ■ No Impact | ○ Tenth-of-Mile |
| ■ Permanent | |
| — Temporary | |

Figure No.
5S Date:
Mar 04, 2020

Title:
Impacts by Habitat

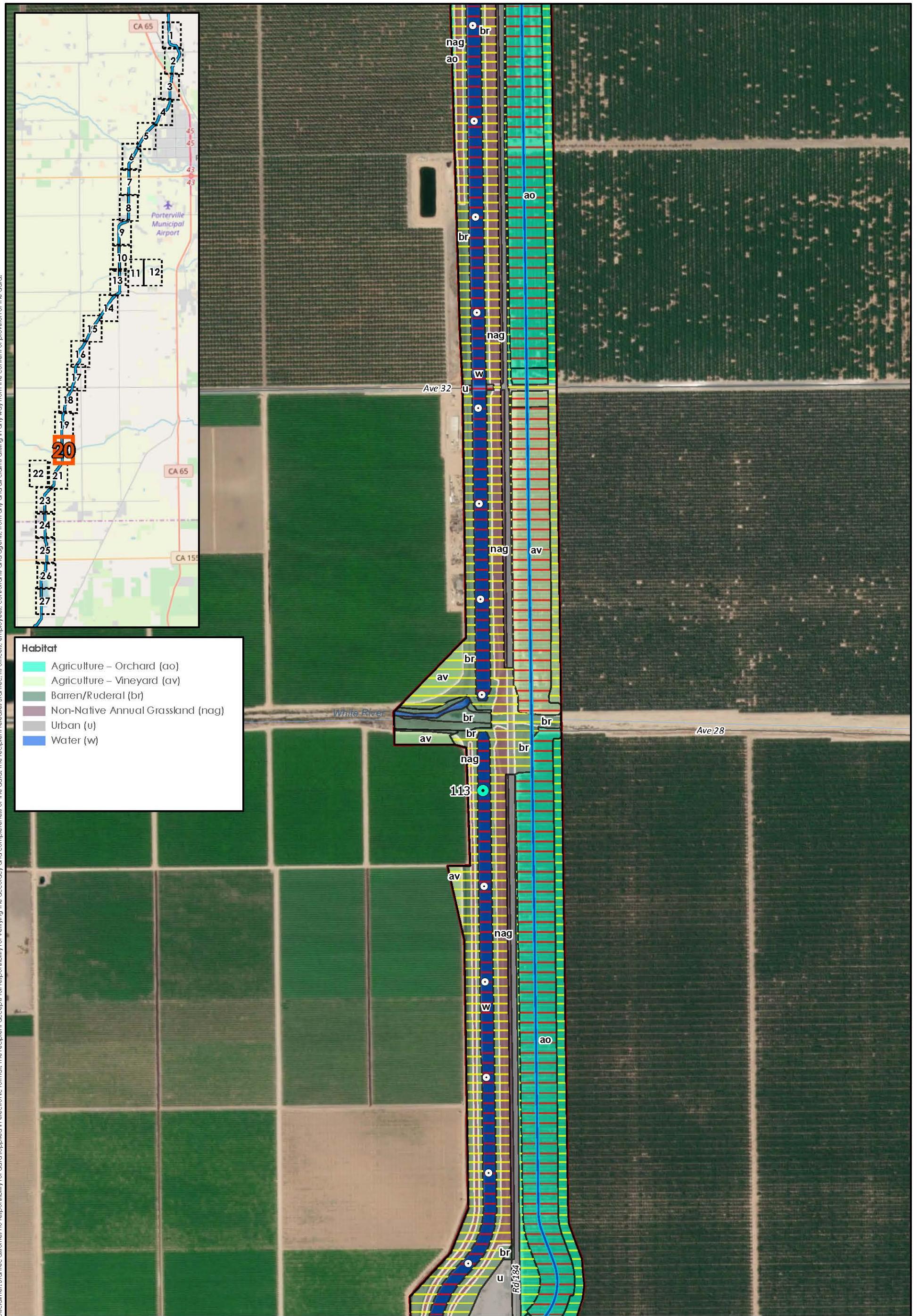
Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)



Scale: 1:6,000 (At original document size of 11x17)
Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|---|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| ● Potential Impacts | Mile Post |
| No Impact | ○ Tenth-of-Mile |
| Permanent | |
| Temporary | |

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OpenStreetMap: © OpenStreetMap (and contributors), CC-BY-SA, NAIP 2016

Figure No.

5T

Date:

Mar 04, 2020

Title

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)

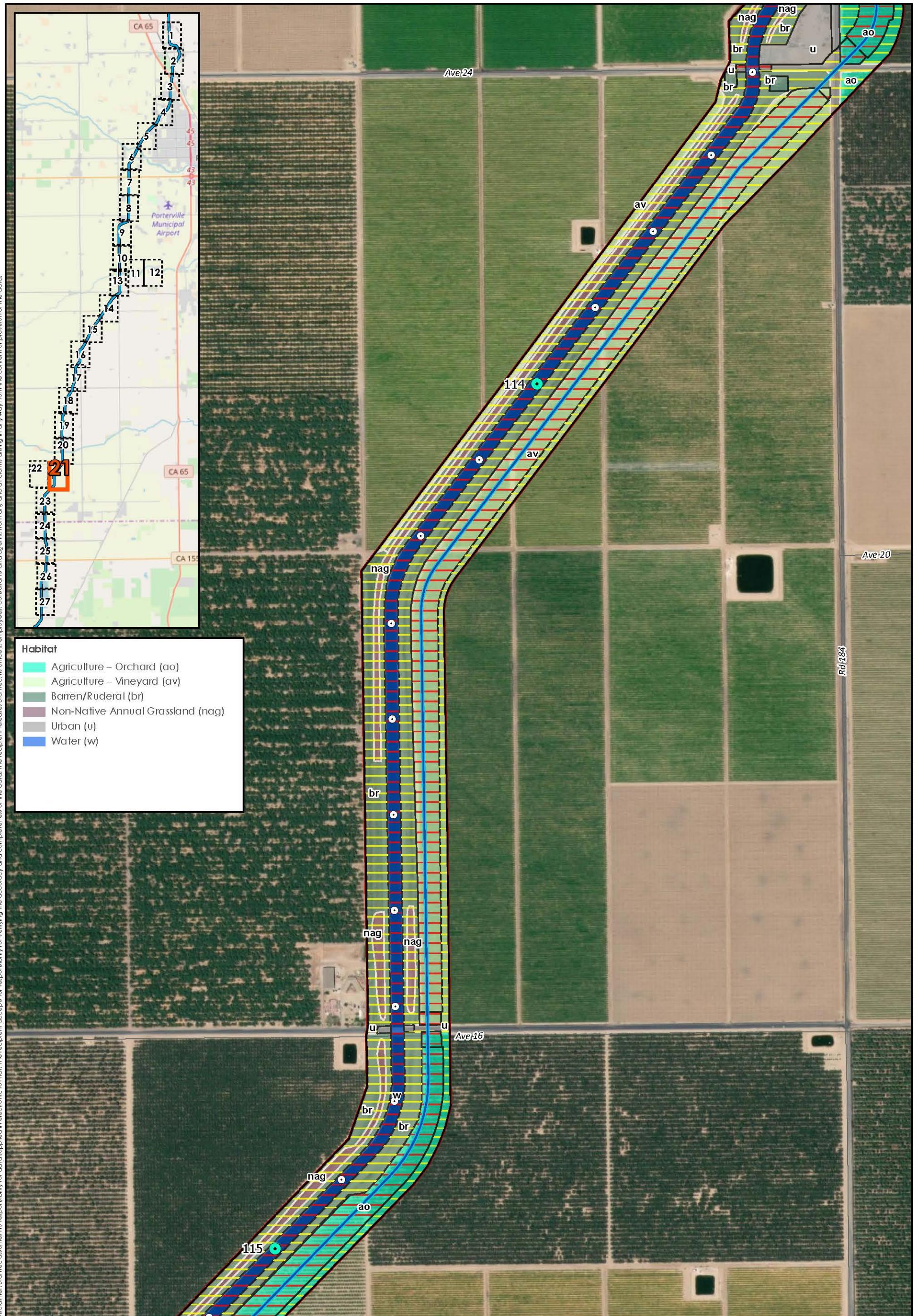
184031016



Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- Project Area
- Proposed Canal Re-alignment Centerline
- Potential Impacts
- Mile Post
- Tenth-of-Mile
- No Impact
- Permanent
- Temporary

Figure No.

5U

Date:

Mar 04, 2020

Title:

Impacts by Habitat

Project Location

Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)



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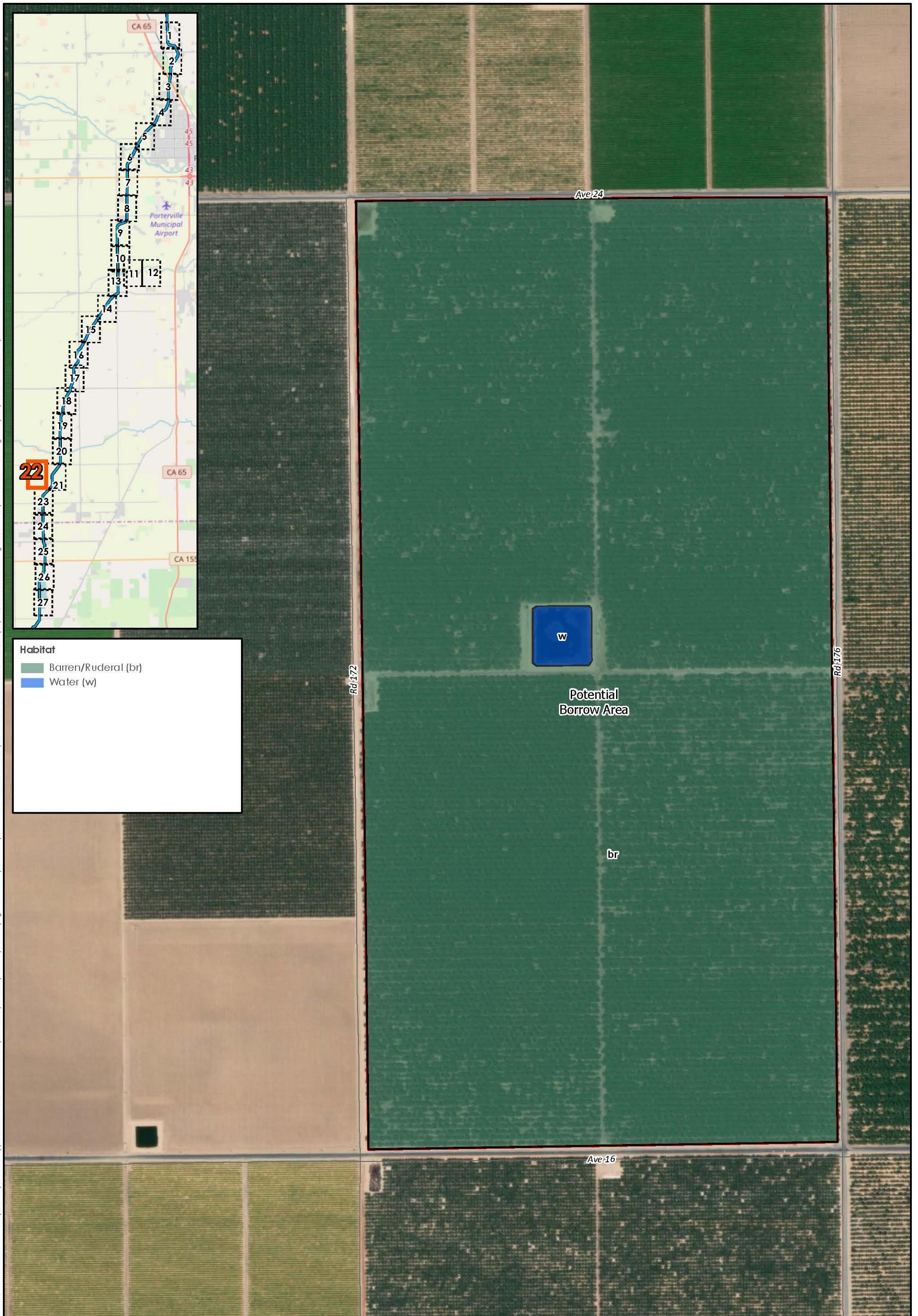


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Client/Project

Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

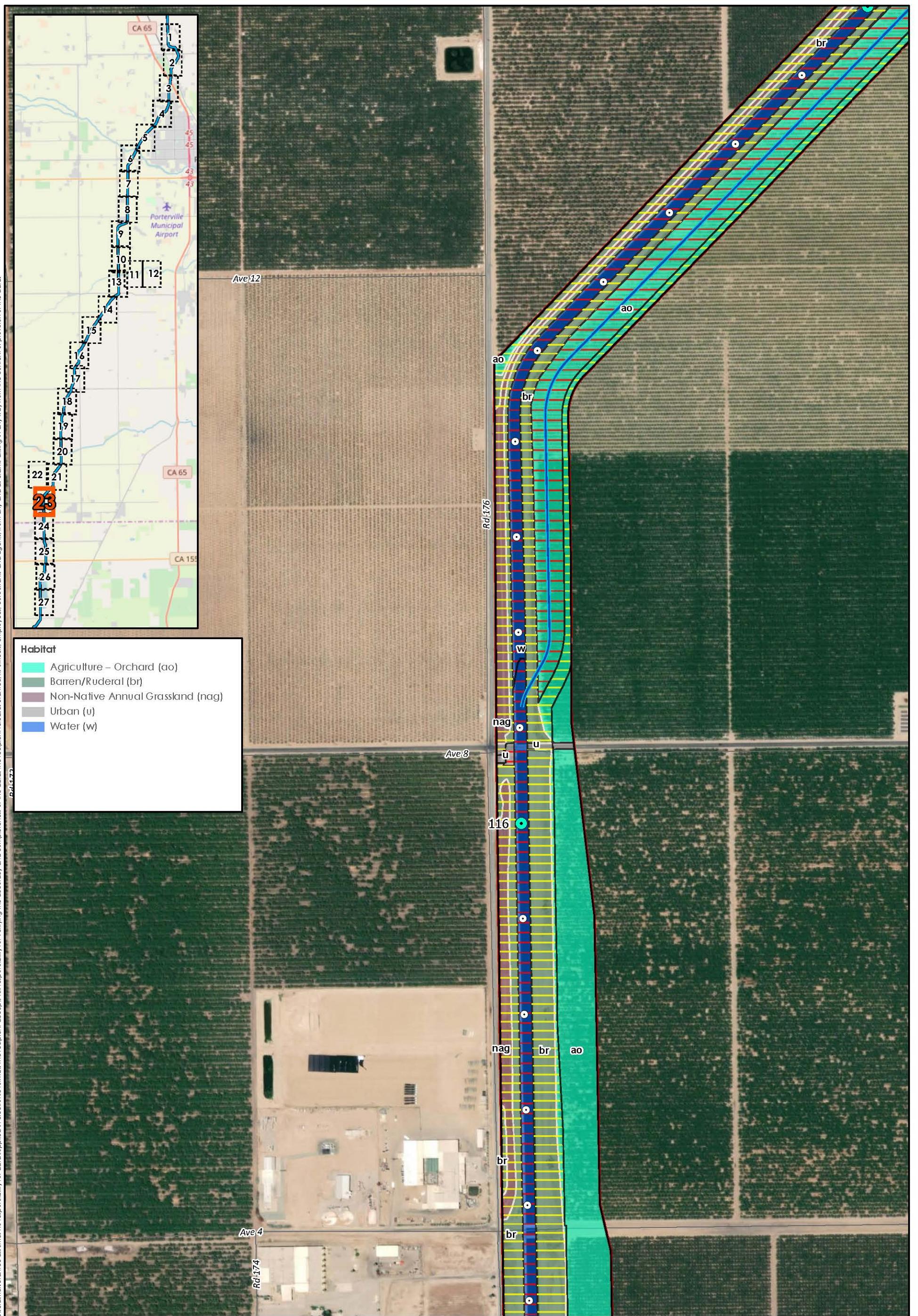
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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No.
5W Date:
Mar 04, 2020

Impacts by Habitat

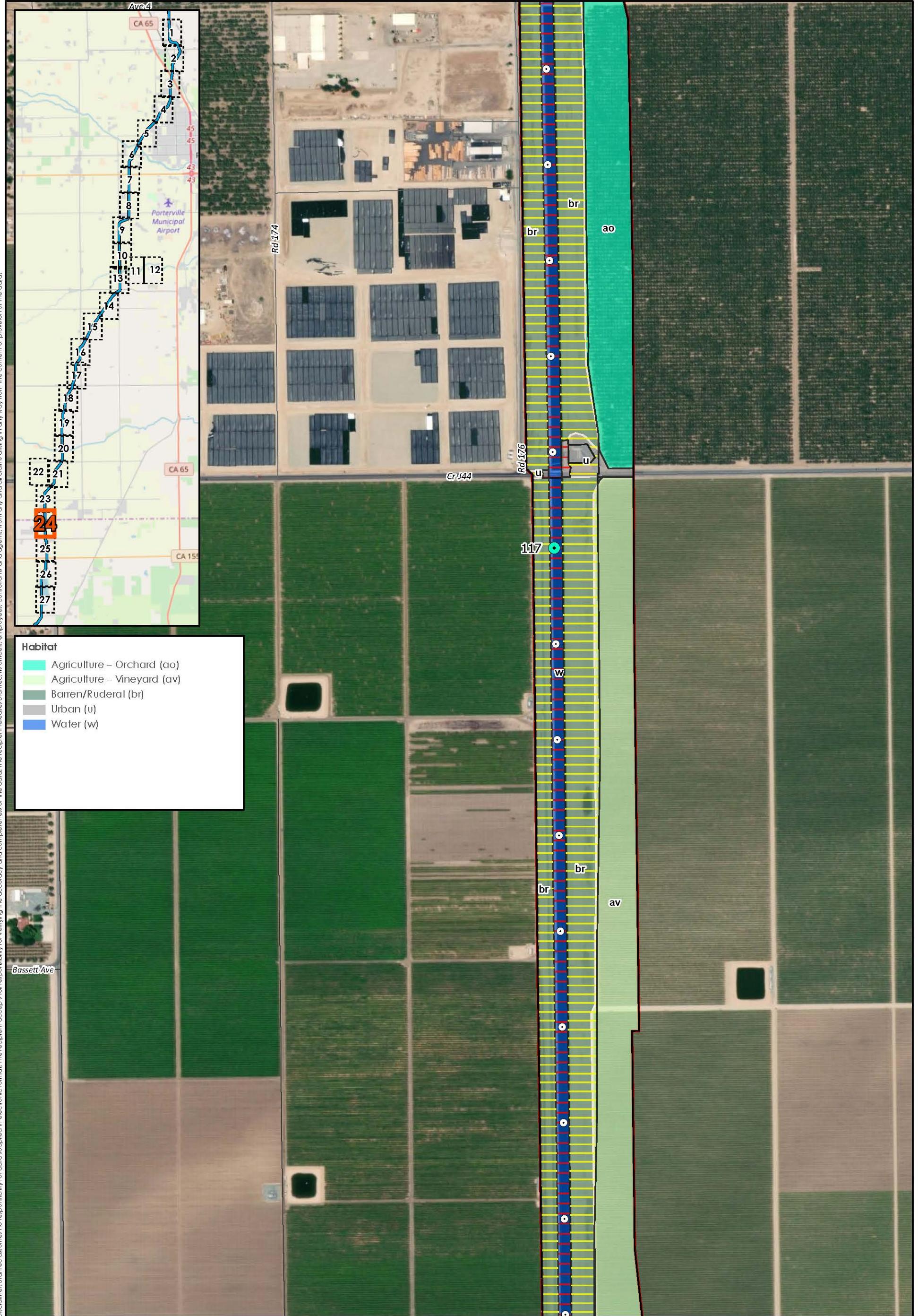
Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)



Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No. 5X Date: Mar 04, 2020

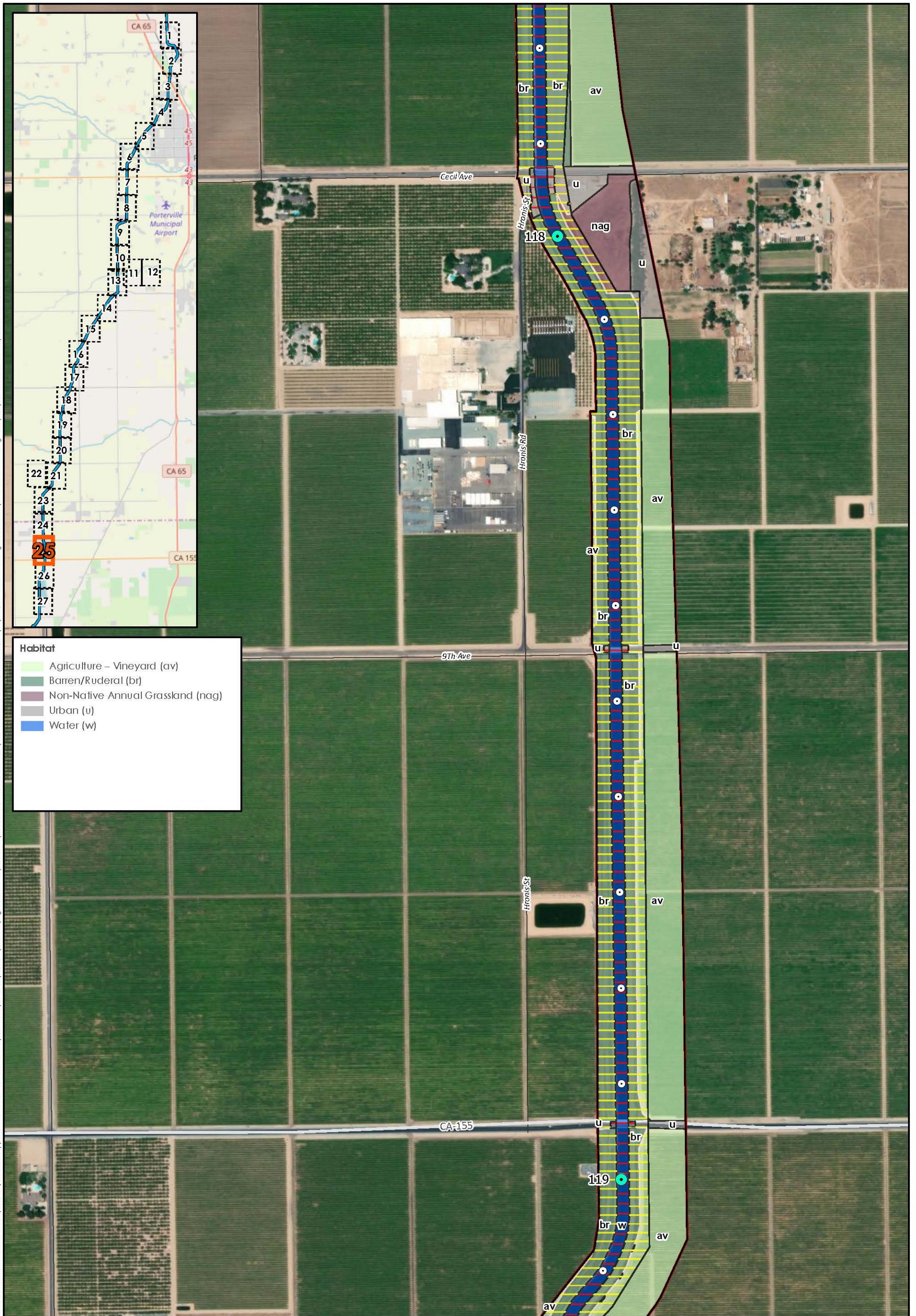
Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)
184031016



Client/Project: Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No. 5Y Date: Mar 04, 2020

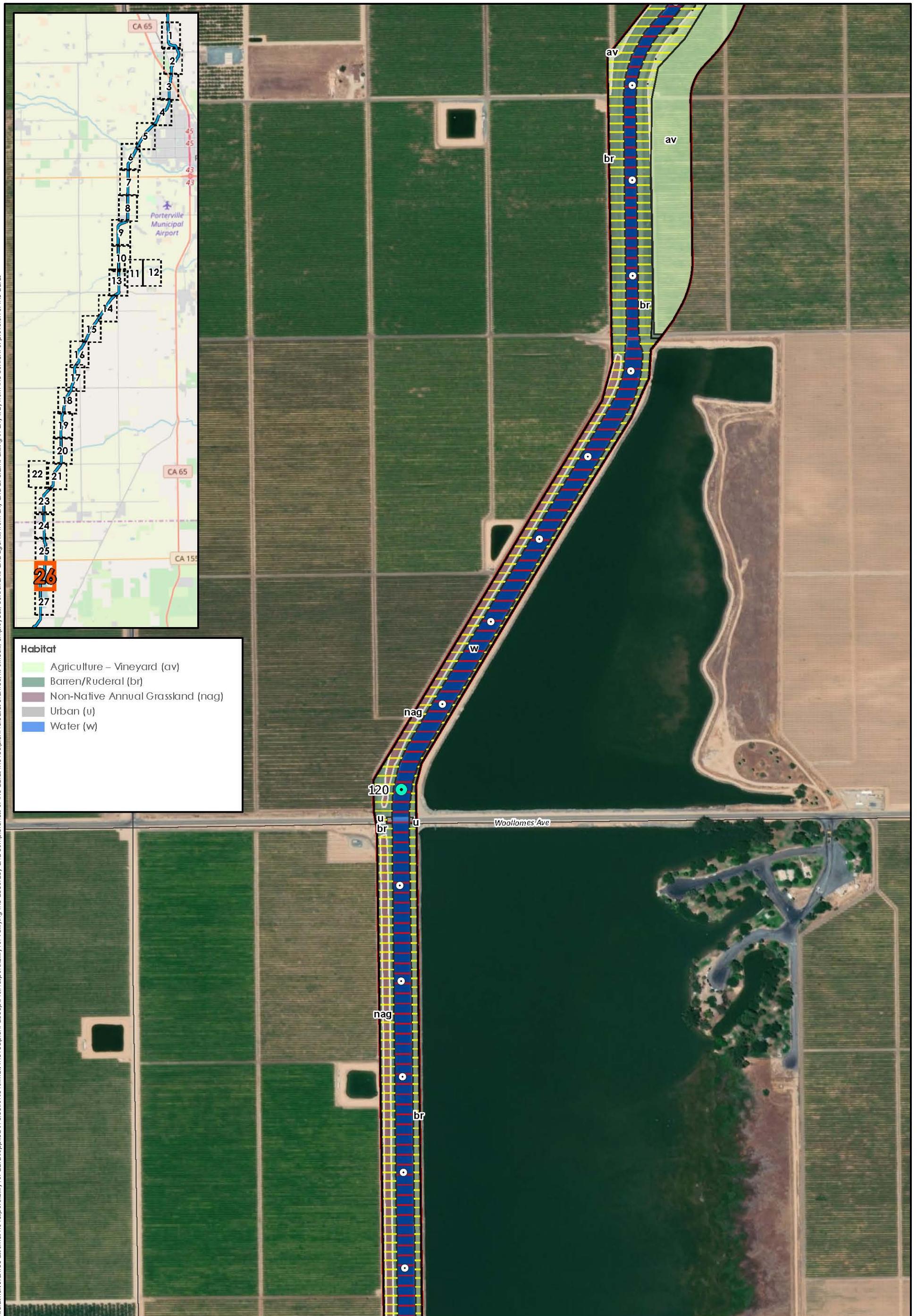
Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)
184031016



Client/Project: Friant Water Authority, Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

Figure No.

5Z

Date:

Mar 04, 2020

Title

Impacts by Habitat

Project Location: Tulare and Kern Counties, CA
7.5 USGS Quadrangles: Porterville, California (1971); Sausalito School, California (1971); Ducor, California (1972)
Prepared by SCP (2020-03-04)



Stantec

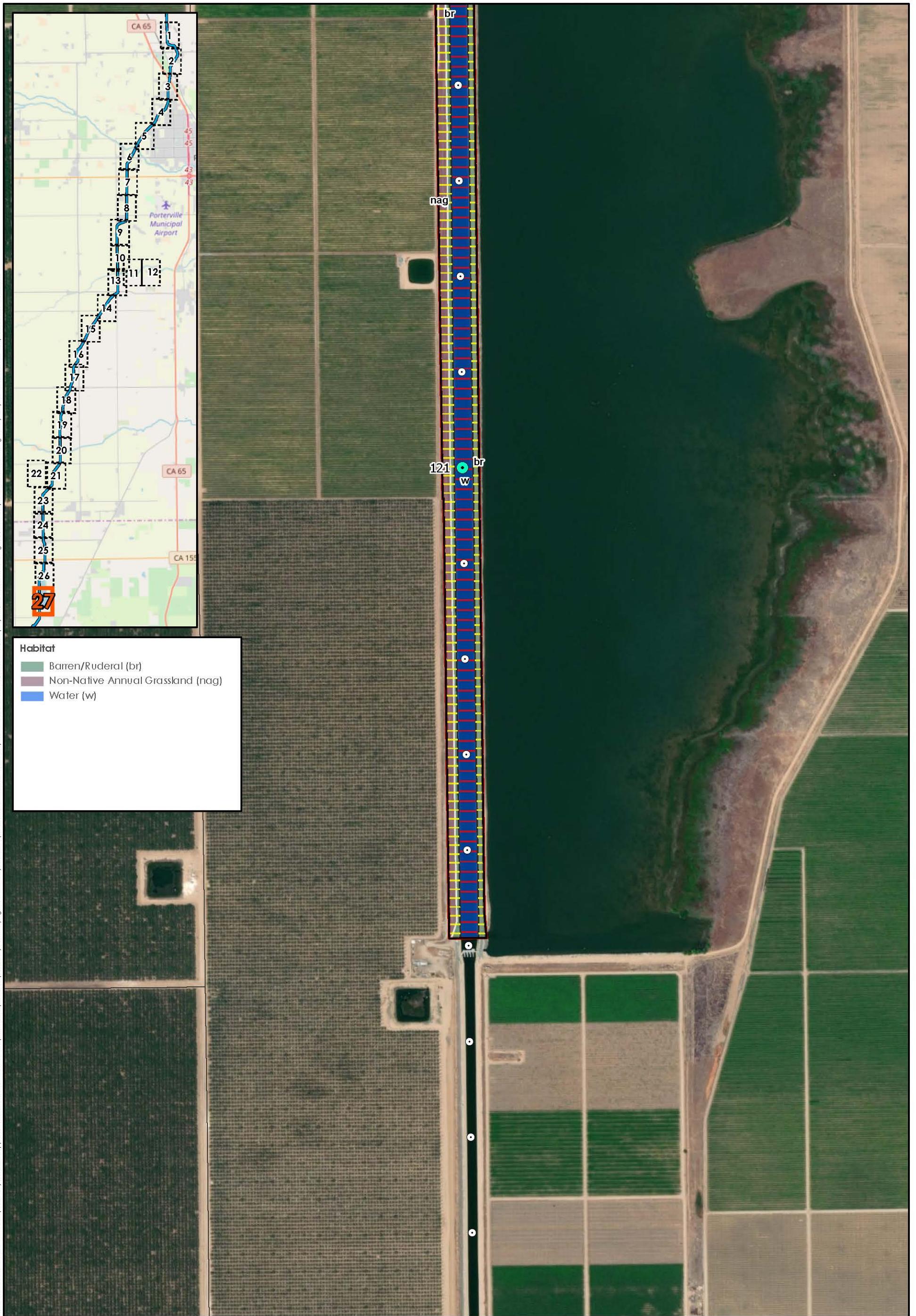


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Feet

Client/Project

Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT Canal Enlargement and Re-alignment Alternative

- | | |
|-------------------|--|
| Project Area | Proposed Canal Re-alignment Centerline |
| Potential Impacts | Mile Post |
| No Impact | Tenth-of-Mile |
| Permanent | |
| Temporary | |

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Figure No.

5A1

Date:

Mar 04, 2020

Title

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5 USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

Prepared by SCP
(2020-03-04)



Stantec



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Client/Project

Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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