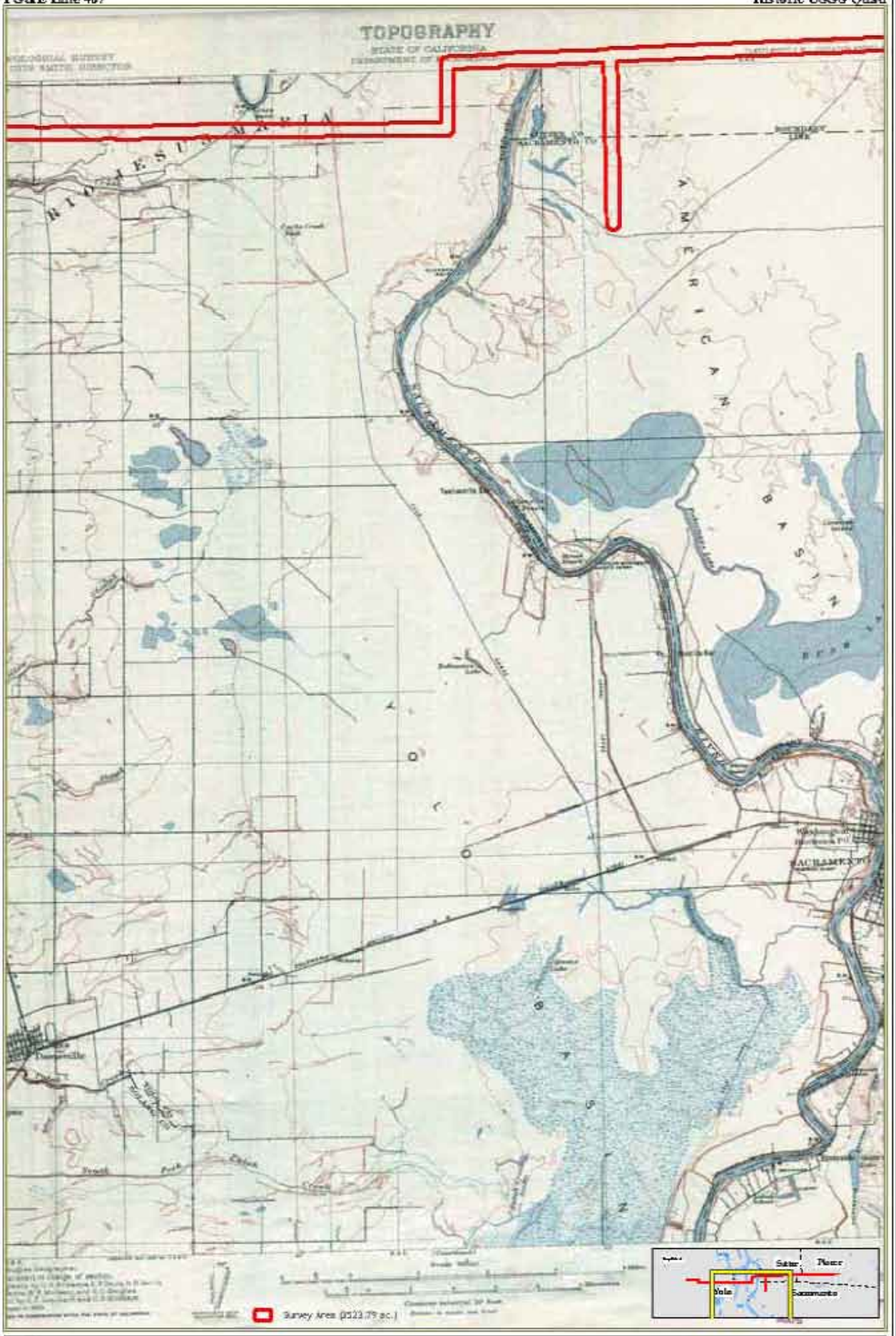
PG&E Line 407

Historic USGS Quad



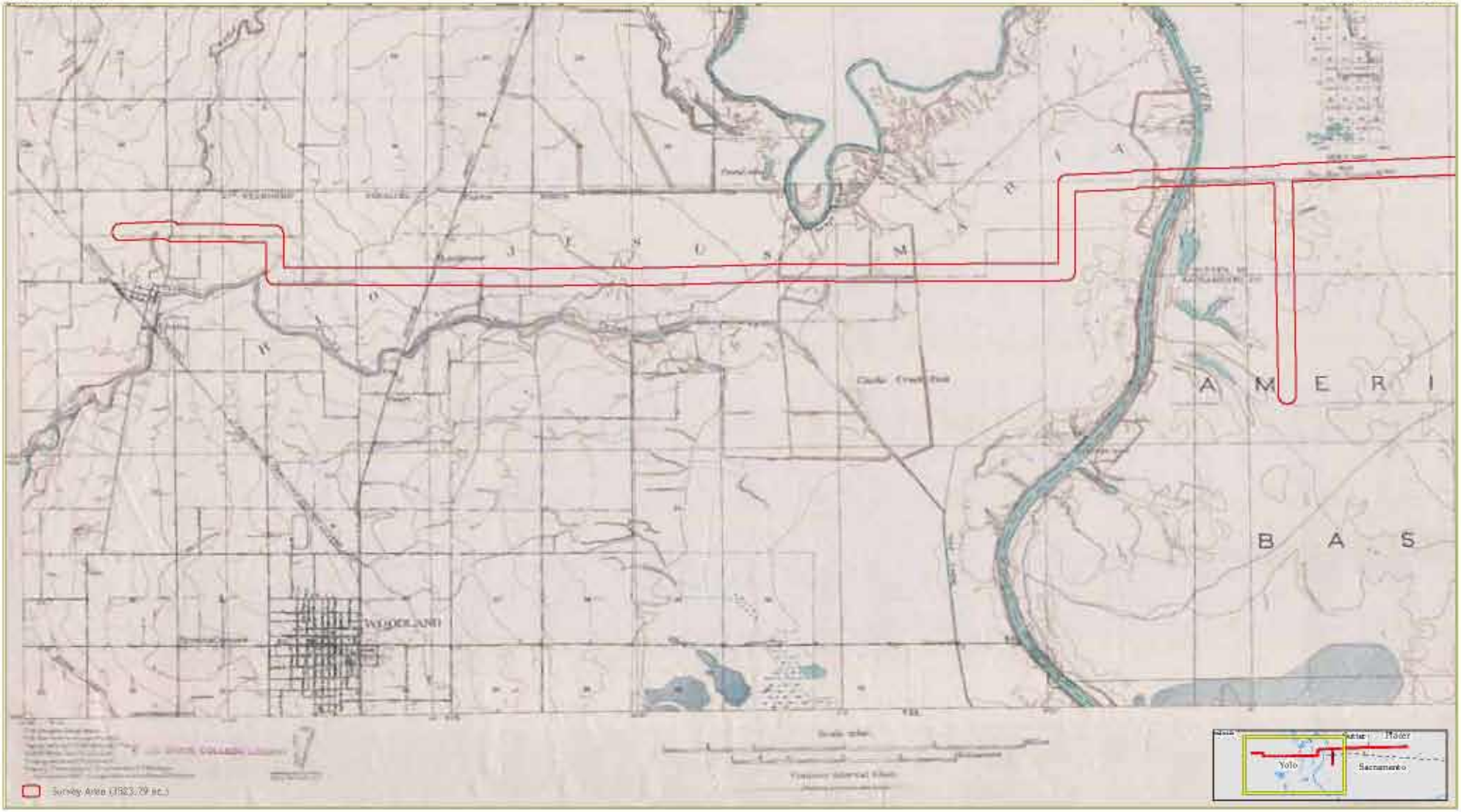
Survey area derived from 500ft. buffer of railway
Map shown 1985 1:62500 Dunlap/Elk USGS Quad
Historic Quad obtained from CSU, Chico
Mission Library Special Collection
Map Date: June 25, 2008.

Miles
0 0.5 1

GALLAWAY CONSULTING, INC.

Exhibit 1

PG&E Line 407 **Historic USGS Quad**



Survey area derived from 300 ft. buffer of readers.
Map shows 1993 1:31,680 Sacramento Valley USGS Quad.
Historic Quad obtained from CSU, Chico
Meriam Library Special Collections
Map Date: June 17, 2008

Miles
0 0.5 1

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Exhibit 2

Pacific Gas and
Electric Company®

2730 Gateway Oaks Drive, Suite 220
Sacramento, CA 95833

December 10, 2008

To: **Brian Vierria**
U.S. Army Corps of Engineers,
Regulatory Branch, Sacramento District
1325 J Street, Room 1480
Sacramento, CA 95814-2922

Re: **Revised Delineation of Waters of the U.S. Maps for the PG&E Line 407 Natural Gas Transmission Pipeline Project, Placer, Sutter, Yolo, and Sacramento Counties, CA (GCI# 2006-043).**

Dear Mr. Vierria:

Enclosed please find the revised Delineation of Waters of the U.S. maps (**Attachment A**) and Table of Waters of the U.S. Delineated (**Attachment B**) for the PG&E Line 407 Natural Gas Transmission Pipeline project. The delineation maps were revised to include rice fields as wetland features based on the USACE's comments during and subsequent to the field visits with Ms. Erin Hess and Gallaway Consulting staff conducted on January 30-31, March 3, April 17, and May 5, 2008. The enclosed maps and table replace the maps and table included as Attachments A & B to the letter addendum to the Delineation of Waters of the U.S. for the PG&E Line 407 Natural Gas Transmission Pipeline Project (Gallaway Consulting, Inc., July 23, 2008).

Feel free to contact me at (916) 923-7030 with any questions or comments.

Sincerely,

Chris Ellis

Chris Ellis, AICP
Principal Planner

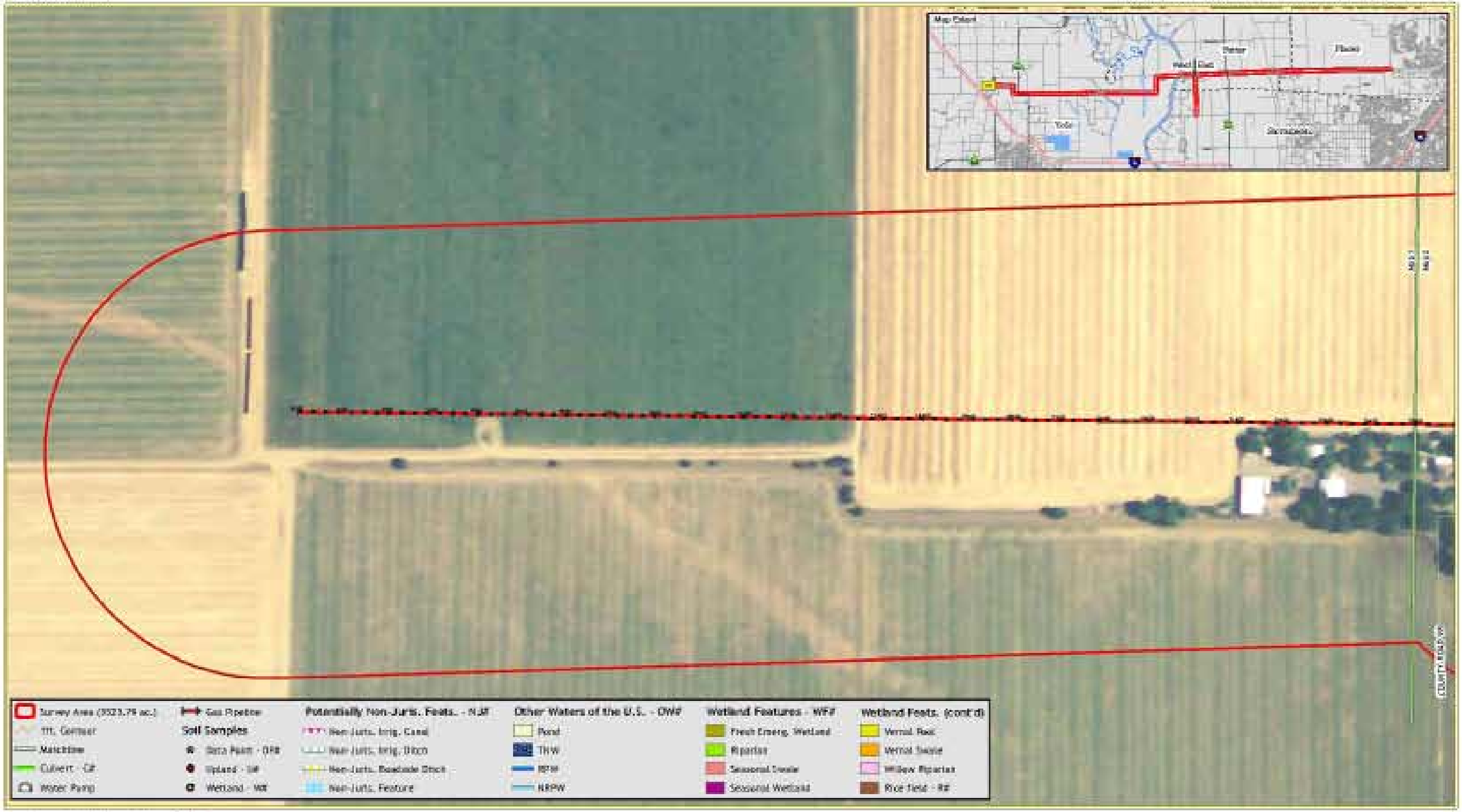
PG&E Line 406 and Line 407 Pipeline Project
Jurisdictional Waters Impacts

Site #	Feature and Map Number	Type	Proposed Crossing Method	Direct Impacts Acreage	Indirect Impacts Acreage	Federally-listed Species	Cultural Resources
1	Hungry Hollow Canal/ L406 Map 3A	Hungry Hollow Canal	Open Cut	0.05	0.01	GGS	Yes
2	Unnamed Canal 1/ L406 Map 3D	Unnamed Drainage Canal	Open Cut	0.02	0.01	GGS	No
3	Unnamed Canal 2/ L406 Map 3E	Unnamed Drainage Canal	Open Cut	0.02	0.01	GGS	No
5	Goodnow Slough/ L406 Map 3F	Goodnow Slough	Open Cut	0.03	0.01	CTS, GGS	Yes
6	Seasonal Wetland Swale #2/ L406 Map 3H	Seasonal Swale; Erosional Channel	Open Cut	0.03	0	CTS	No
7	Acacia Canal/ L406 Map 3K	Acacia Canal	Open Cut	0.02	0.01	GGS	No
12	OW13/ L407 Map 22	Unnamed Drainage Canal	Open Cut	0.05	0.01	GGS	No
13	OW14/ L407 Map 23	Unnamed Drainage Canal	Open Cut	0.06	0.02	GGS	No
14	OW15/ L407 Map 23	Unnamed Drainage Canal	Open Cut	0.06	0.02	GGS	No

Site #	Feature and Map Number	Type	Proposed Crossing Method	Direct Impacts Acreage	Indirect Impacts Acreage	Federally-listed Species	Cultural Resources
17	NJ04/ L407 Map 26	Unnamed Drainage Canal	Open Cut	0.03	0.01	GGS	No
18	OW122/ L407 Map 27	Unnamed Drainage Canal	Open Cut	0.03	0.01	GGS	No
21	OW134/ L407 Map 31	Unnamed Drainage Canal	Open Cut	0.05	0.01	GGS	No
24	OW131/ L407 Map 36	North Drainage Canal	Open Cut	0.11	0.03	GGS	No
29	OW128/ L407 Map 40	Unnamed Drainage Canal	Open Cut	0.05	0.01	GGS	No
30	OW127/ L407 Map 41 WF164e, WF162e, WF161e, WF160e, WF159e, WF158e, WF166e, WF157e/ L407 Maps 41, 42	Unnamed Drainage Ditch; Seasonal Wetlands	Open Cut	4.80	0.01	GGS	No
33	WF155e/ L407 Map 43	Seasonal Wetland	Open Cut	0.02	0	*B. lynchi*	No
35	WF154e/ L407 Map 44	Seasonal Wetland	Open Cut	0.02	0	*B. lynchi*	No
36	WF060e, WF061e/ L407 Map 45	Seasonal Wetlands	Open Cut	0.07	0	*B. lynchi*	No
37	WF062e, WF179e, WF059e / L407 Map 46	Seasonal Wetlands	Open Cut	0.08	0	*B. lynchi*	No

Site #	Feature and Map Number	Type	Proposed Crossing Method	Direct Impacts Acreage	Indirect Impacts Acreage	Federally-listed Species	Cultural Resources
38	WF114e/ L407 Map 47	Seasonal Swale	Open Cut	0.06	0	*B. lynchi*	No
39	WF144e/ L407 Map 47 WF054e/ L407 Maps 47, 48	Seasonal Wetland and Riparian Wetland	Open Cut	0.05	0	*B. lynchi*	No
40	WF050e/ L407 Map 49	Seasonal Swale	Open Cut	0.05	0	*B. lynchi*	No
42b	WF048e/ L407 Map 50	Seasonal Wetland	Open Cut	0.10	0	*B. lynchi*	No
43a	WF029e, WF030e/ L407 Map 51	Seasonal Swale, Seasonal Wetland/	Open Cut	0.03	0	*B. lynchi*	No
43c	WF174e, WF173e/ L407 Map 53	Seasonal Swales/	Open Cut	0.31	0	*B. lynchi*	No
45	WF002e/ L407 Map 54	Seasonal Swale	Open Cut	0.08	0	*B. lynchi*	No
46	WF007e/ L407 Map 55	Seasonal Wetland	Open Cut	0.72	0	*B. lynchi*	No

Site #	Feature and Map Number	Type	Proposed Crossing Method	Direct Impacts Acreage	Indirect Impacts Acreage	Federally-listed Species	Cultural Resources
47	R19/ L407 Map 26, 27 R18/ L407 Map 27, 36 R32/ L407 Map 28, 29 R33/ L407 Map30, 31 R04/ L407 Map 31, 32, 33 R05/ L407 Map 33, 34 R36/ L407 Map34 R02/ L407 Map 35 R21, R07, R23, R14, R09/ L407 Map 36, 36, 38, 39 R12, R28, R17/ L407 Map 40, 41	Rice	Open Cut	55.02	13.75	GGS	Yes



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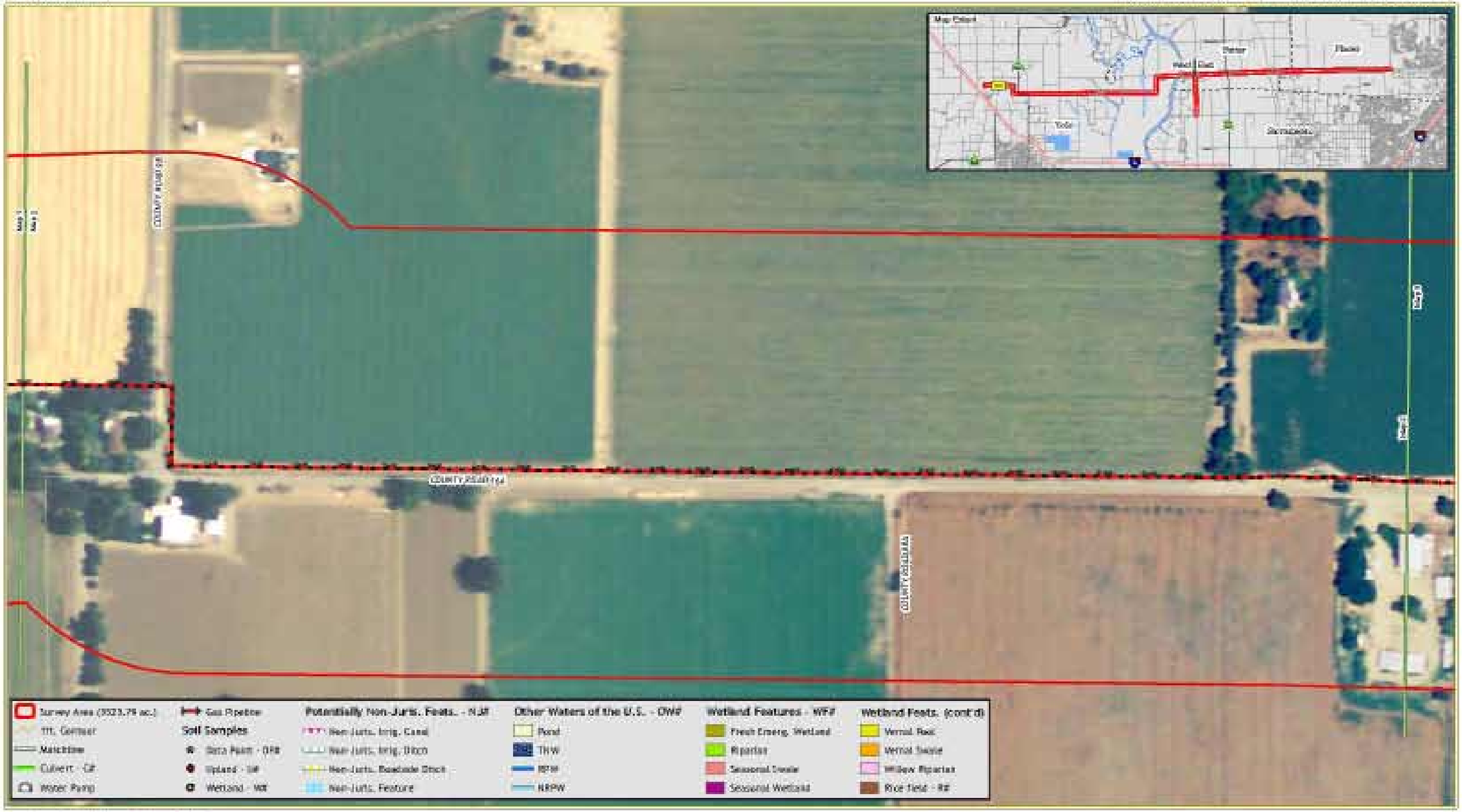
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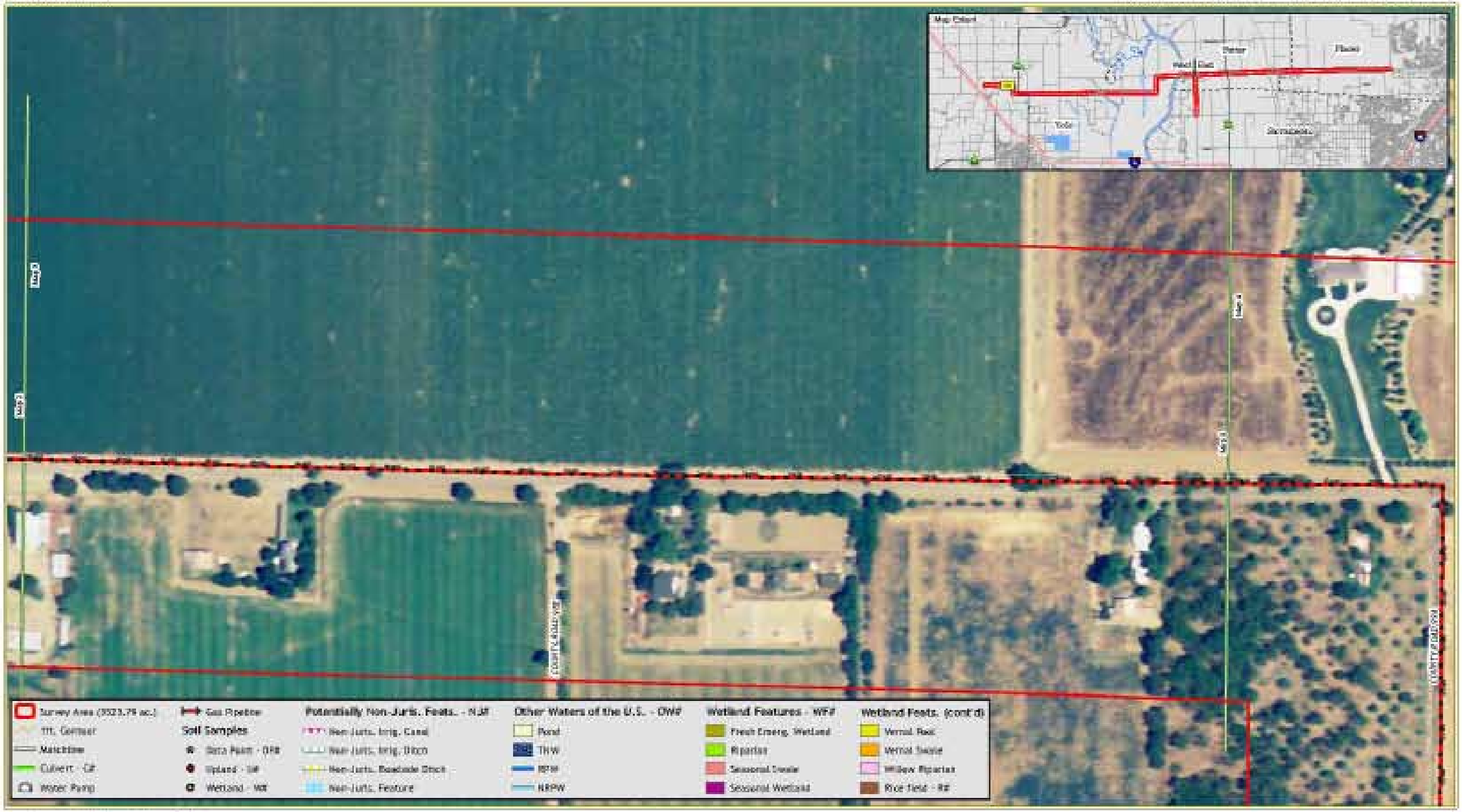
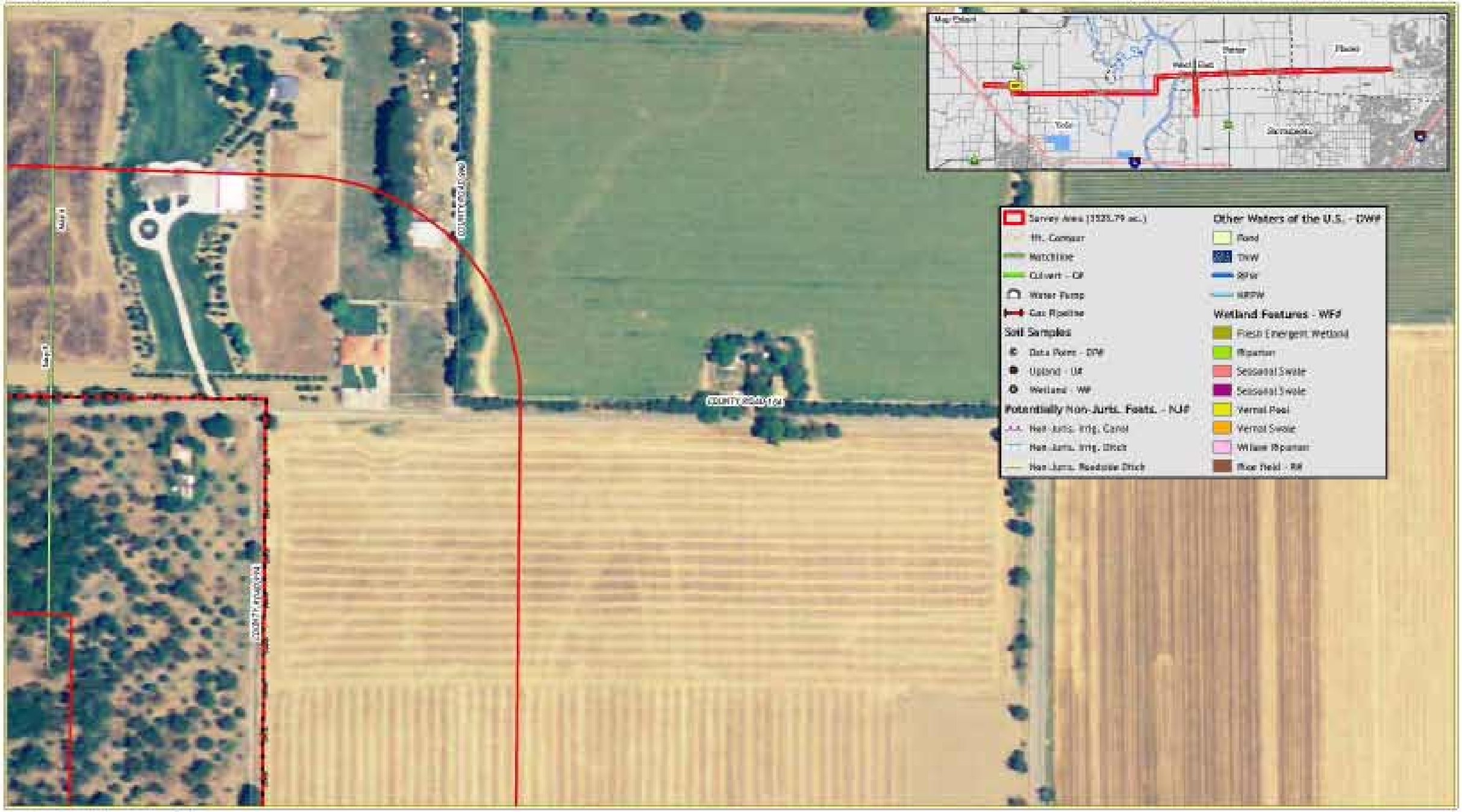
Sacramento
Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJ#
Other Waters of the U.S. - OW#
Wetland Features - WF#
Wetland Feats. (cont'd)
Soil Samples
Data Point - DP#
Upland - U#
Wetland - W#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
Gas Pipeline
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
THW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Culvert - CU
Water Pump
Feet
0
100
200
GALLAWAY
CONSULTING, INC.



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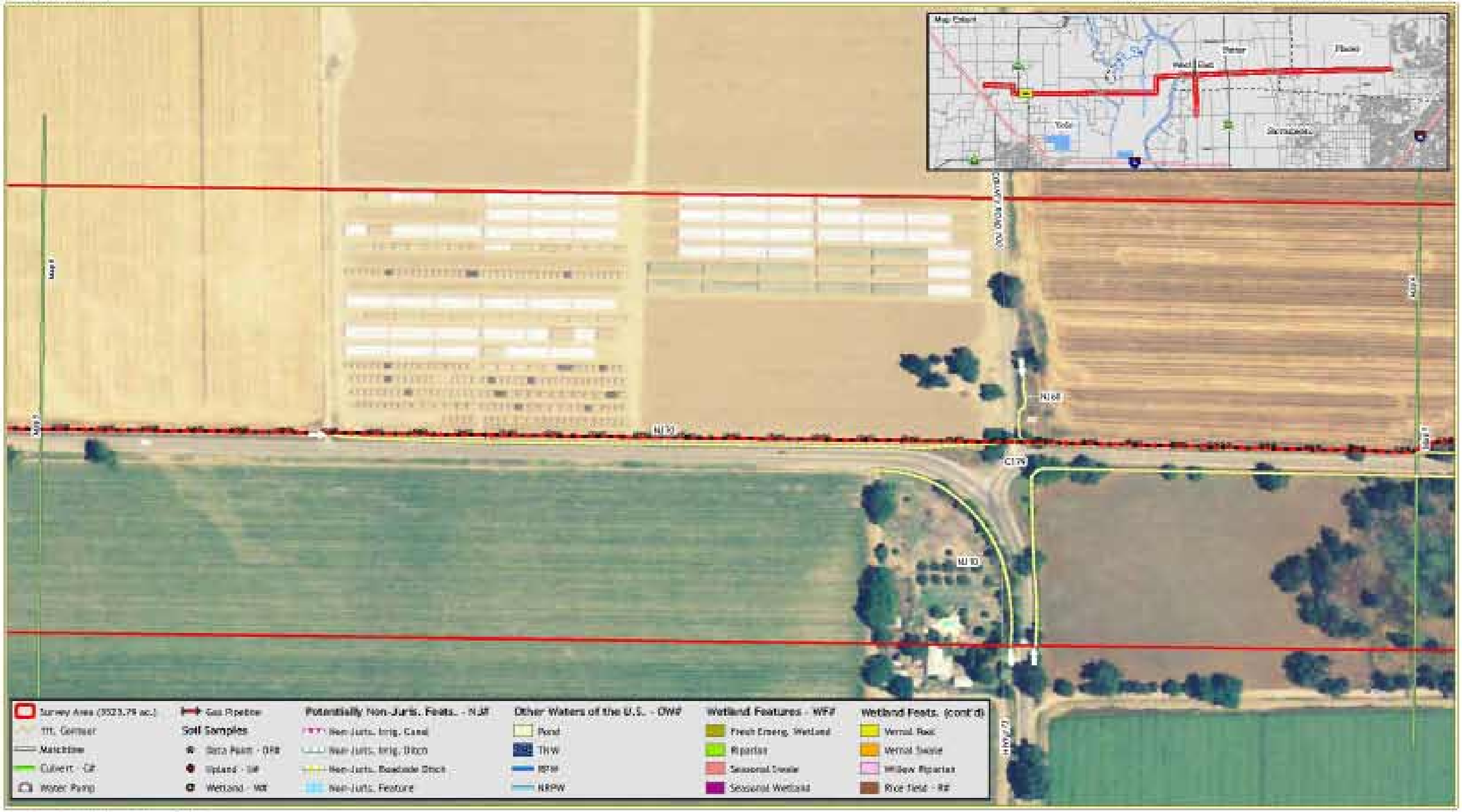
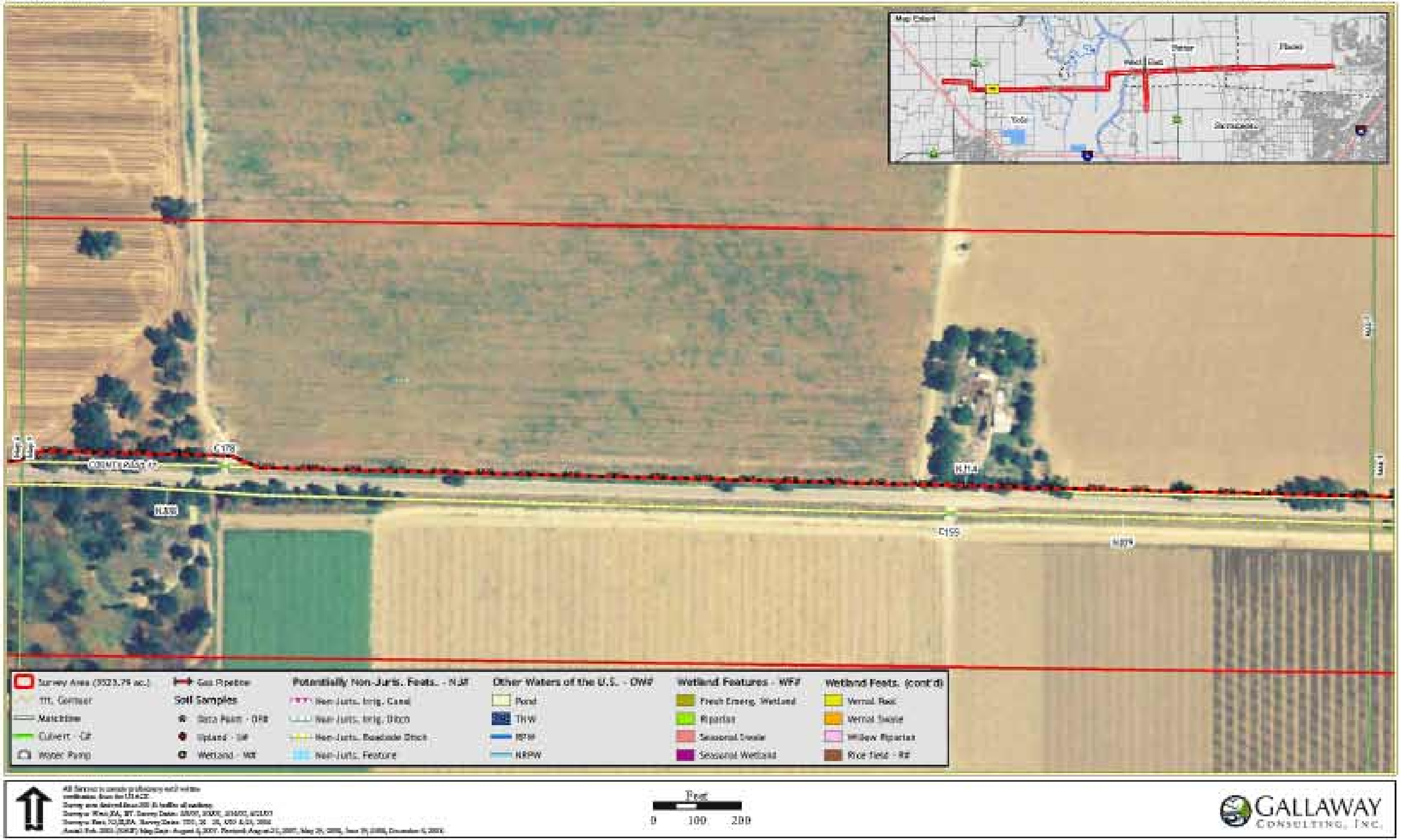

Map Point
Yolo
Sacramento
Solano
Sacramento
Yolo
Map 5
Map 7
NJ1
NJ2
NJ3
NJ4
NJ5
Survey Area (3523.79 ac.)
TTL Contour
Mainline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
THW
RPW
NRPW
Wetland Features - WPF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.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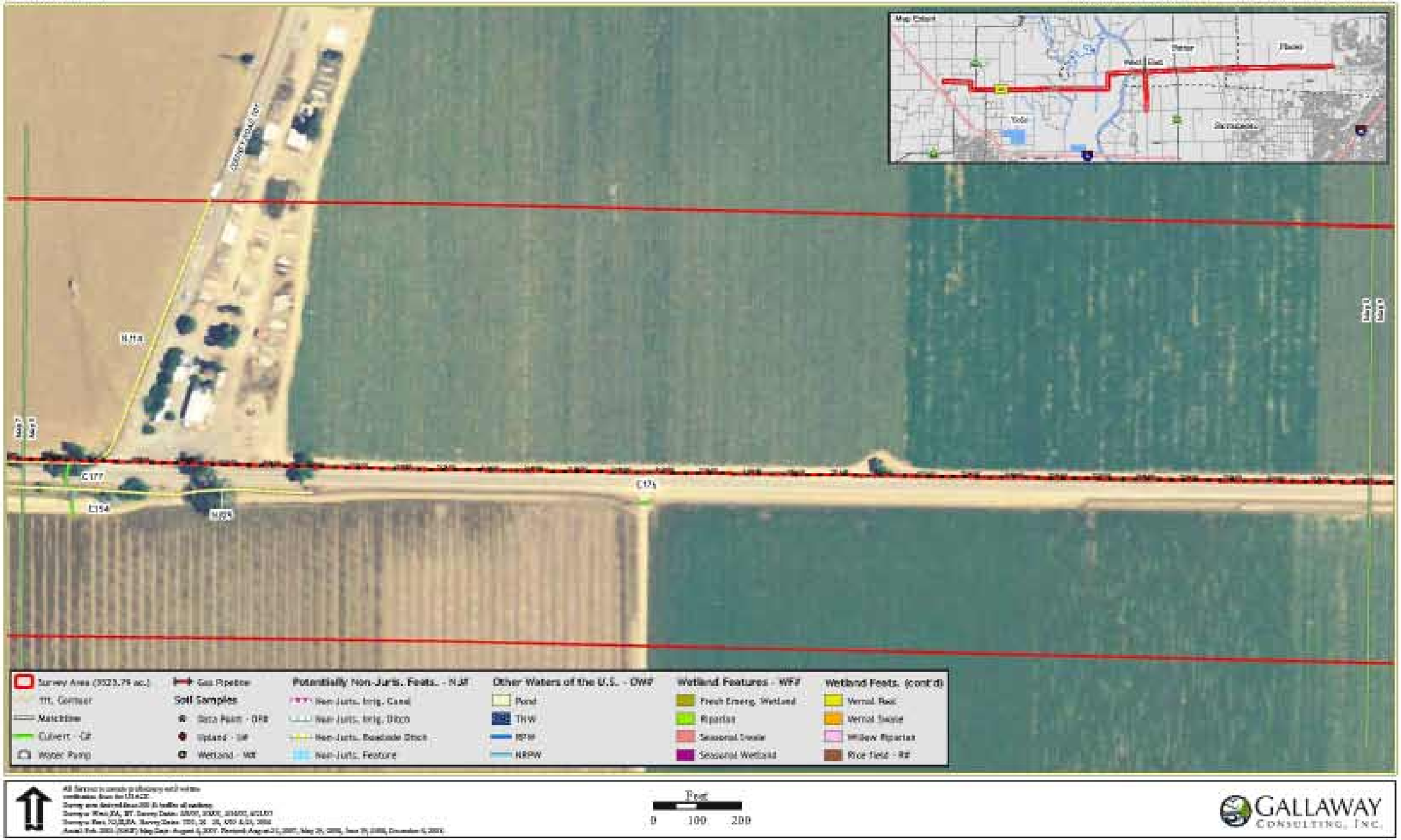
TTL Contour
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPR
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
THW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.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Yolo
Sacramento
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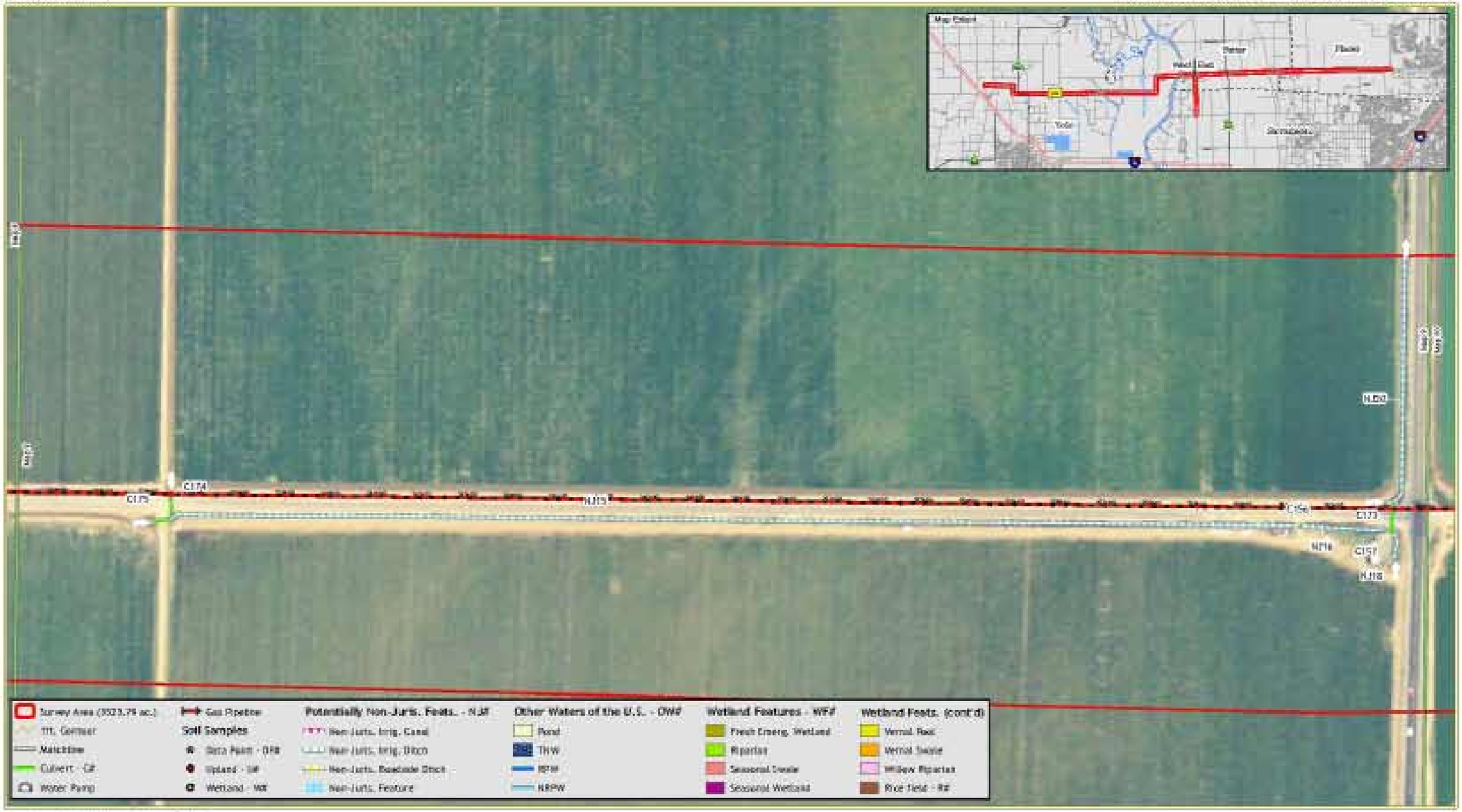
Potentially Non-Juris. Feats. - NJ#
Other Waters of the U.S. - OW#
Wetland Features - WF#
Wetland Feats. (cont'd)
Soil Samples
Data Point - DP#
Upland - U#
Wetland - W#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.



GALLAWAY CONSULTING, INC.

Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPR
Upland - UP
Wetland - WT
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - RF
C157
C33
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

Map Extent
Yolo
Sacramento
Placer
Sutter
Colusa
Map 10
Map 12
C.172
C.158
N.D.1
N.D.3
COUNTY ROAD 17
Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPR
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
THW
RPW
NRPW
Wetland Features - WPF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

Map Extent
Yolo
Sacramento
Placer
N155
C201
C159
COUNTY ROAD 17
N29
N28
N43
Survey Area (3523.79 ac.)
TTL Centerline
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
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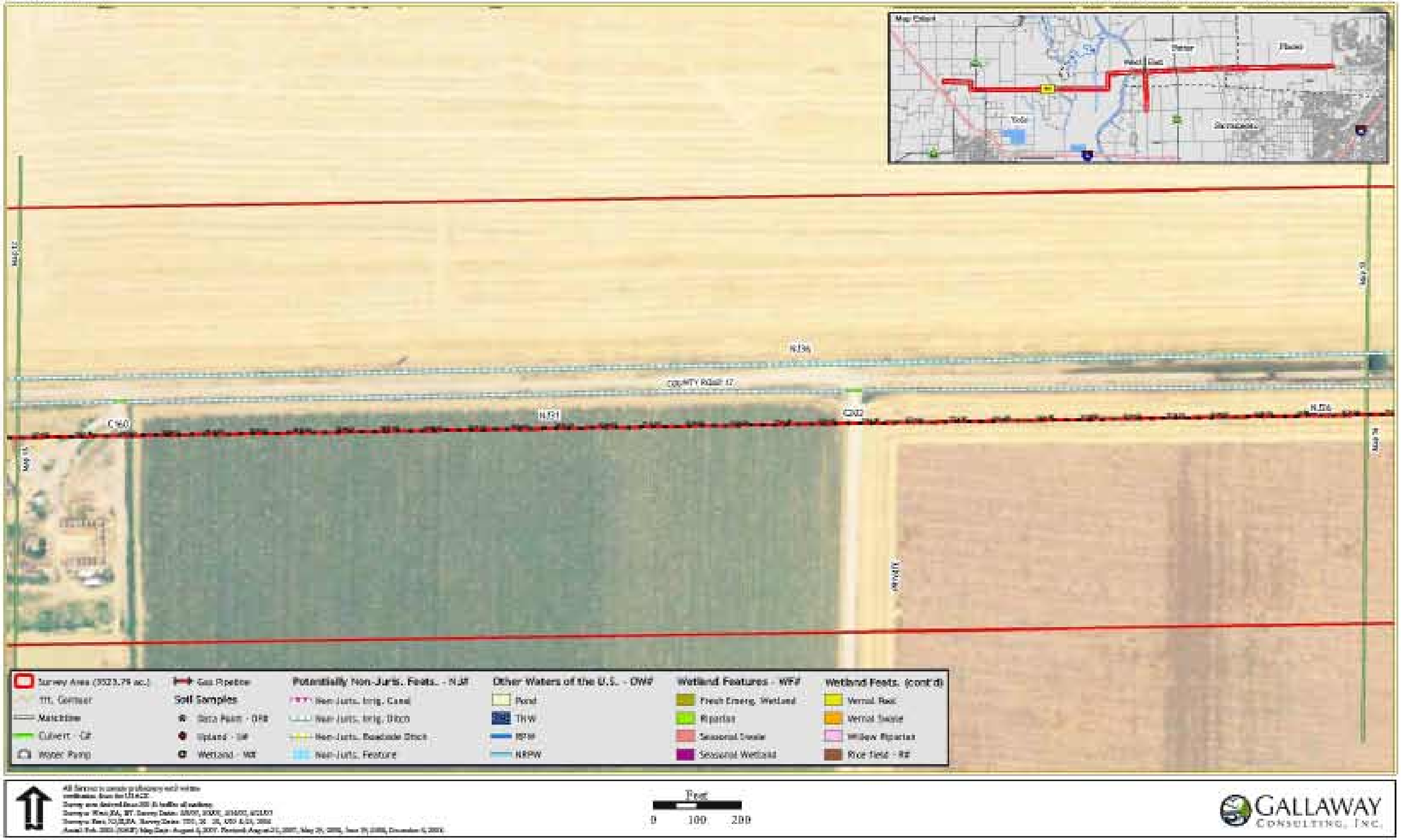
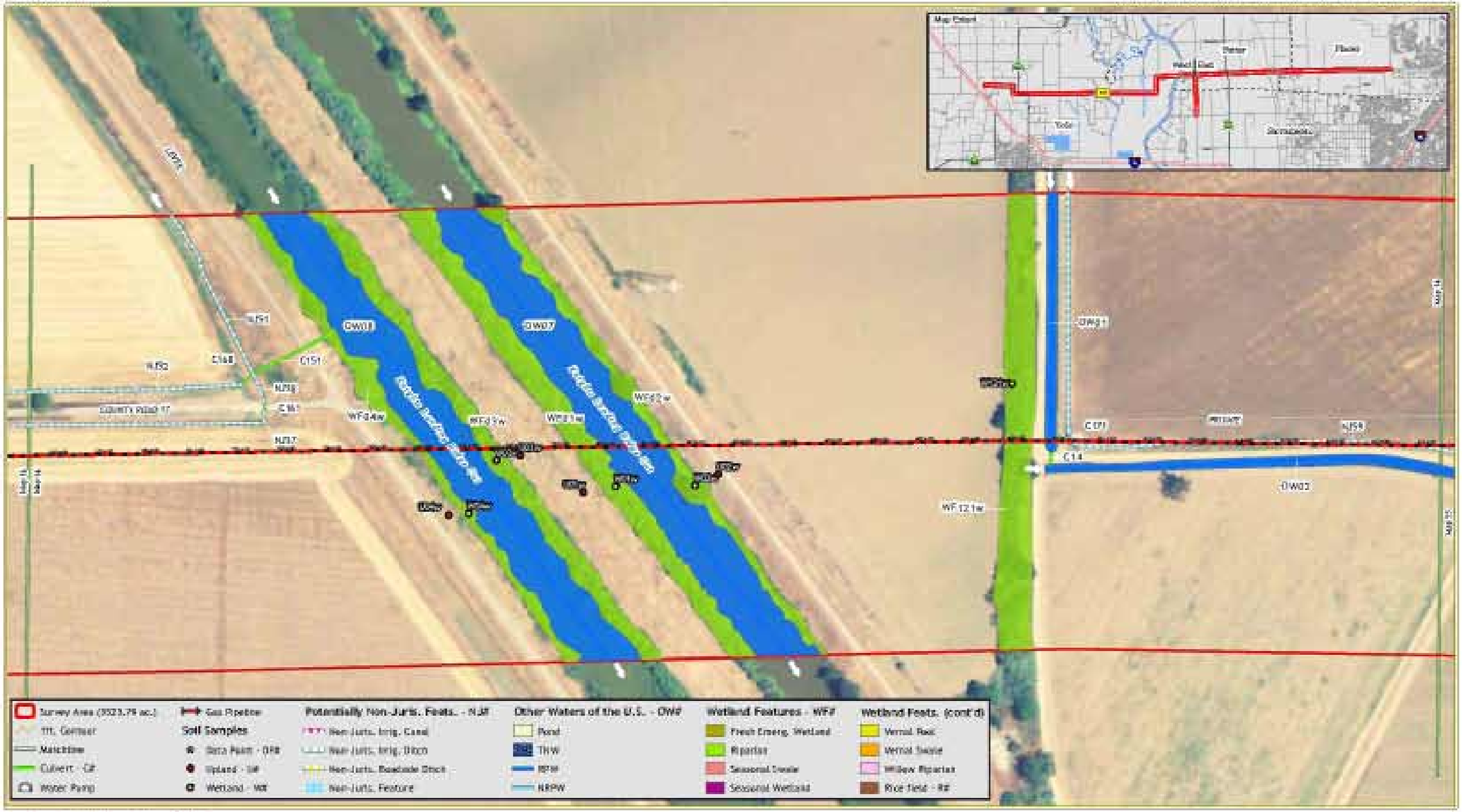
100
200
GALLAWAY
CONSULTING, INC.


Map Extent
Yolo
Sacramento
Placer
Sutter
Colusa
Map 12
Map 13
N136
COUNTY ROAD 17
N131
C140
C142
N134
Map 14
Map 15
Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - Cul
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPR
Upland - Up
Wetland - Wt
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WPF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - Rf
Feet
0
100
200
GALLAWAY
CONSULTING, INC.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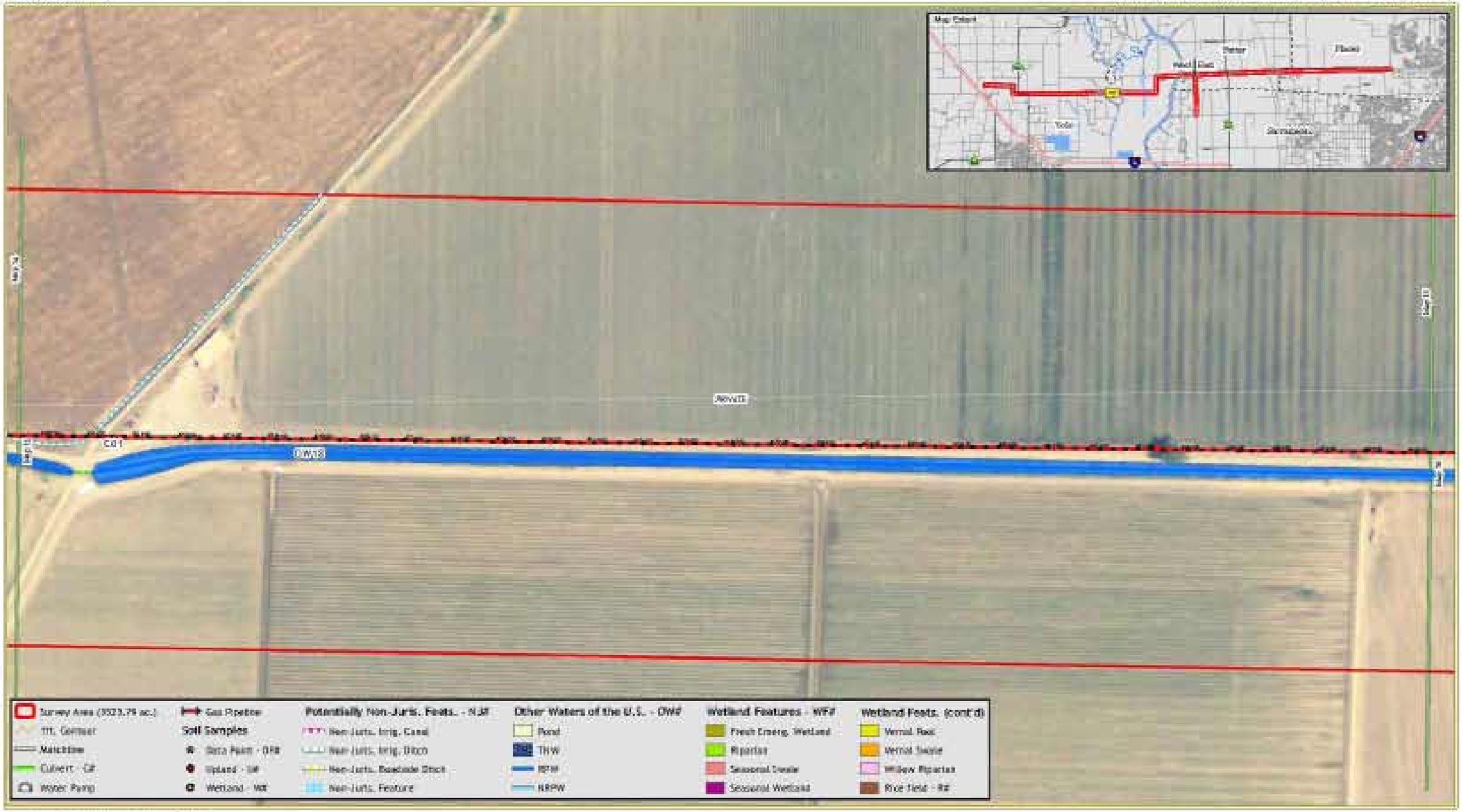
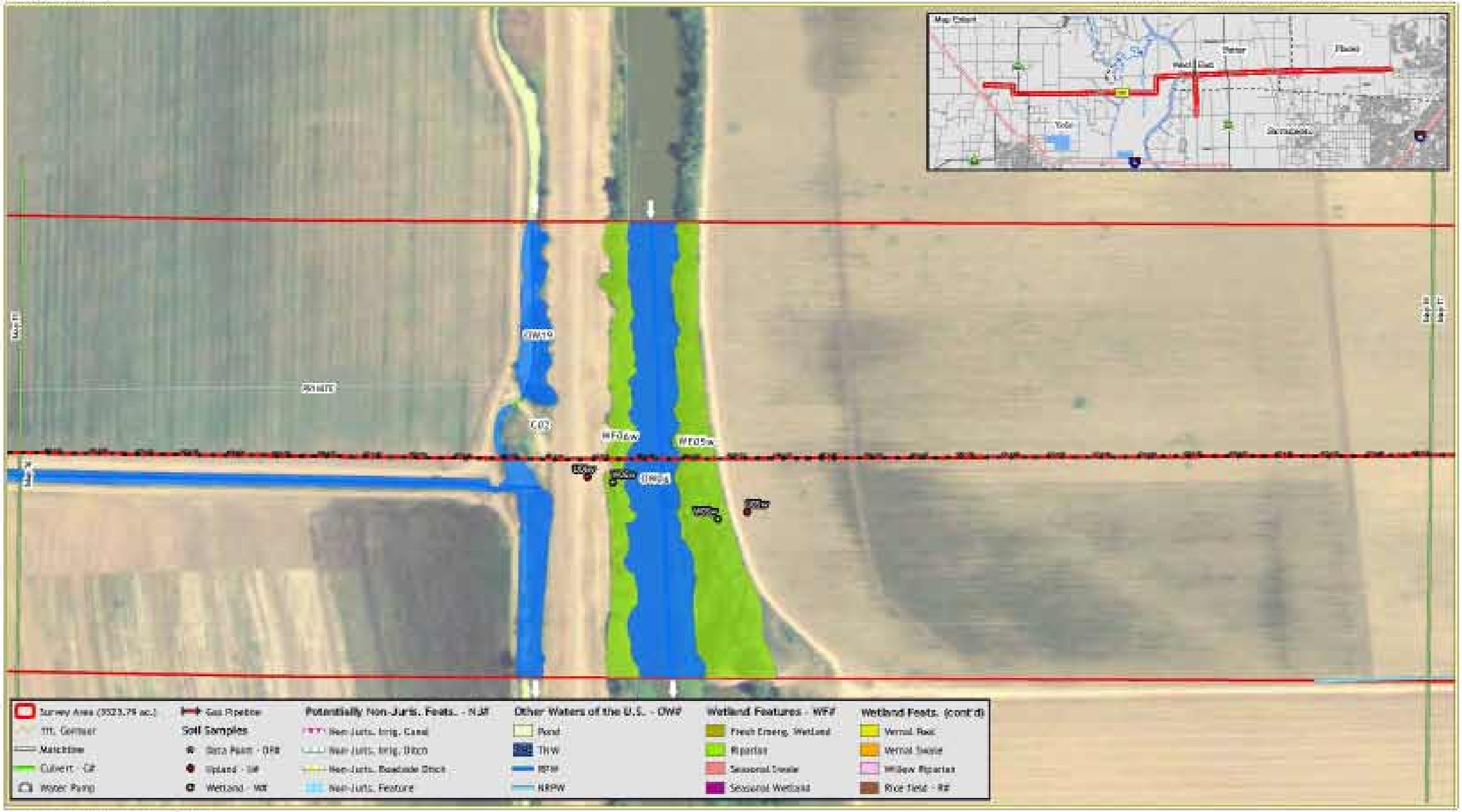
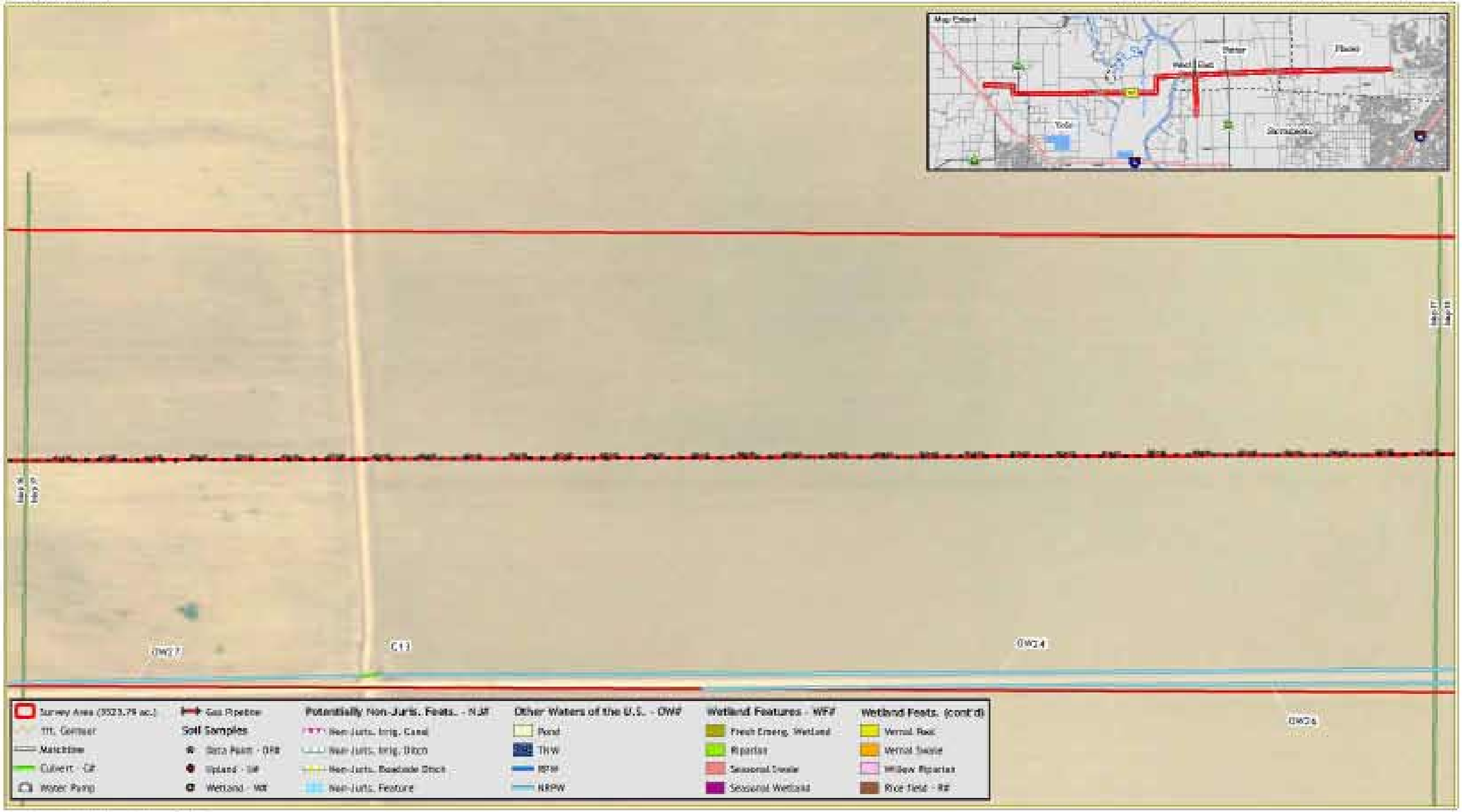
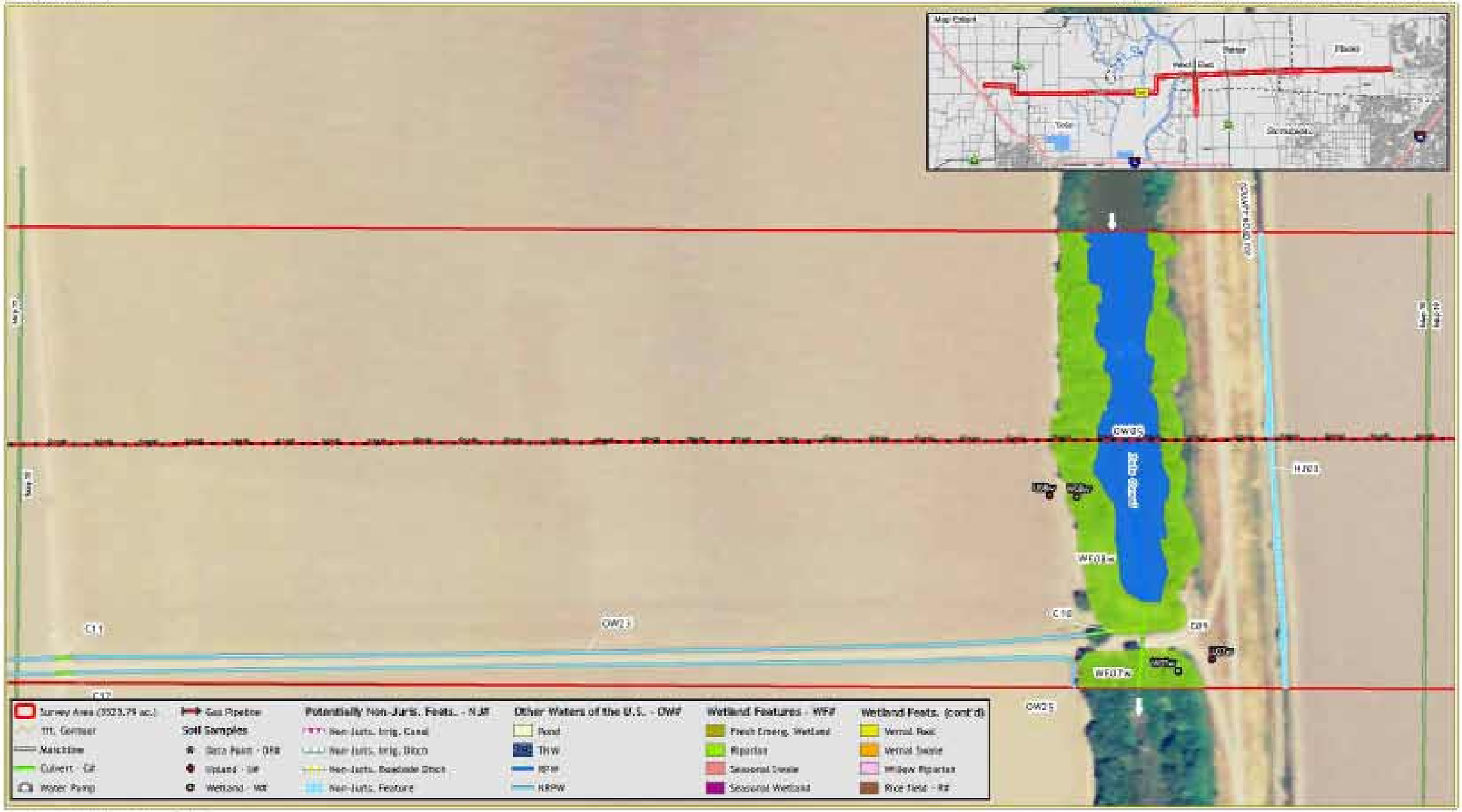
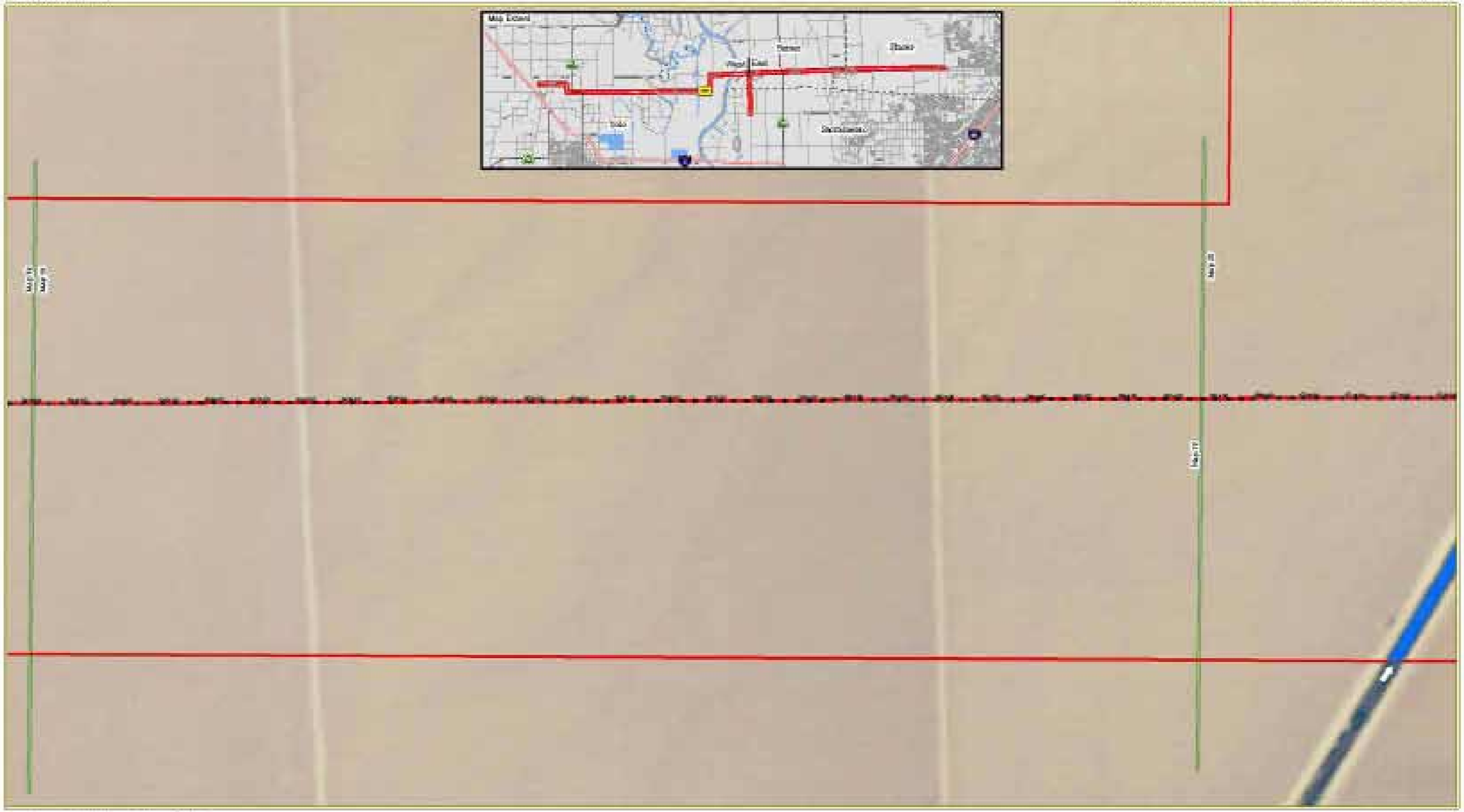
TTL Contour
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPR
Upland - UP
Wetland - WE
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Map Extent
Yolo
Sacramento
Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJ#
Other Waters of the U.S. - OW#
Wetland Features - WF#
Wetland Feats. (cont'd)
Soil Samples
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Culvert - C#
Water Pump
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

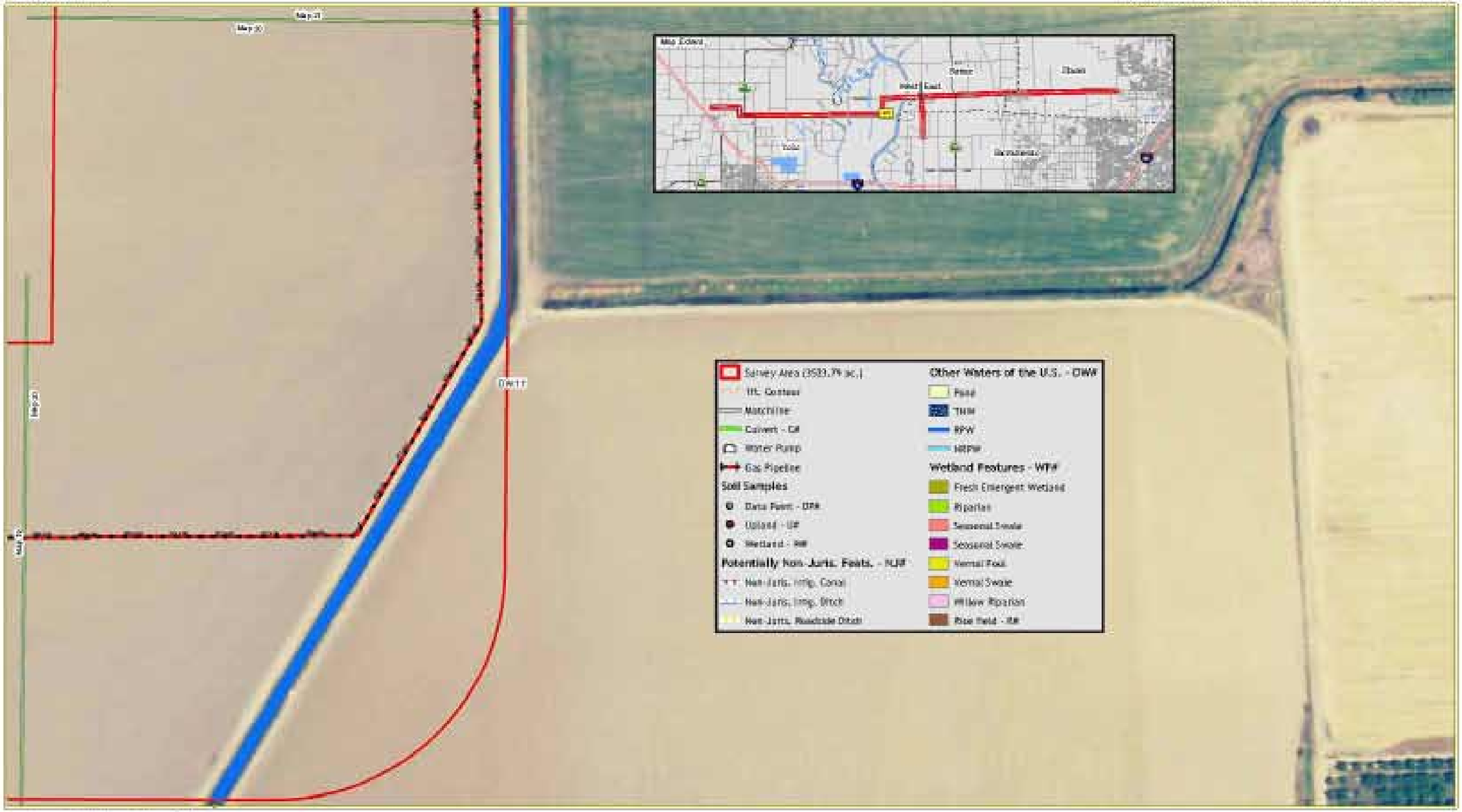

Map Extent
Yolo
Sacramento
Survey Area (3523.79 ac.)
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - U#
Wetland - W#
Potentially Non-Juris. Feats. - NJ#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OW#
Pond
TNW
RPW
NRPW
Wetland Features - WF#
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

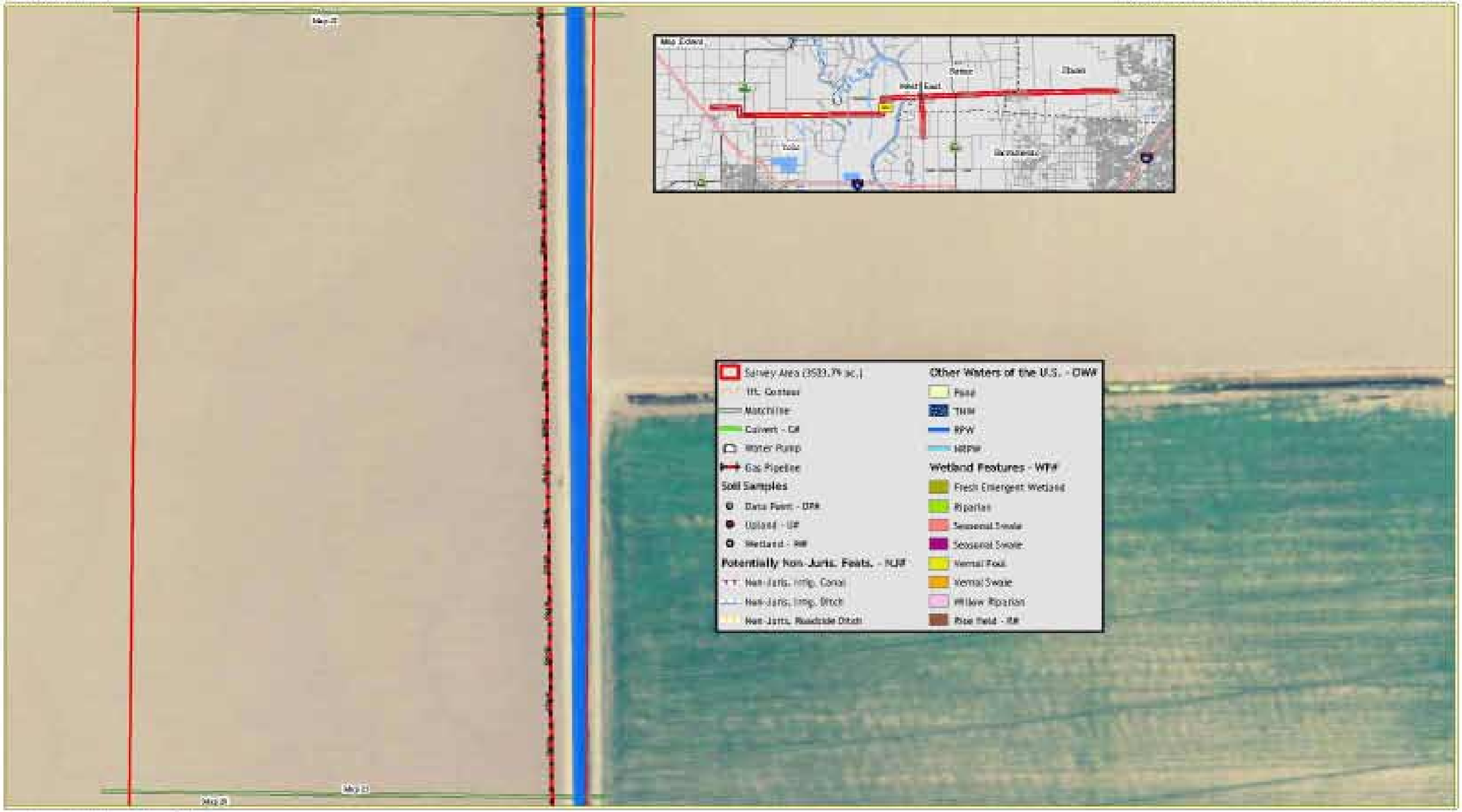

Map Extent
Yolo
Sacramento
Placer
Map 17
Map 18
Map 15
Map 16
DW27
C13
DW24
DW26
Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
Gas Pipeline
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
THW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Culvert - CLF
Water Pump
Feet
0
100
200
GALLAWAY
CONSULTING, INC.



GALLAWAY
CONSULTING, INC.


Map 21
Map 20
Map 22
Map 23
DW11
Map Extent
West East
Sutter
Yolo
Sacramento
Survey Area (3523.79 ac.)
Tft. Contour
Matchline
Culvert - C#
Water Pump
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - U#
Wetland - W#
Potentially Non-Juris. Feats. - NJ#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Other Waters of the U.S. - OW#
Pond
TNW
RPW
NRPW
Wetland Features - WF#
Fresh Emergent Wetland
Riparian
Seasonal Swale
Seasonal Swale
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.



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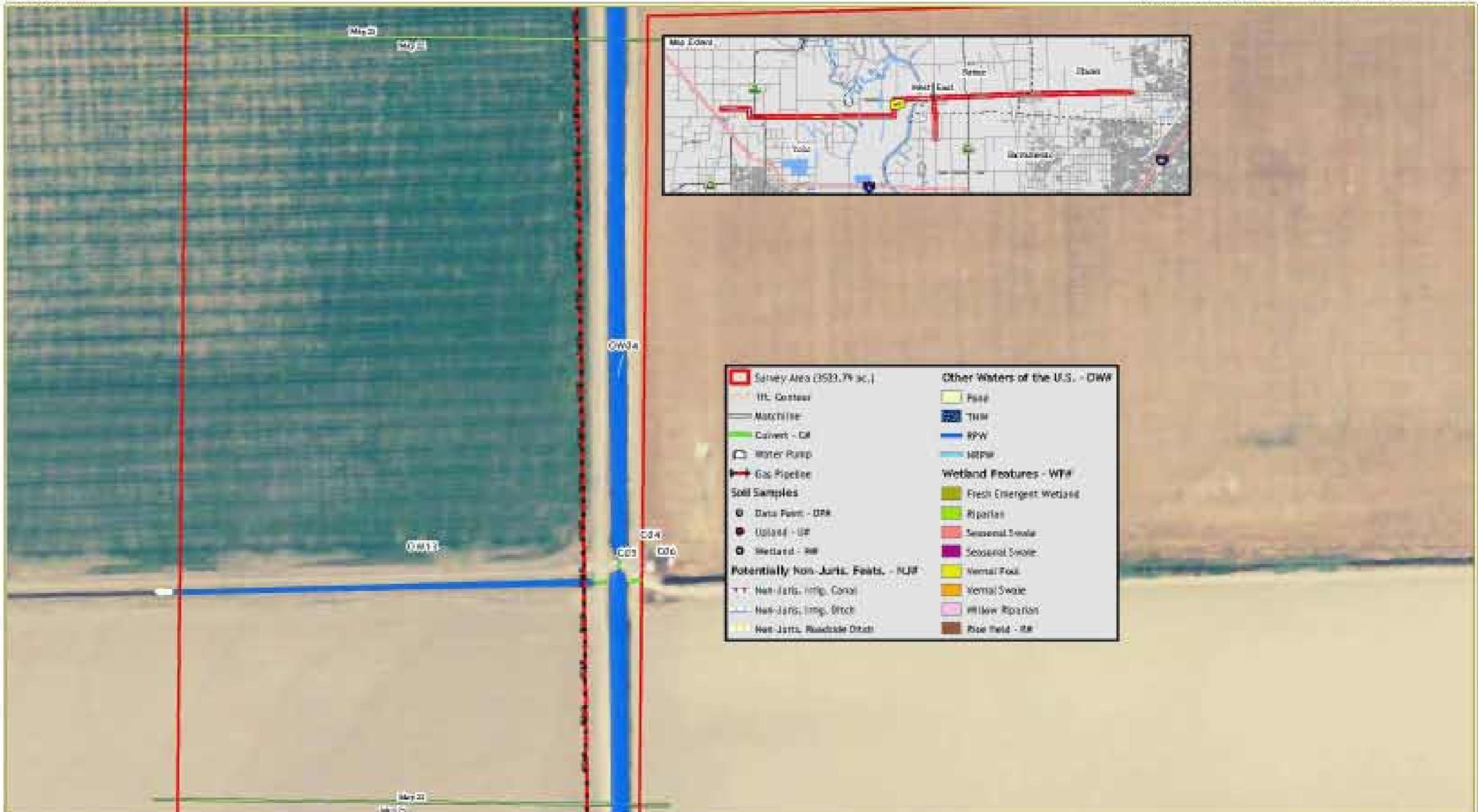
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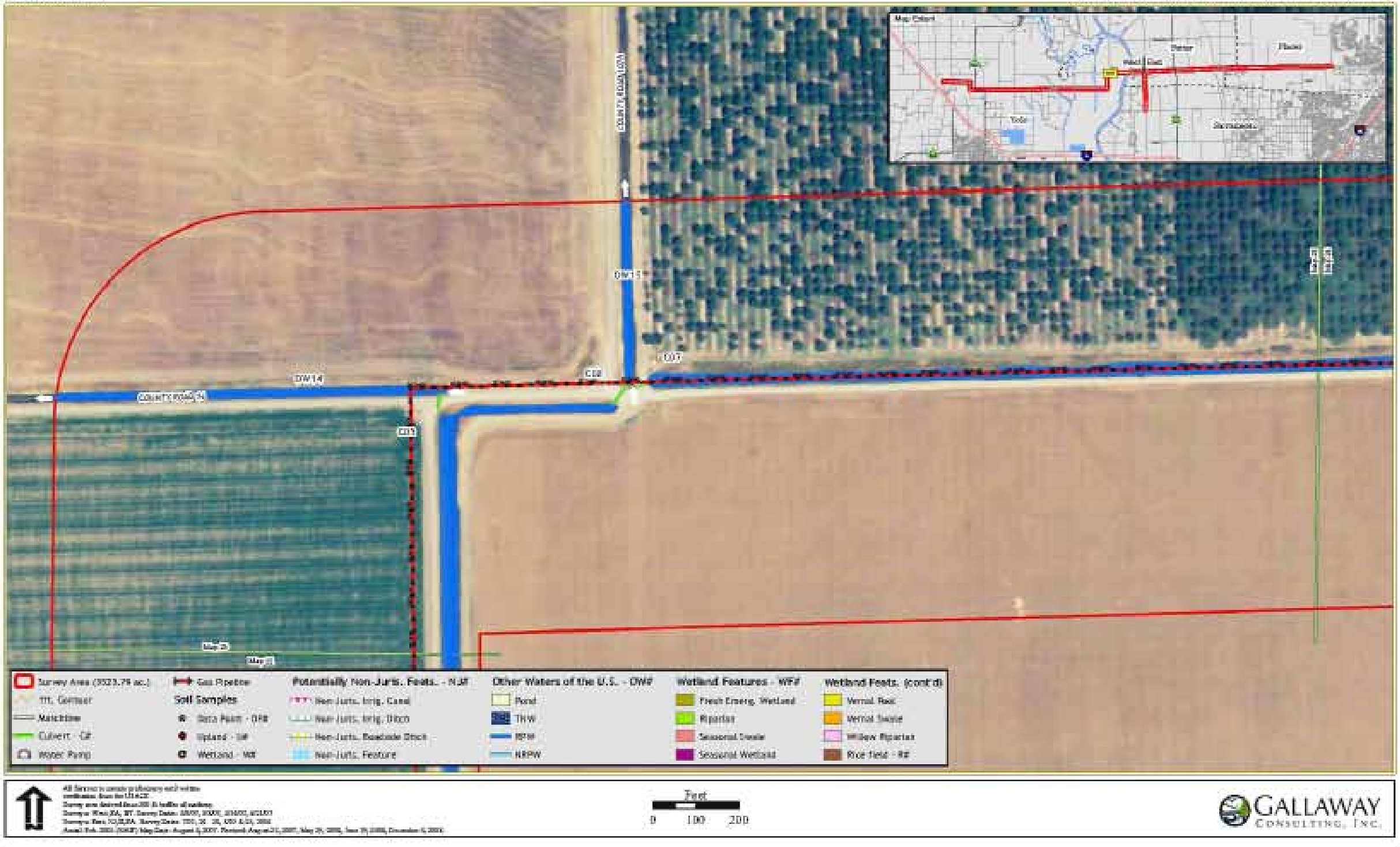
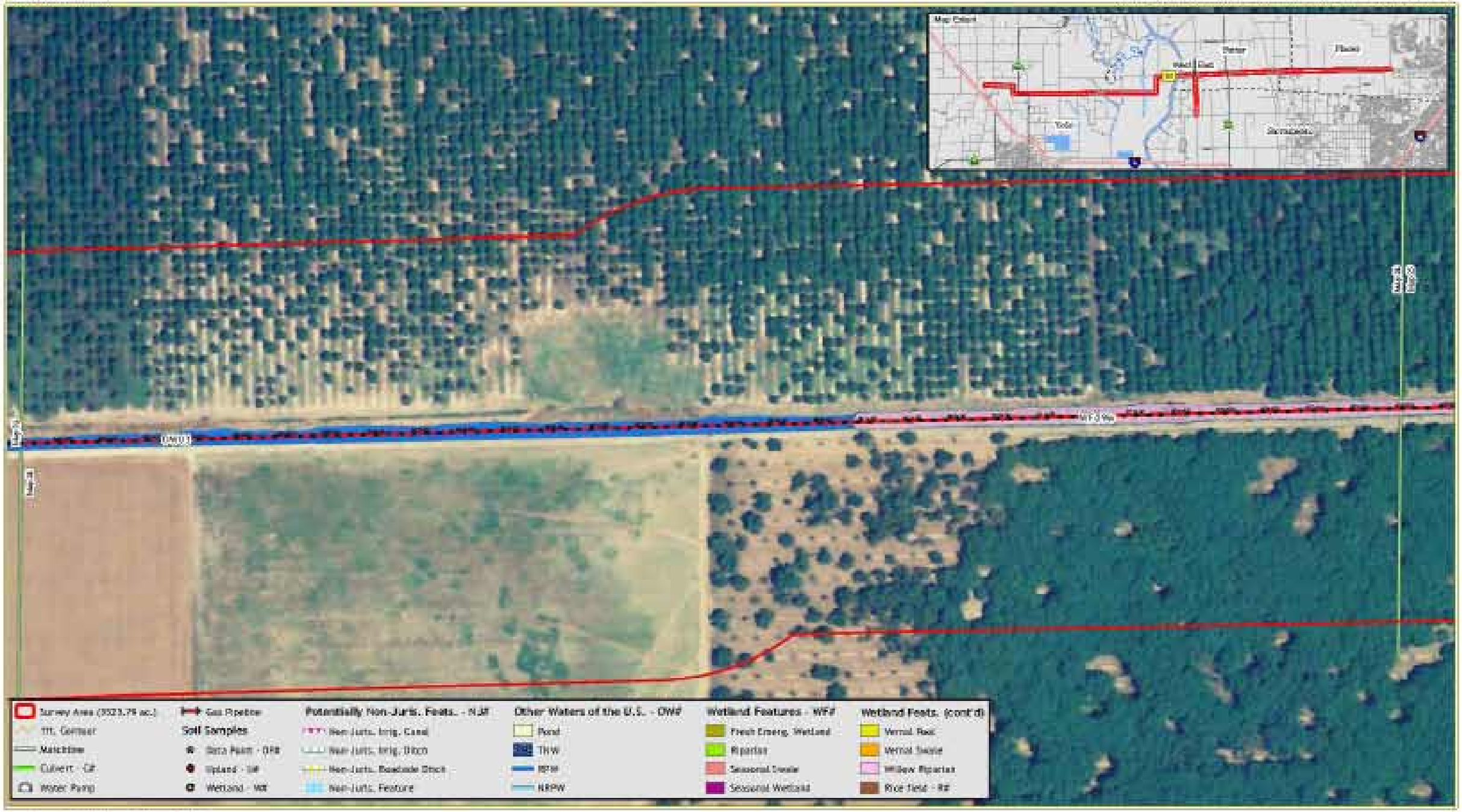
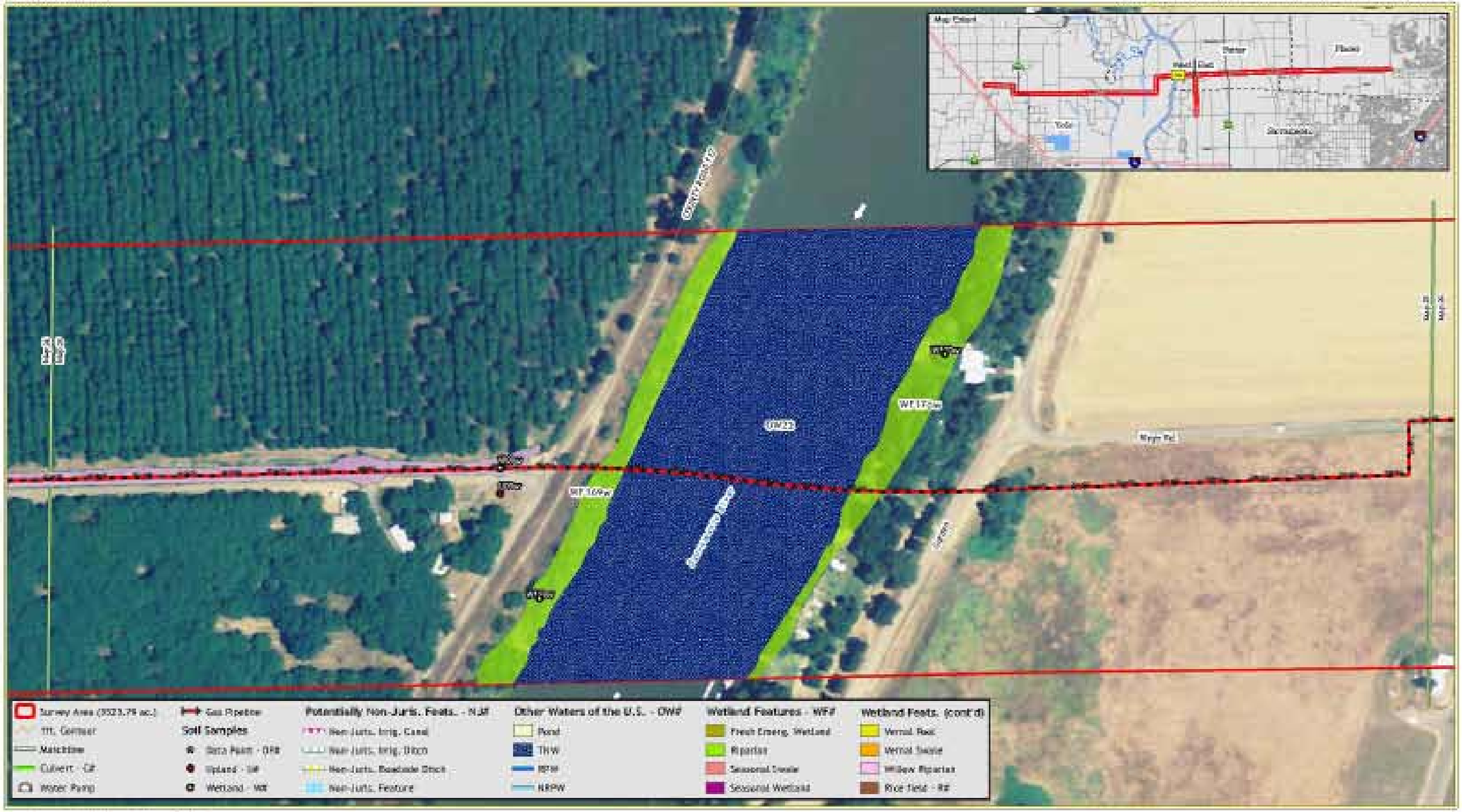
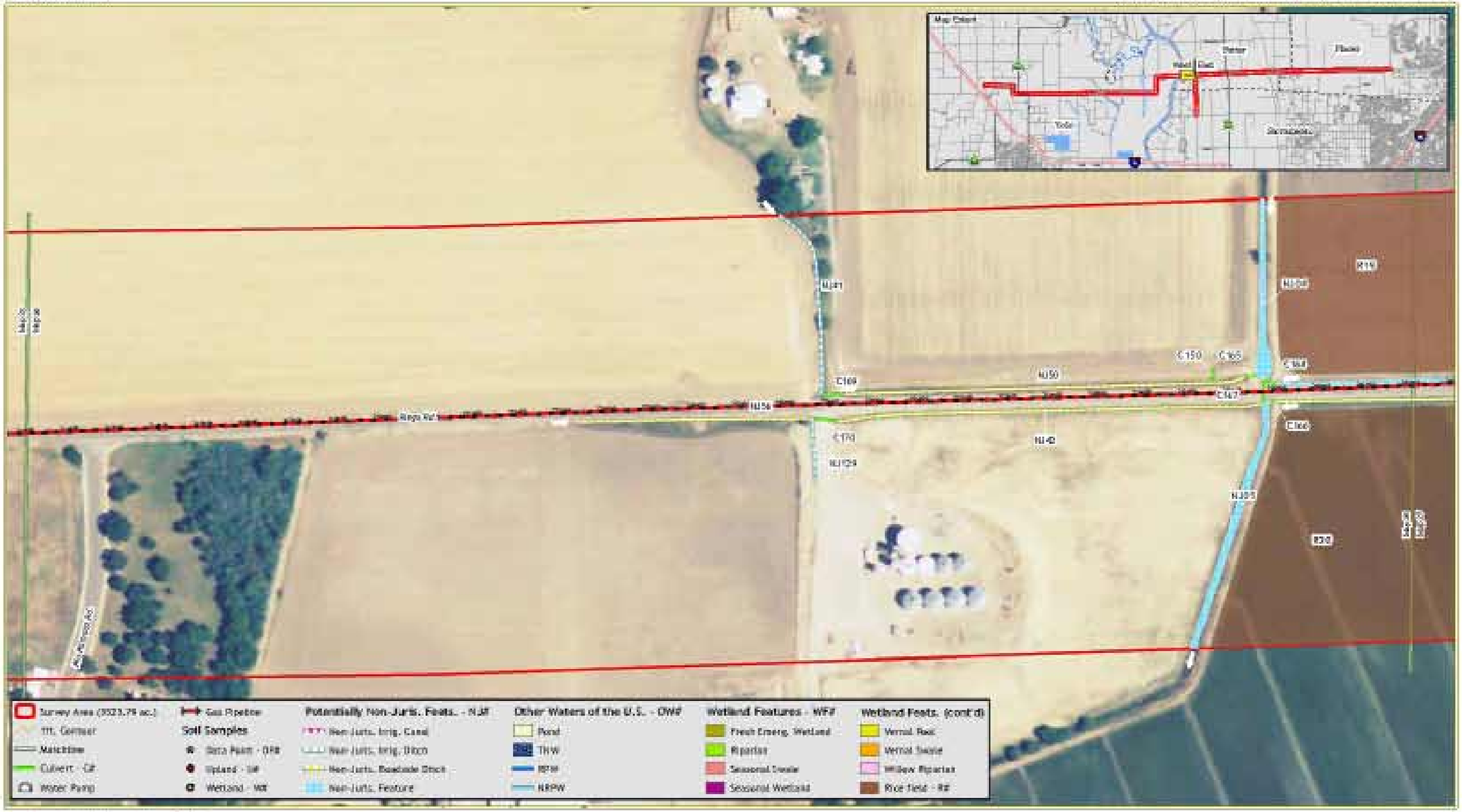
Tft. Contour
Matchline
Culvert - C#
Water Pump
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - U#
Wetland - W#
Potentially Non-Juris. Feats. - NJ#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Other Waters of the U.S. - OW#
Pond
TNW
RPW
NRPW
Wetland Features - WF#
Fresh Emergent Wetland
Riparian
Seasonal Swale
Seasonal Swale
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Map Extent
Yolo
Sacramento
Placer
DW14
DW15
C07
C08
COUNTY ROAD 24
Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJ#
Other Waters of the U.S. - OW#
Wetland Features - WF#
Wetland Feats. (cont'd)
Soil Samples
Data Point - DP#
Upland - U#
Wetland - W#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

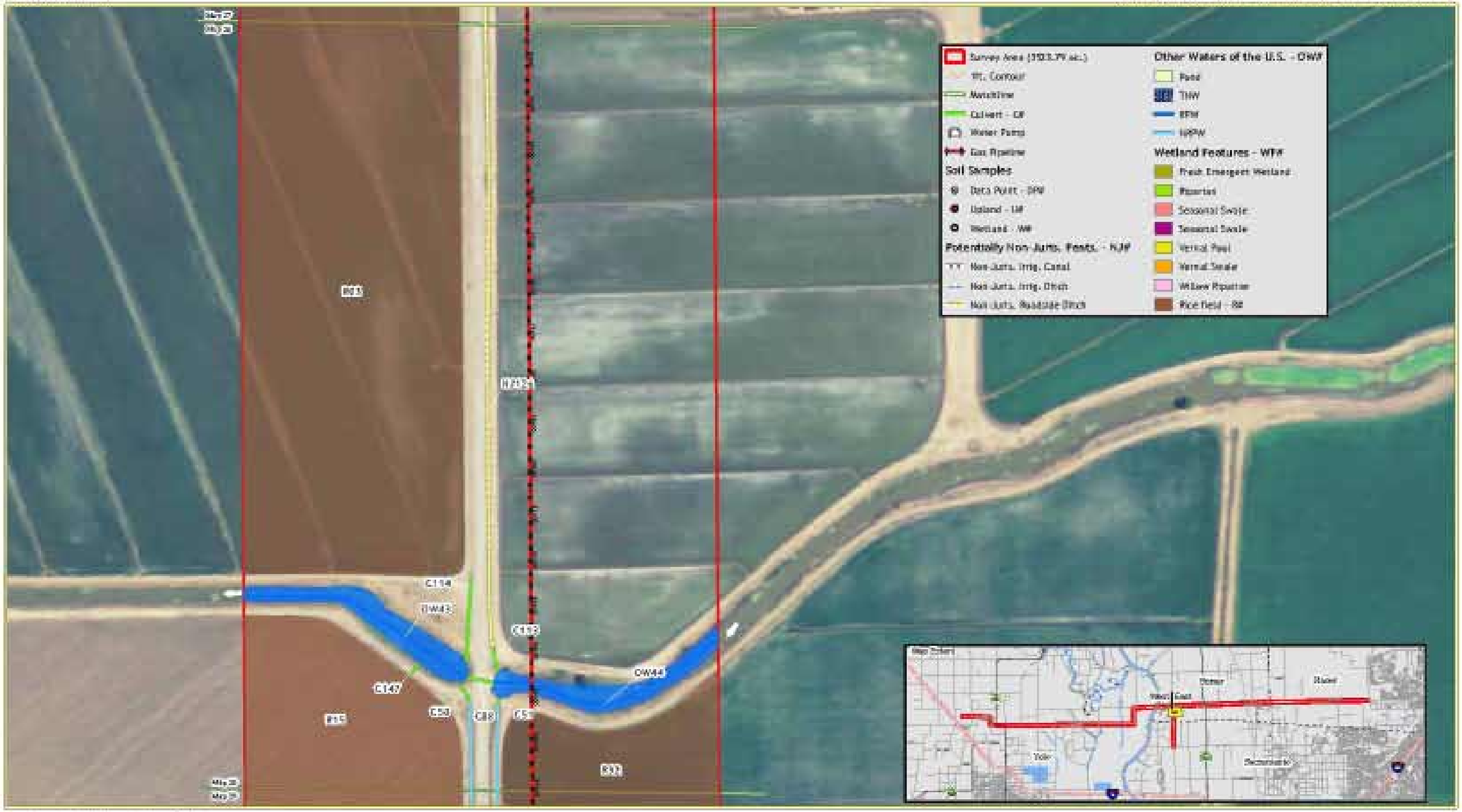

Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - Cul
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPR
Upland - Up
Wetland - Wt
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - Rif
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
TTL Centerline
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPR
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.



GALLAWAY CONSULTING, INC.

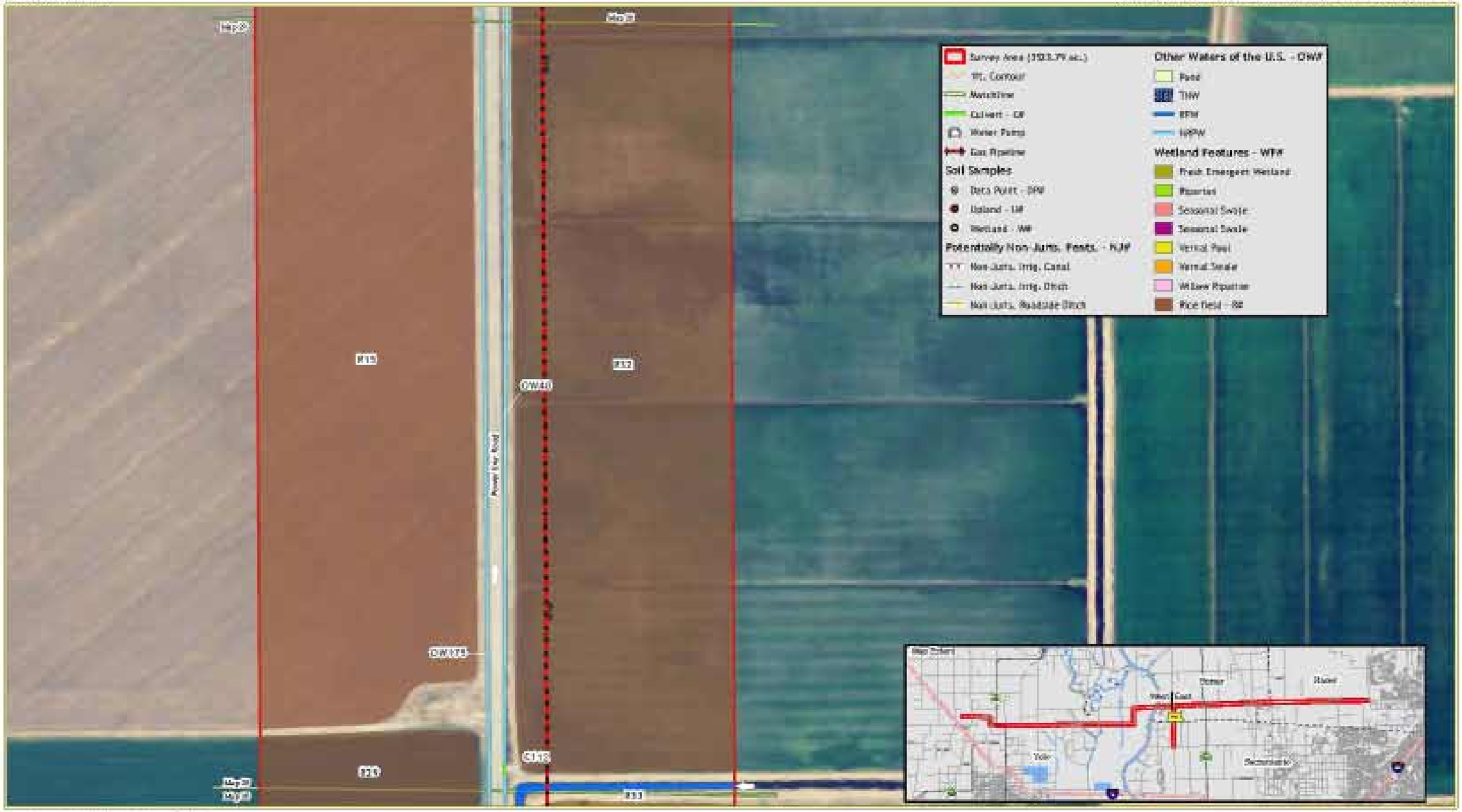
GALLAWAY
CONSULTING, INC.



Feet

0 100 200

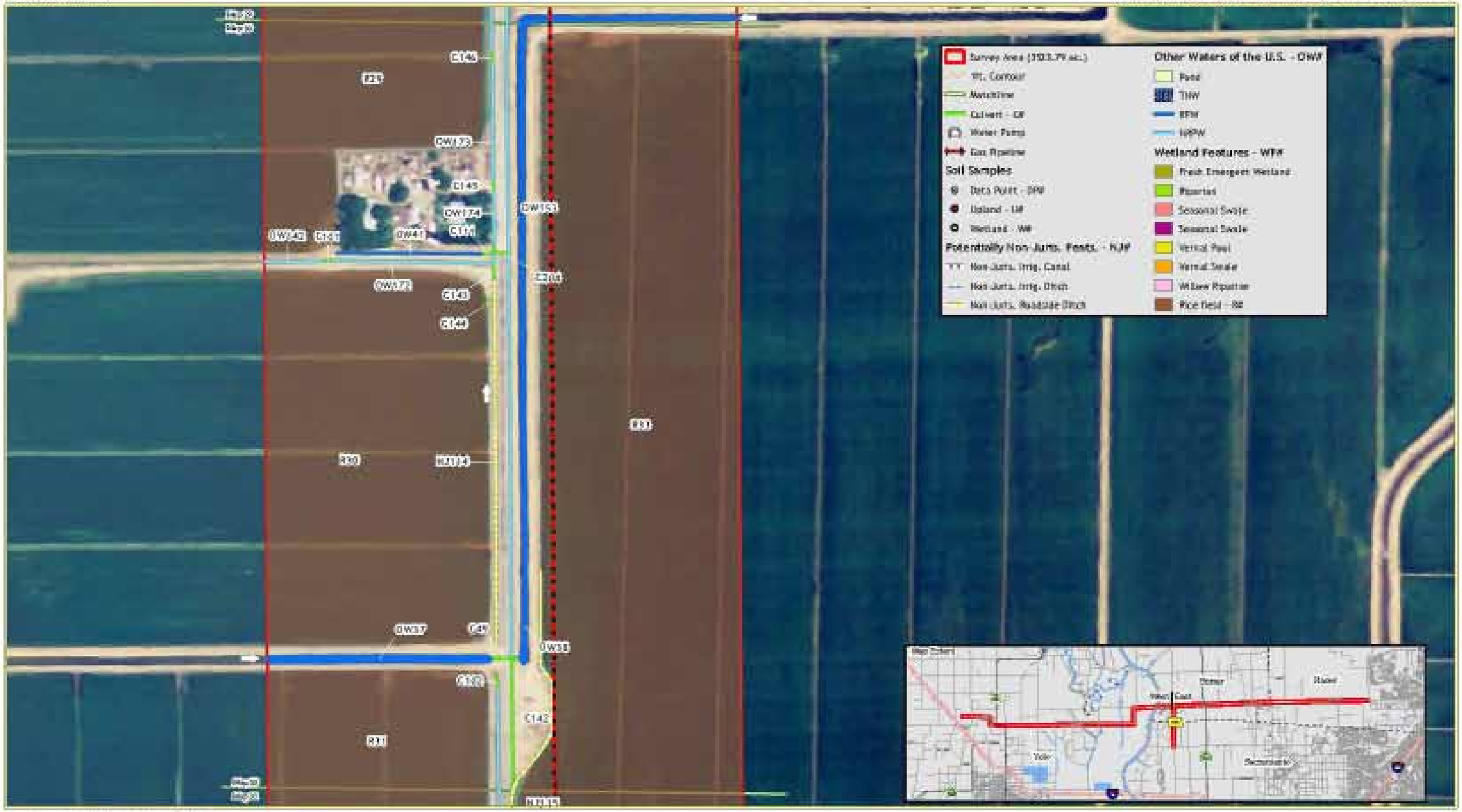
GALLAWAY CONSULTING, INC.

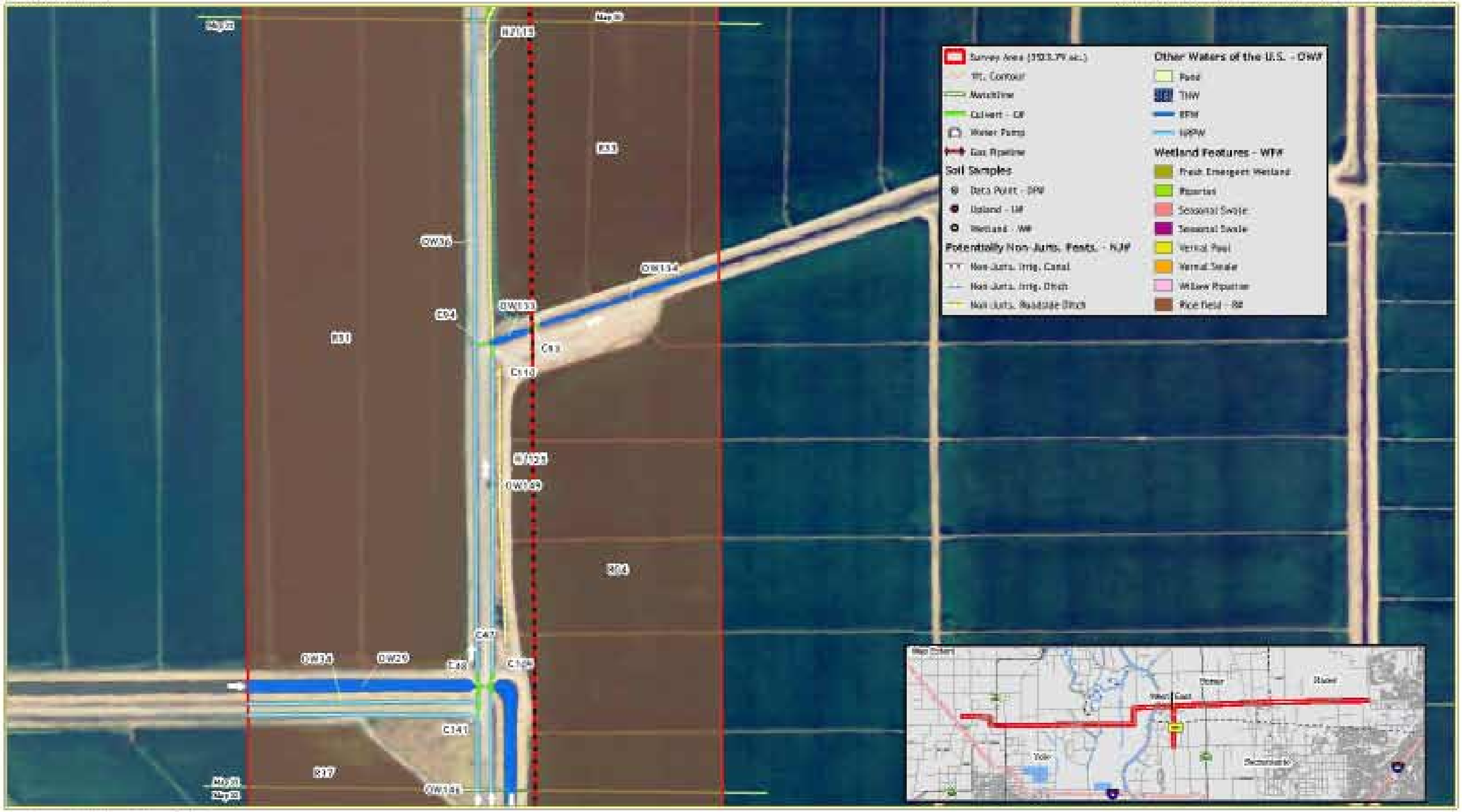


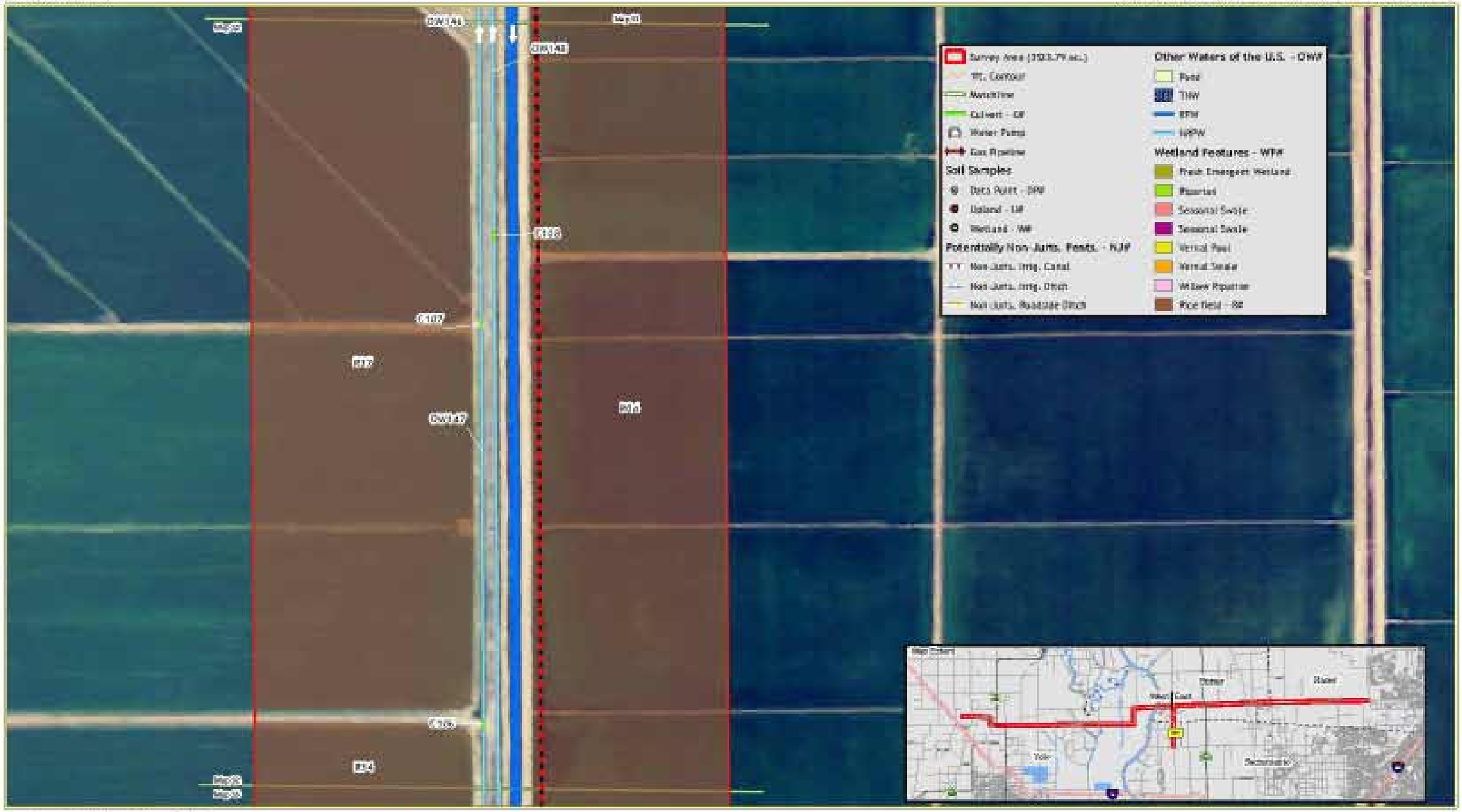
Feet

0 100 200

GALLAWAY CONSULTING, INC.

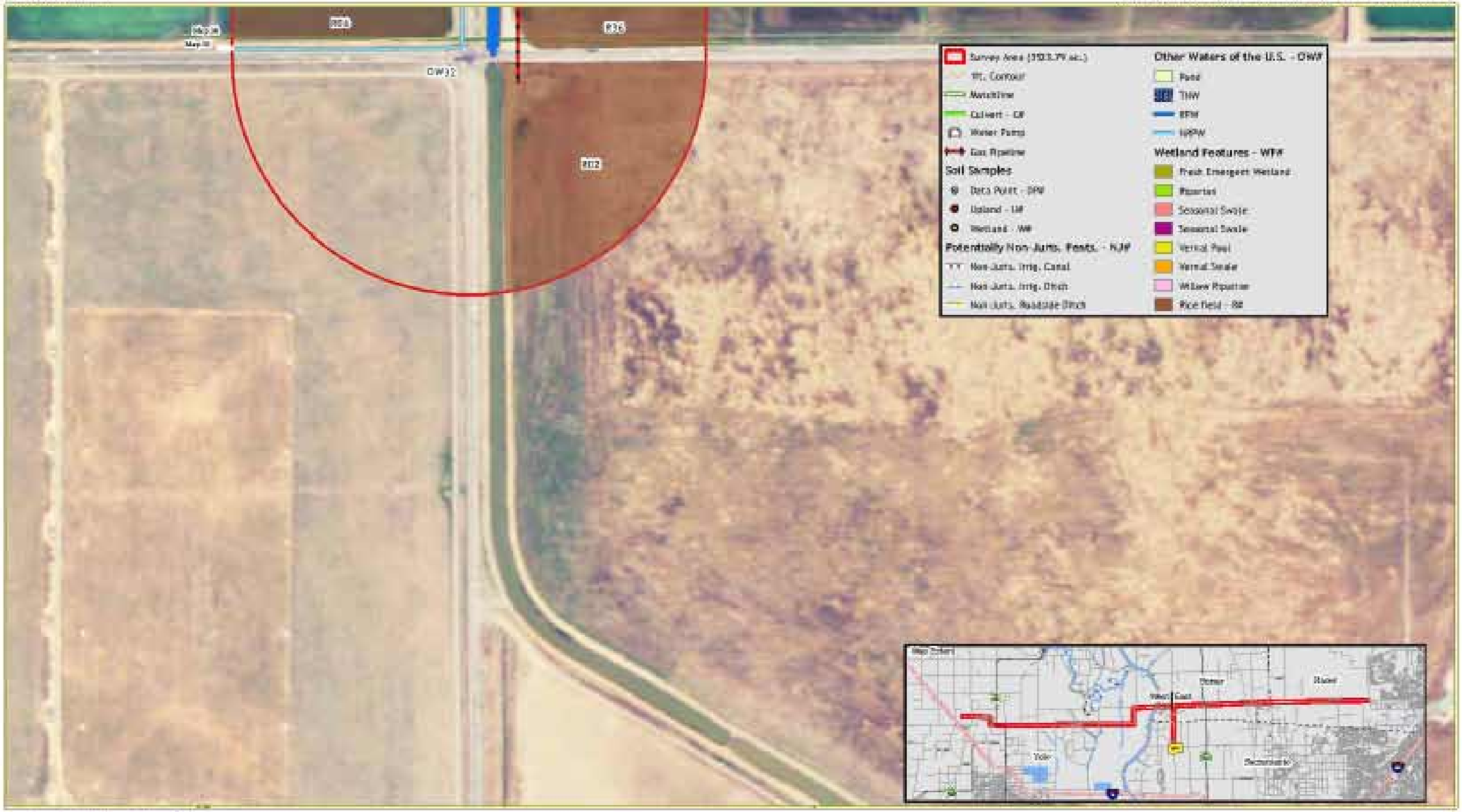

Survey Area (1503.79 ac.)
Ft. Contour
Aerialline
Culvert - CU
Water Points
Gas Pipeline
Soil Samples
Data Point - DPN
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NPW
Wetland Features - WFF
Fresh Emergent Wetland
Riparian
Seasonal Swale
Seasonal Swale
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
C145
C143
C144
C142
C141
C140
OW133
OW174
OW41
OW43
OW37
OW33
OW153
OW154
NJF14
NJF15
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (353.3 ft. ac.)
Ft. Contour
Watchline
Culvert - CF
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPW
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Other Waters of the U.S. - OWF
Pond
THW
RPW
NRPW
Wetland Features - WFF
Fresh Emergent Wetland
Riparian
Seasonal Swale
Seasonal Swale
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - RF
OW36
OW134
OW133
C04
C03
C110
OW149
C47
C48
C104
OW34
OW29
C141
OW141
Map Extent
Yolo
Sacramento
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (353.79 ac.)
Wt. Contour
Watchline
Culvert - CP
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPW
Upland - UW
Wetland - WW
Potentially Non-Juris. Feats. - NJW
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Other Waters of the U.S. - OWW
Pond
THW
RPW
NRPW
Wetland Features - WFW
Fresh Emergent Wetland
Riparian
Seasonal Swale
Seasonal Swale
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RW
OW148
OW147
C107
C106
Map Extent
Yolo
Sacramento
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

GALLAWAY CONSULTING, INC.

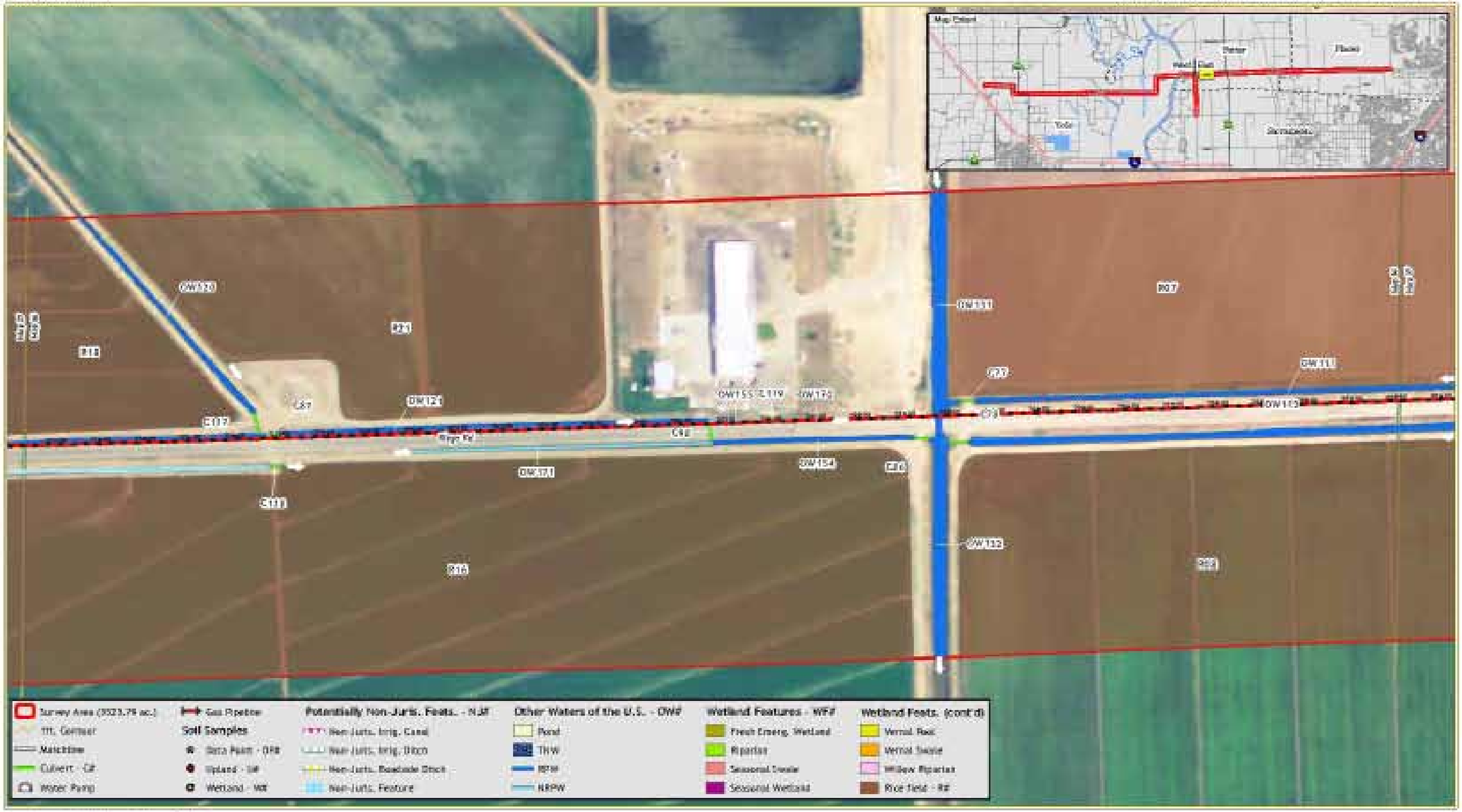
GALLAWAY CONSULTING, INC.



Feet

0 100 200

GALLAWAY CONSULTING, INC.


Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPR
Upland - UP
Wetland - WE
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJ#
Other Waters of the U.S. - OW#
Wetland Features - WF#
Wetland Feats. (cont'd)
Soil Samples
Culvert - C#
Water Pump
Data Point - DP#
Upland - U#
Wetland - W#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - CP
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WPF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.

Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJF
Other Waters of the U.S. - OWF
Wetland Features - WFF
Wetland Feats. (cont'd)
Soil Samples
Data Point - DPF
Upland - UP
Wetland - WF
Culvert - CF
Water Pump
Pond
THW
BPW
HWPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
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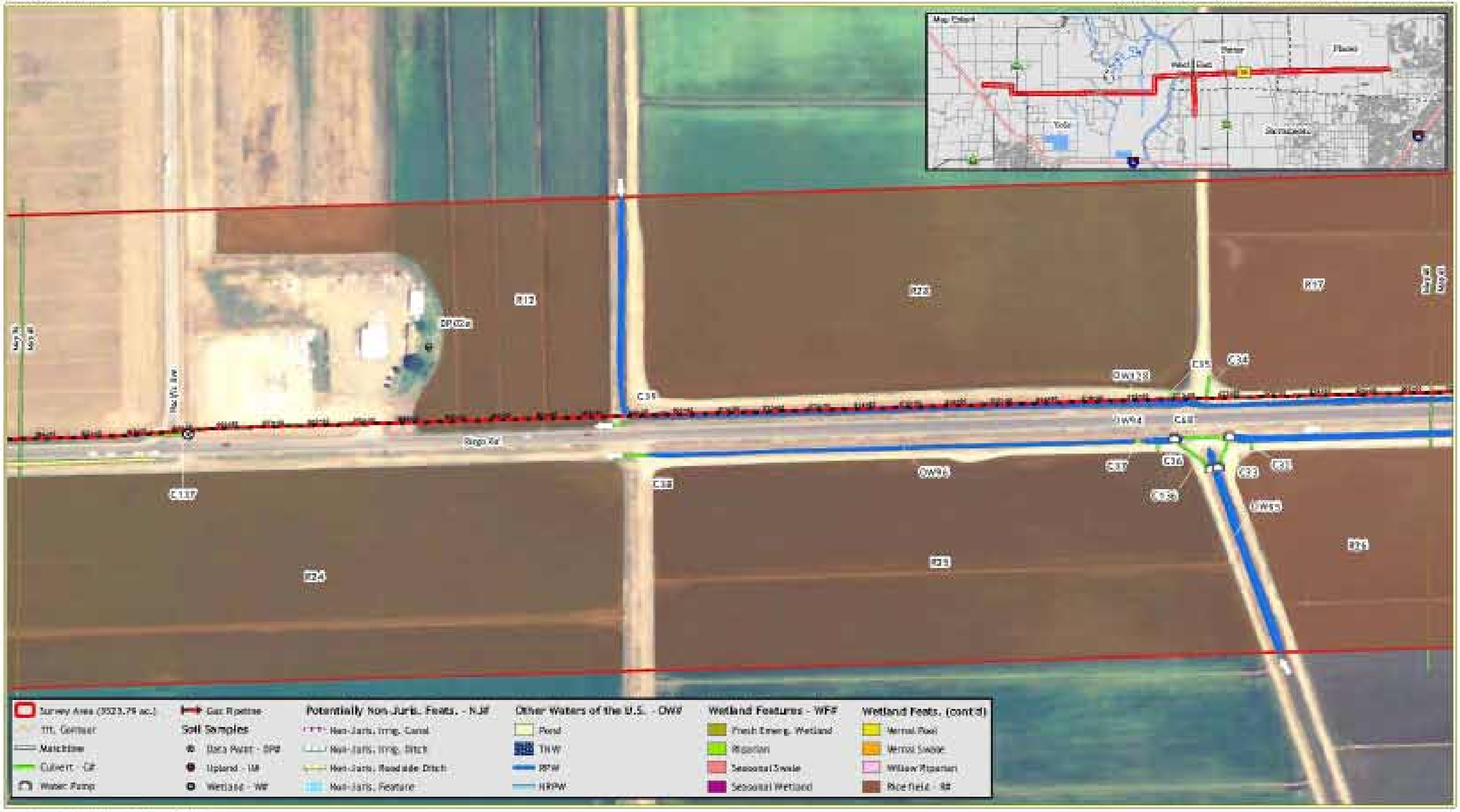
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WPF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0 100 200
GALLAWAY
CONSULTING, INC.

Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJF
Other Waters of the U.S. - OWF
Wetland Features - WFF
Wetland Feats. (cont'd)
Soil Samples
Data Point - DPF
Upland - UP
Wetland - WF
Culvert - CF
Water Pump
Pond
THW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
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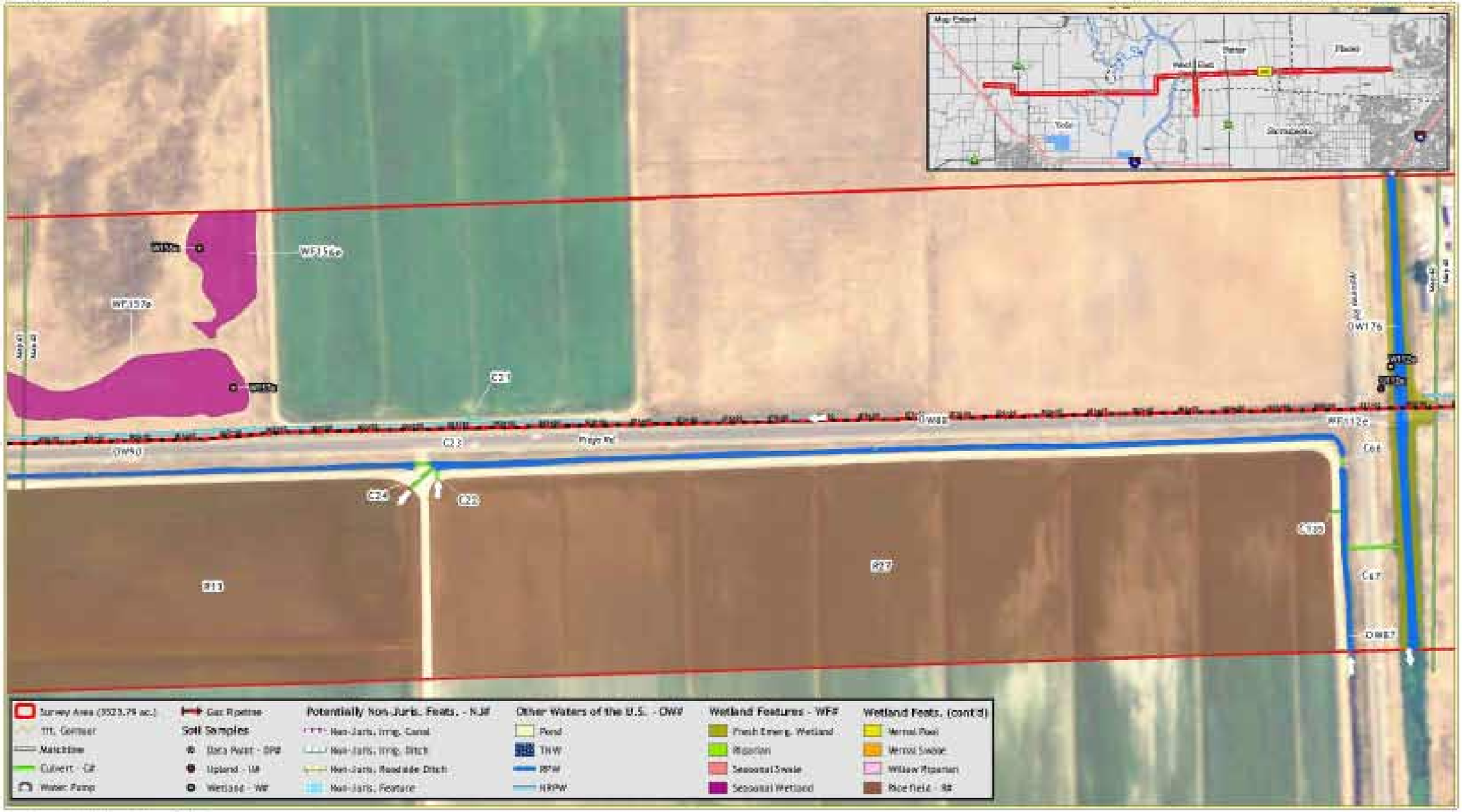
GALLAWAY
CONSULTING, INC.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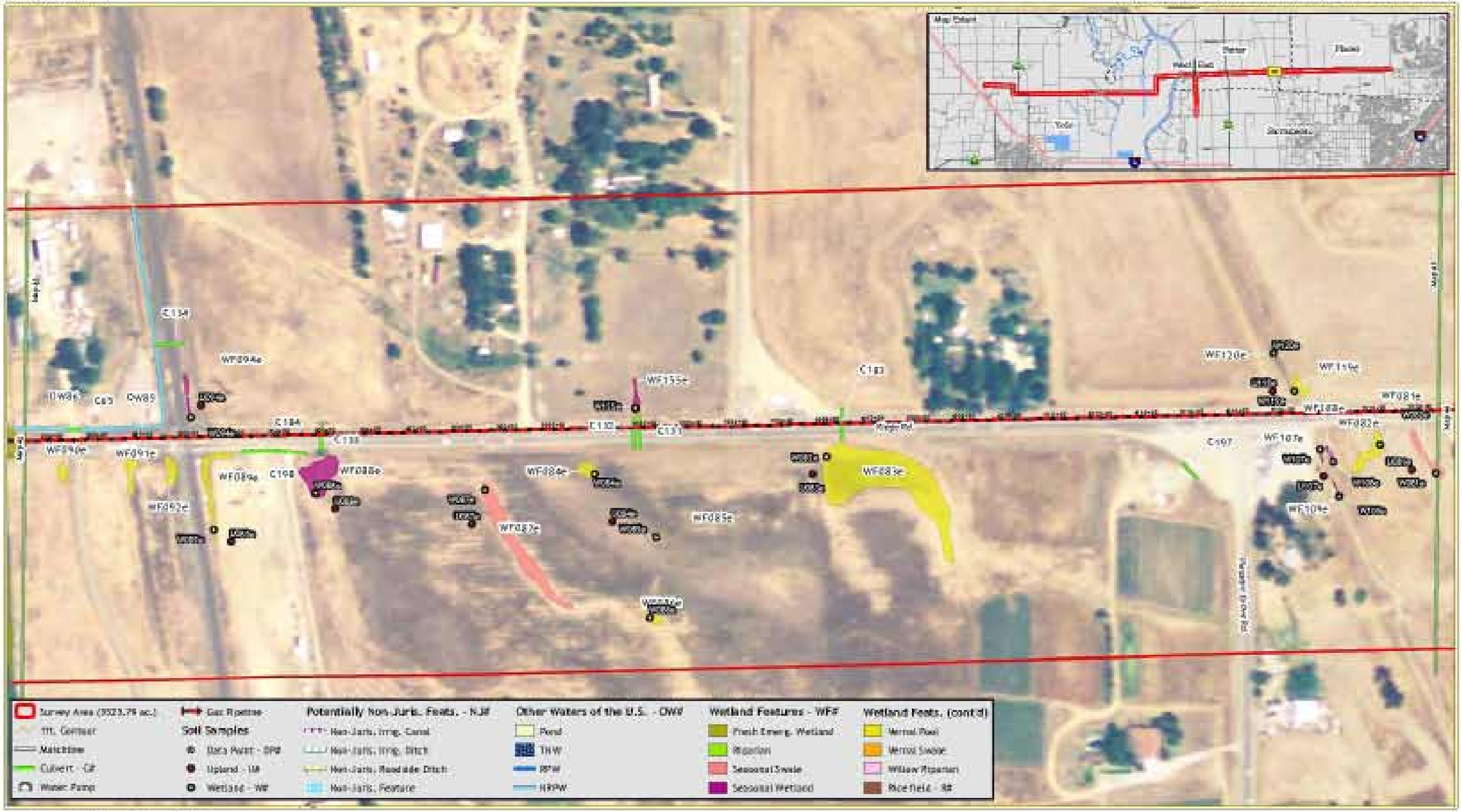
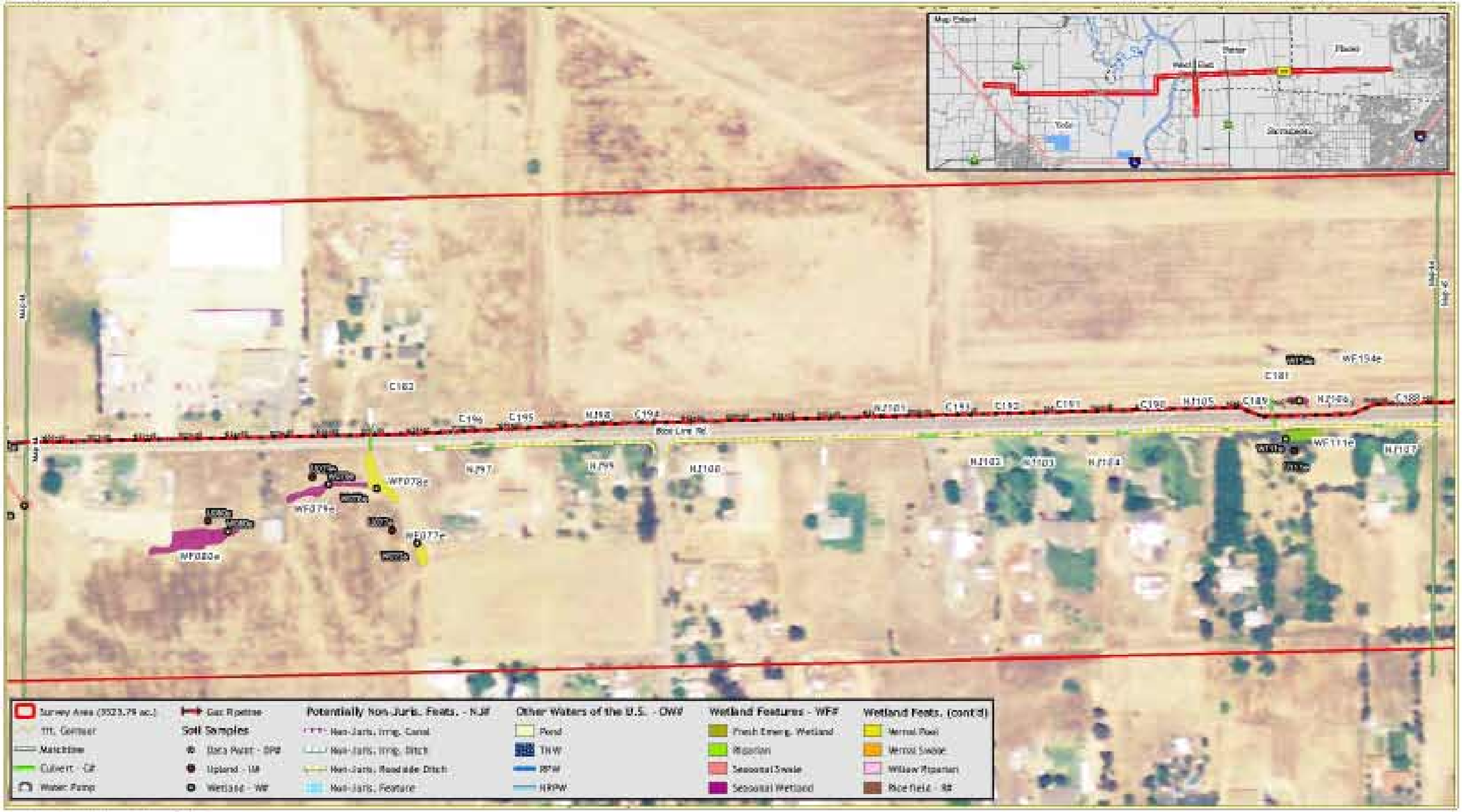
WF157a
C3
OW176
WF122
OW80
C23
Pogo Rd
C24
C25
C26
C27
OW87
313
Survey Area (3523.79 ac.)
TTL Centerline
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - UP
Wetland - WF
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - RF
Culvert - CUL
Water Pump
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Map Extent
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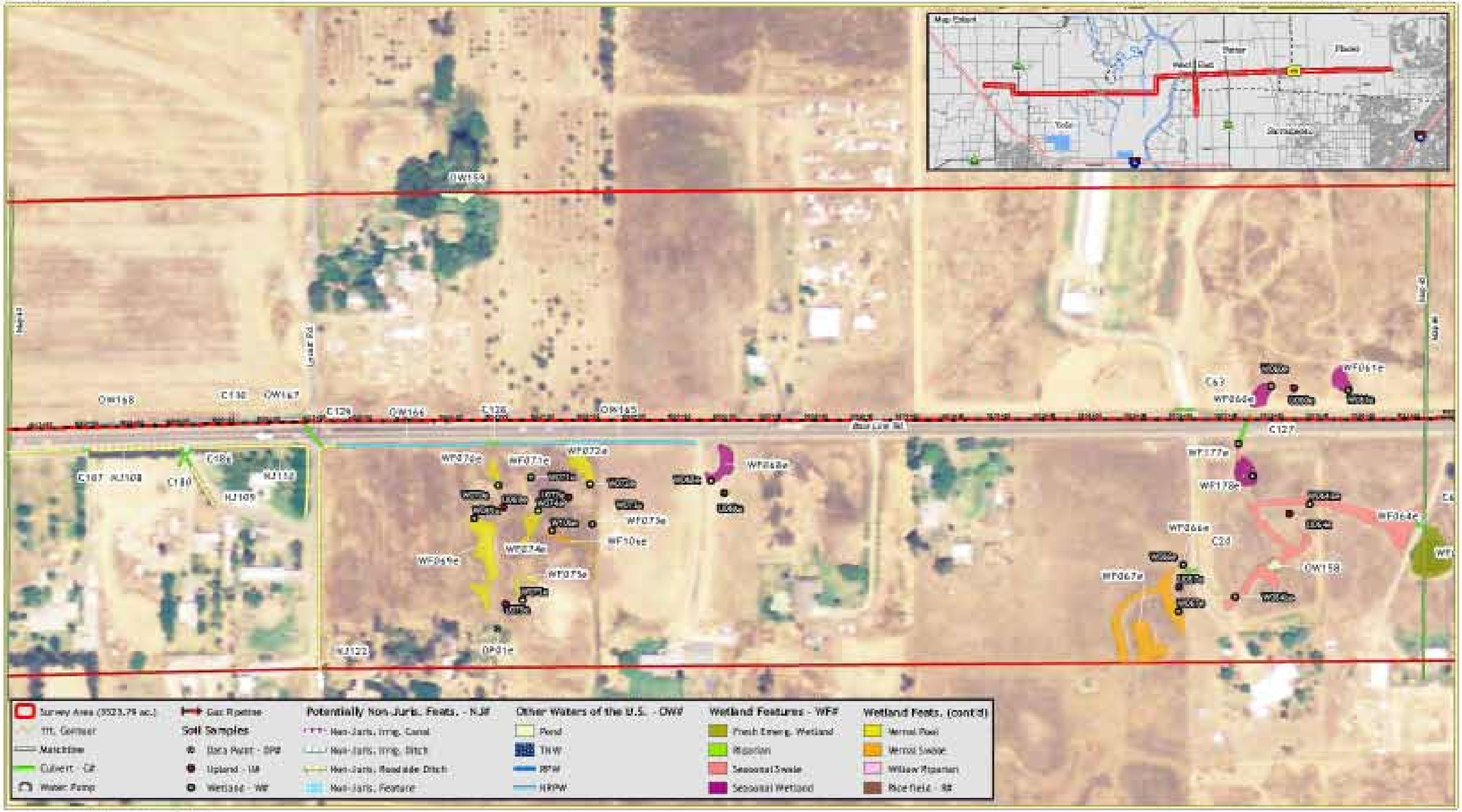
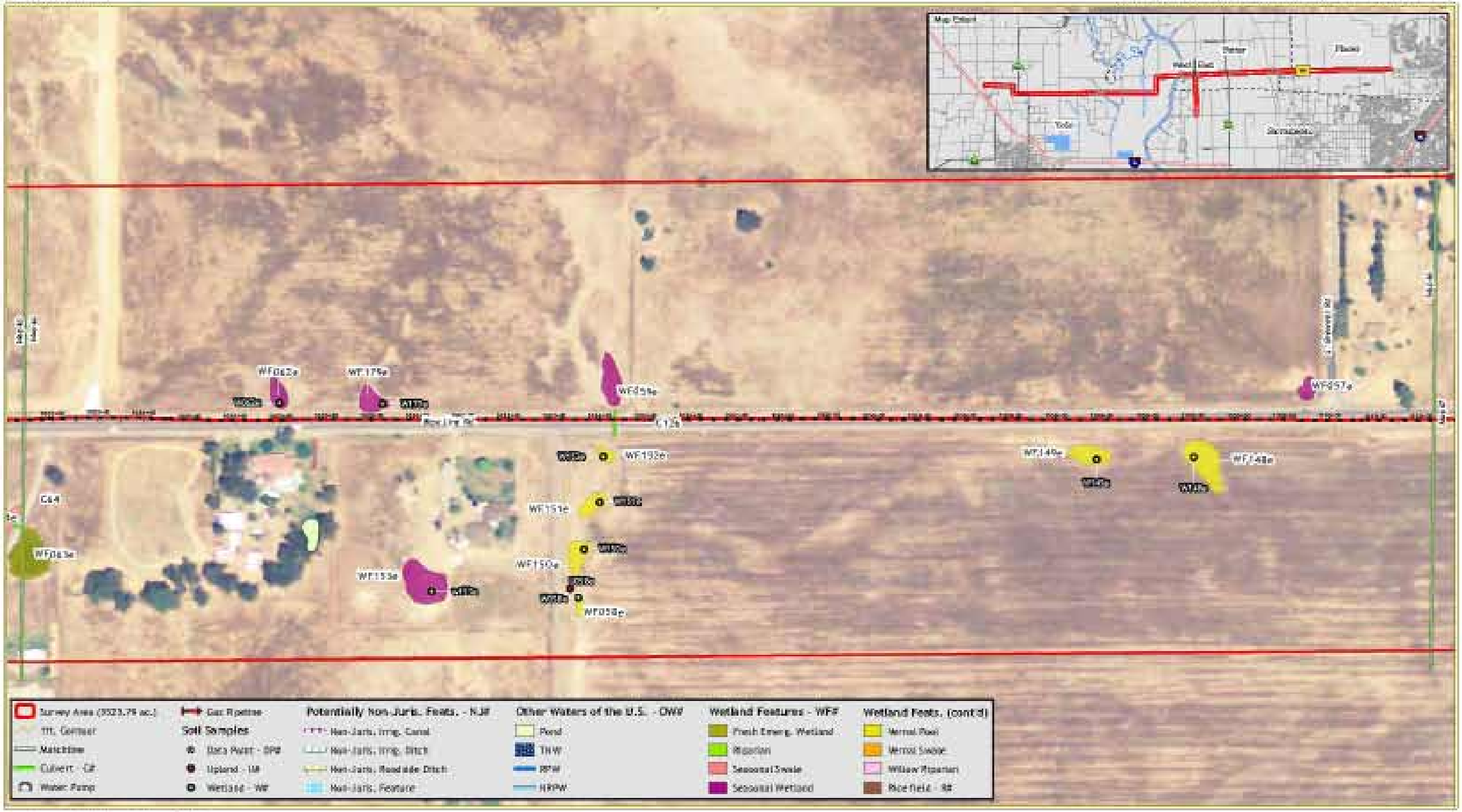
Sacramento
Placer
Rice Line Rd
C182
C196
C195
HJ98
C194
HJ101
C193
C192
C191
C190
HJ105
C189
HJ106
C188
C181
WF194e
WF111e
HJ107
HJ102
HJ103
HJ104
HJ100
HJ99
HJ97
WF078e
WF079e
WF077e
WF080e
Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJ#
Other Waters of the U.S. - OW#
Wetland Features - WF#
Wetland Feats. (cont'd)
Soil Samples
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJF
Other Waters of the U.S. - OWF
Wetland Features - WFF
Wetland Feats. (cont'd)
Soil Samples
Data Point - DPF
Upland - UF
Wetland - WF
Culvert - CF
Water Pump
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.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WF179e
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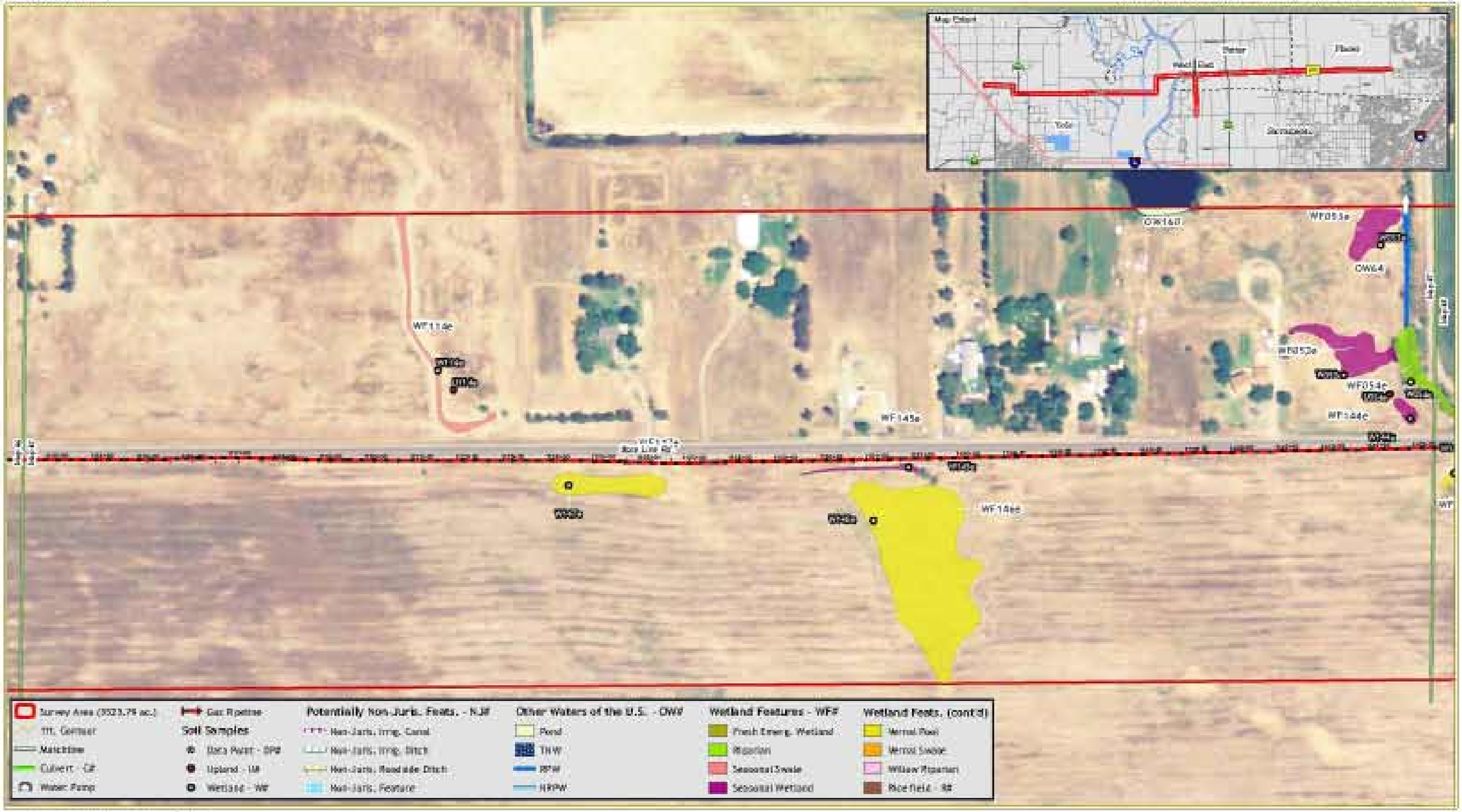
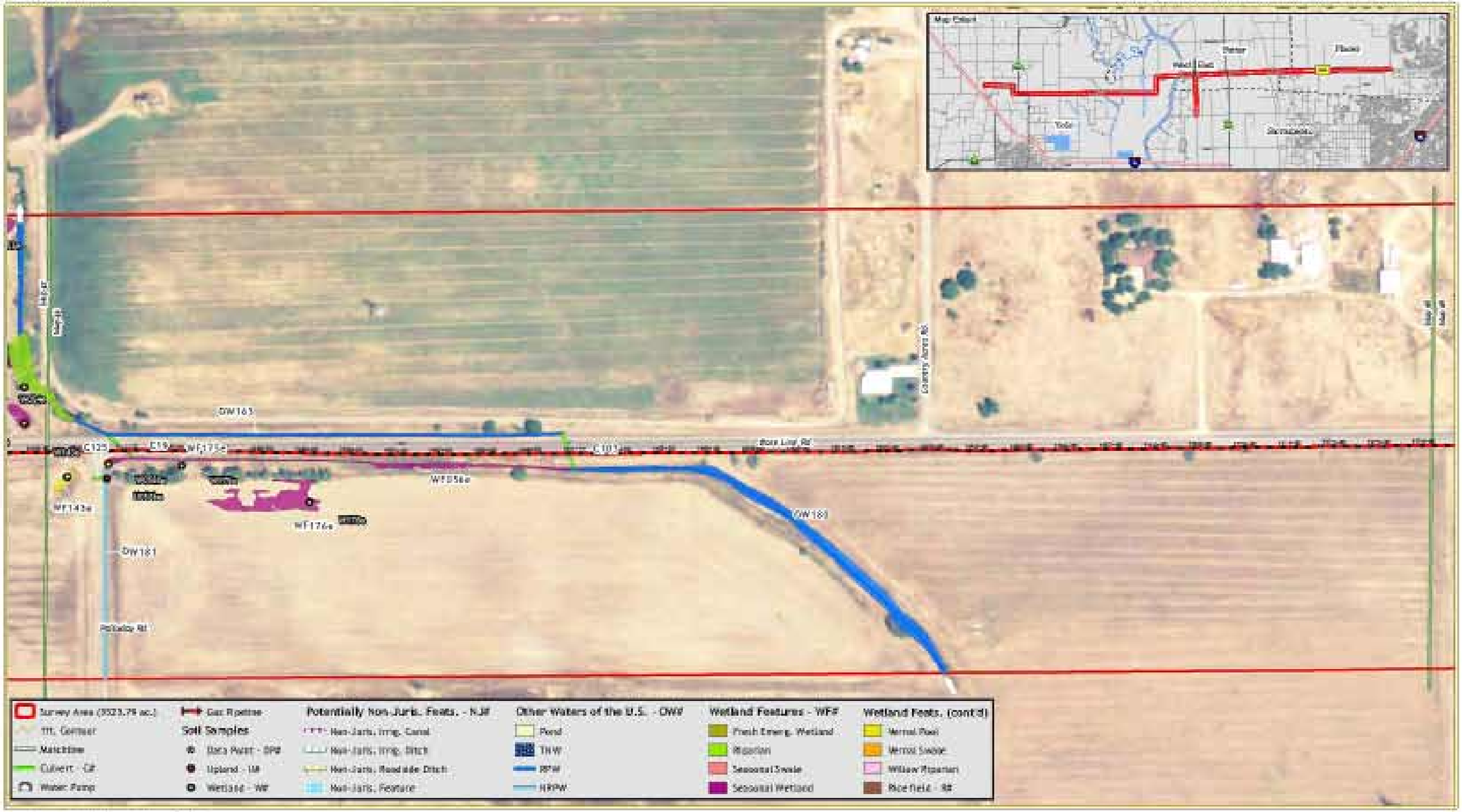
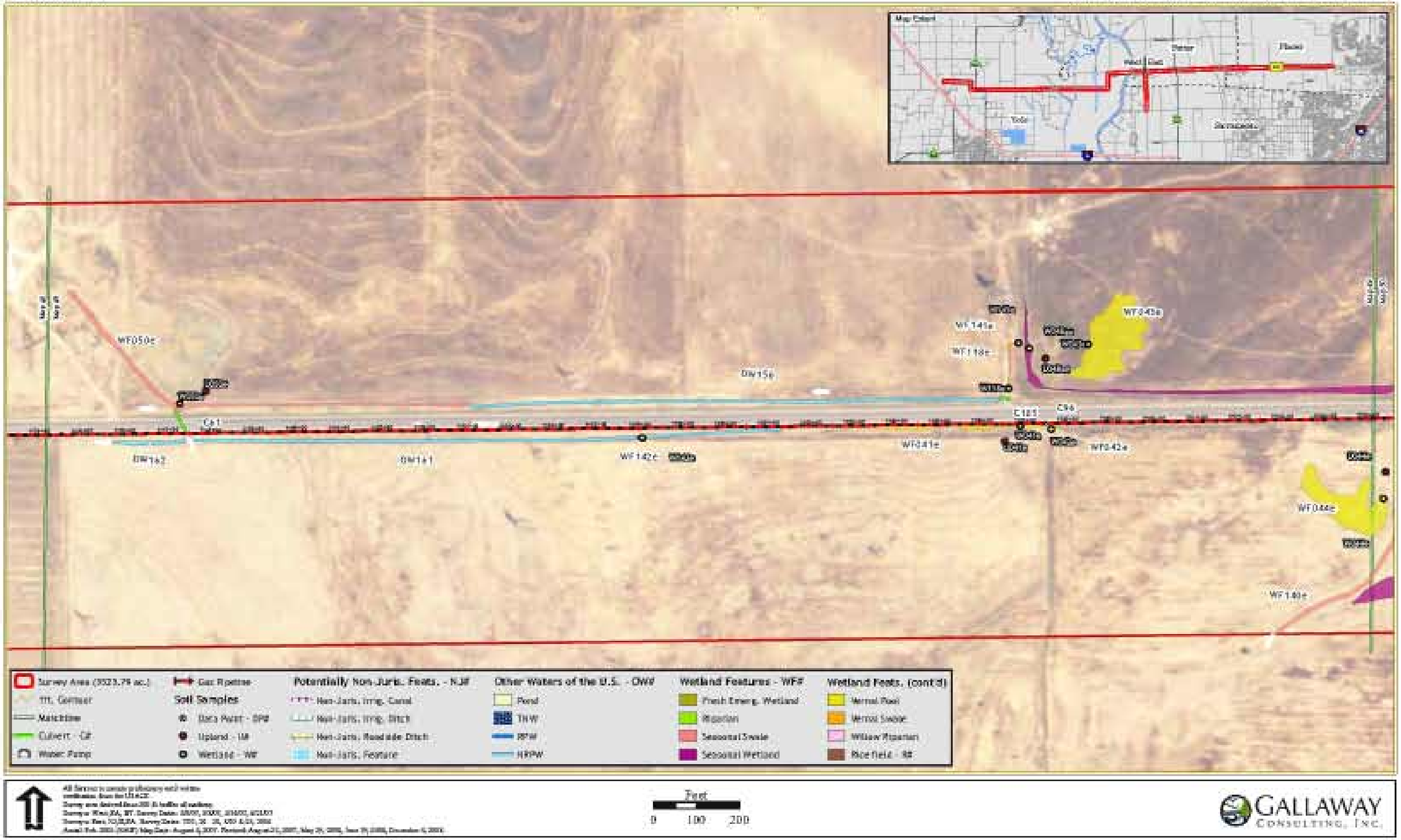
WF193e
WF149e
WF148e
WF151e
WF150e
WF153e
WF058e
WF063e
C64
Survey Area (3523.79 ac.)
Gas Pipeline
Potentially non-Juris. Feats. - NJF
Other Waters of the U.S. - OWF
Wetland Features - WFF
Wetland Feats. (cont'd)
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


OW160
WF053e
OW64
WF114e
WF052e
WF054e
WF144e
WF145e
WF146e
Survey Area (3523.79 ac.)
TTL Centerline
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - UP
Wetland - WF
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OW#
Pond
THW
RPW
NRPW
Wetland Features - WF#
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Map Detail
Dunnigan
Yolo
Sacramento
County Farm Rd
Rice Line Rd
Pelleday Rd
DW183
DW181
C125
C19
WF176e
C101
WF056e
WF143e
WF176e
Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJF
Other Waters of the U.S. - OWF
Wetland Features - WFF
Wetland Feats. (cont'd)
TTL Contour
Soil Samples
Non-Juris. Irrig. Canal
Pond
Fresh Emerg. Wetland
Vernal Pool
Matchline
Data Point - DPF
Non-Juris. Irrig. Ditch
THW
Riparian
Vernal Swale
Culvert - CIF
Upland - UP
Non-Juris. Roadside Ditch
RPW
Seasonal Swale
Willow Riparian
Water Pump
Wetland - WF
Non-Juris. Feature
NRPW
Seasonal Wetland
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Map Extent
Yolo
Sacramento
Placer
WF050e
DW15e
WF141e
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WF043e
C101
C96
C61
DW162
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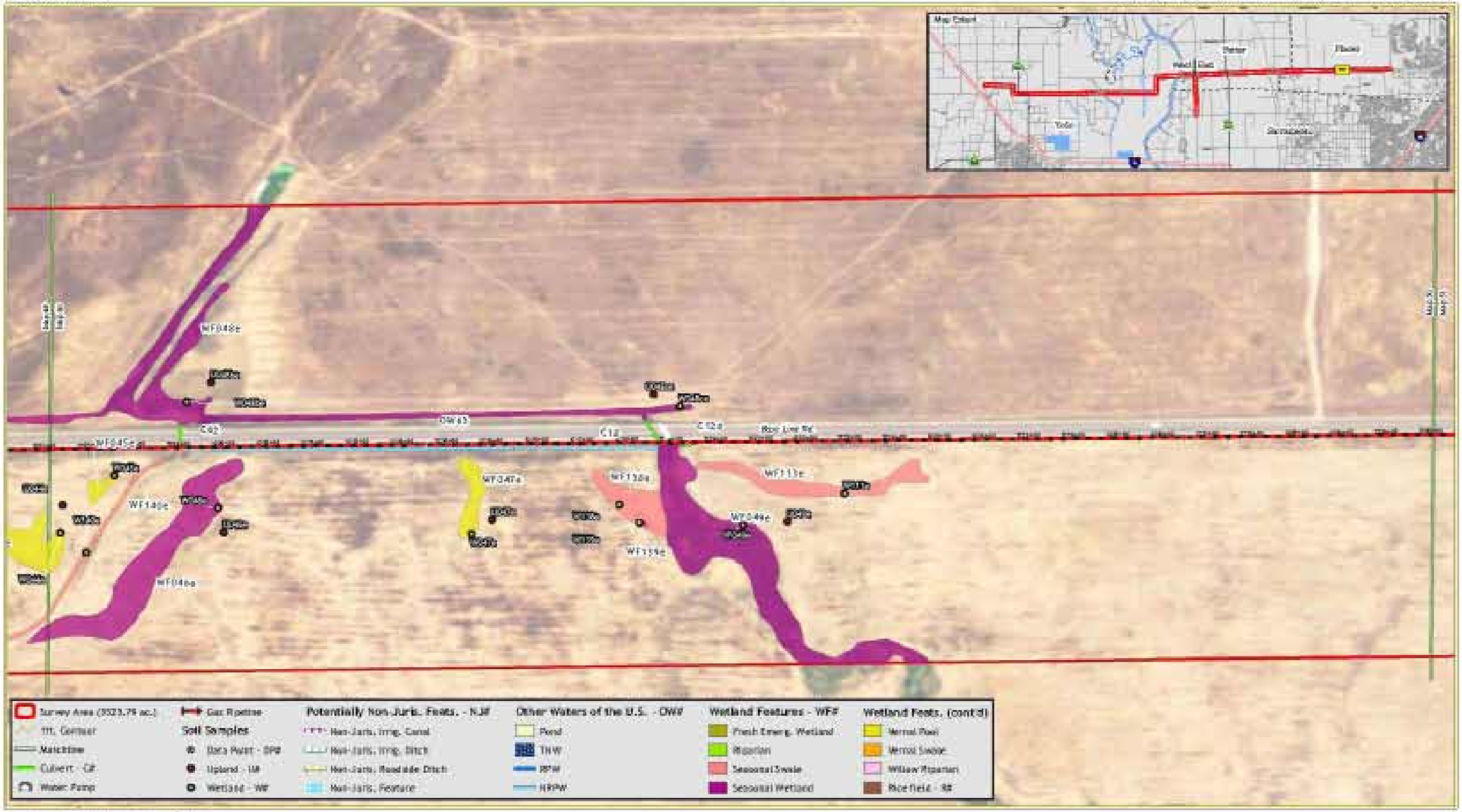
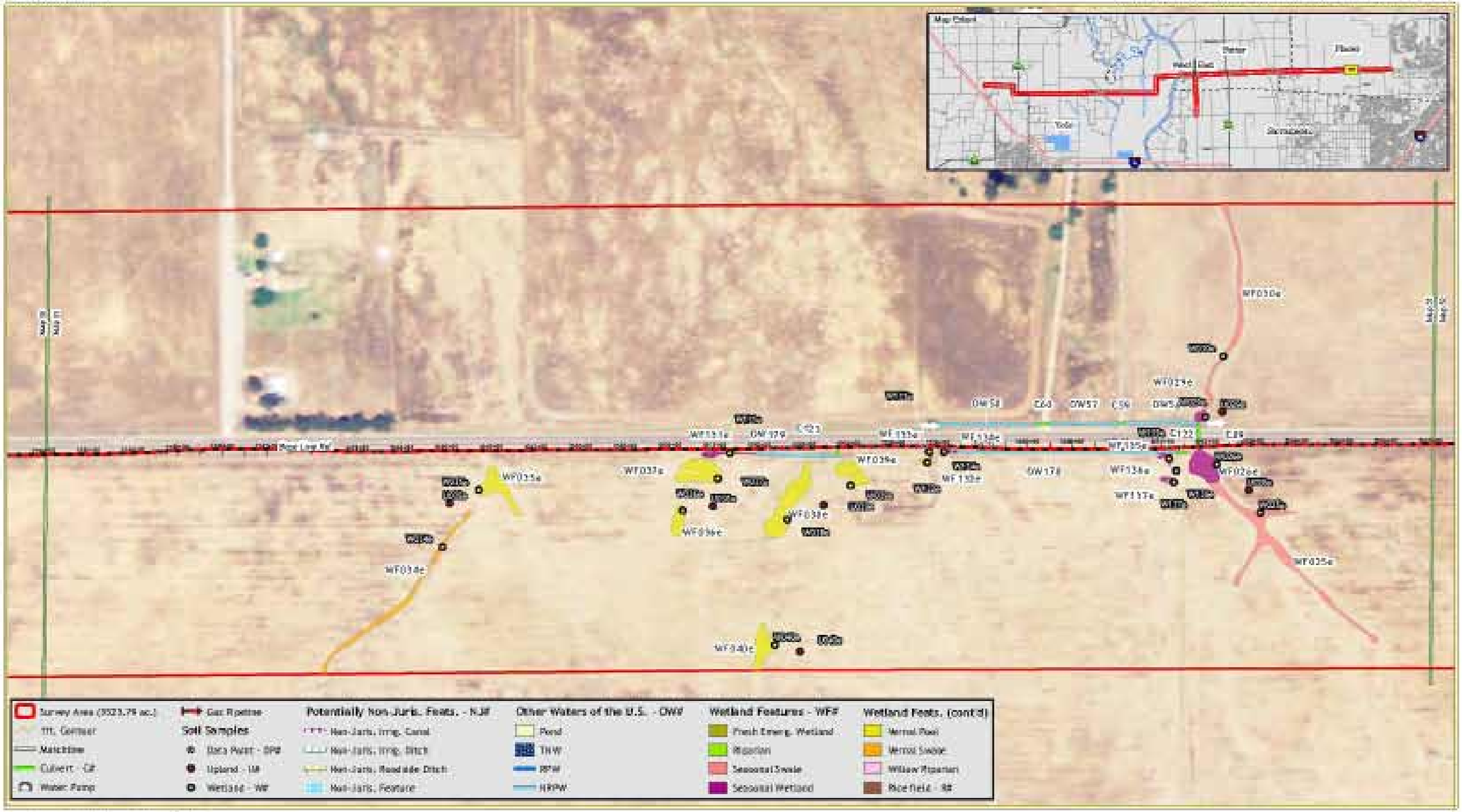
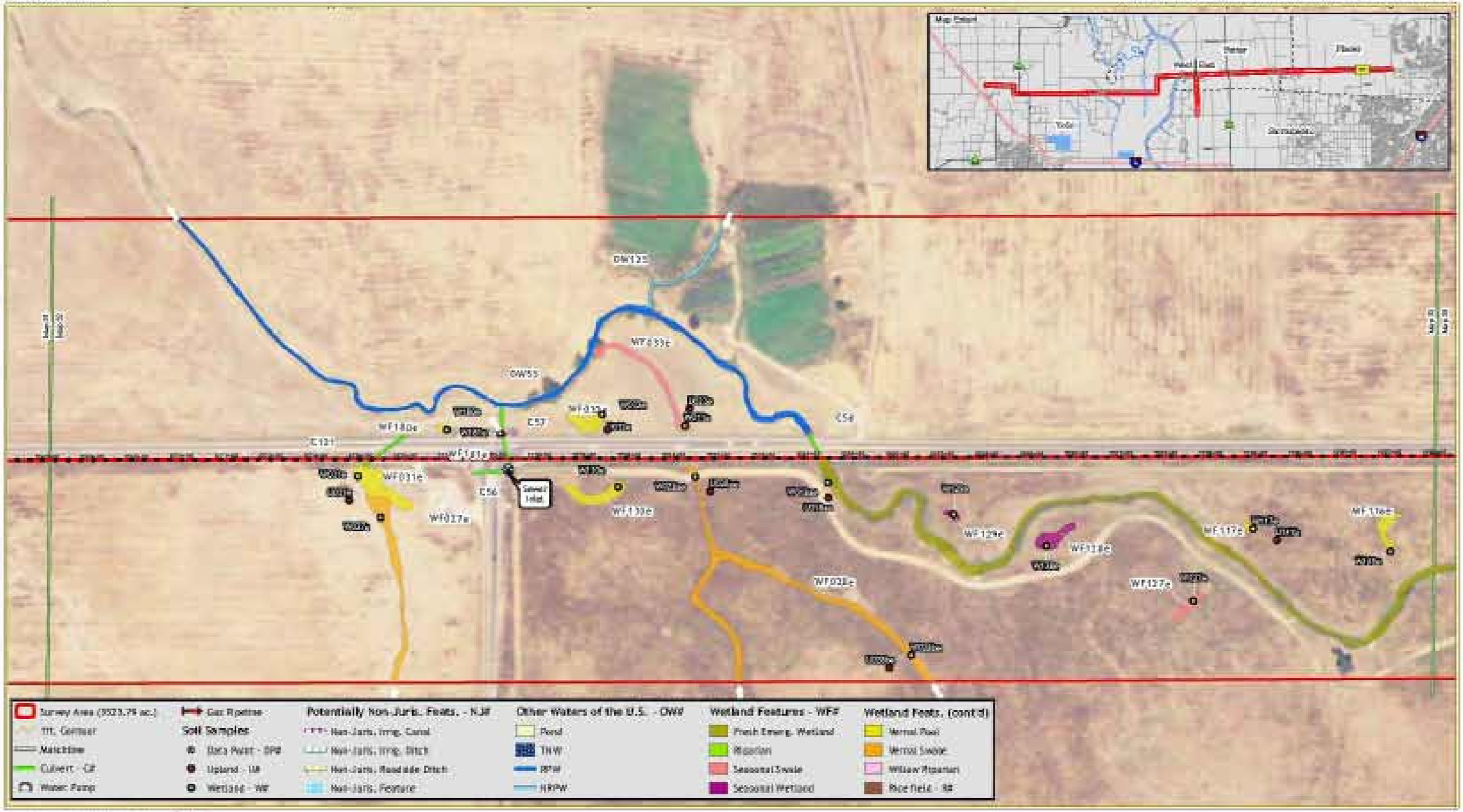
WF142e
WF041e
WF042e
WF044e
WF140e
Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJ#
Other Waters of the U.S. - OW#
Wetland Features - WF#
Wetland Feats. (cont'd)
Trt. Contour
Soil Samples
Non-Juris. Irrig. Canal
Pond
Fresh Emerg. Wetland
Vernal Pool
Mainline
Data Point - DP#
Non-Juris. Irrig. Ditch
TNW
Riparian
Vernal Swale
Culvert - C#
Upland - UP
Non-Juris. Roadside Ditch
RPW
Seasonal Swale
Willow Riparian
Water Pump
Wetland - W#
Non-Juris. Feature
NRPW
Seasonal Wetland
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - CP
Water Pump
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WF#
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
TTL Contour
Matchline
Culvert - CP
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPP
Upland - UP
Wetland - WP
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
TNW
RPW
NRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Map Extent
Yolo
Sacramento
Placer
OW135
OW55
WF033e
WF032
WF180e
WF181e
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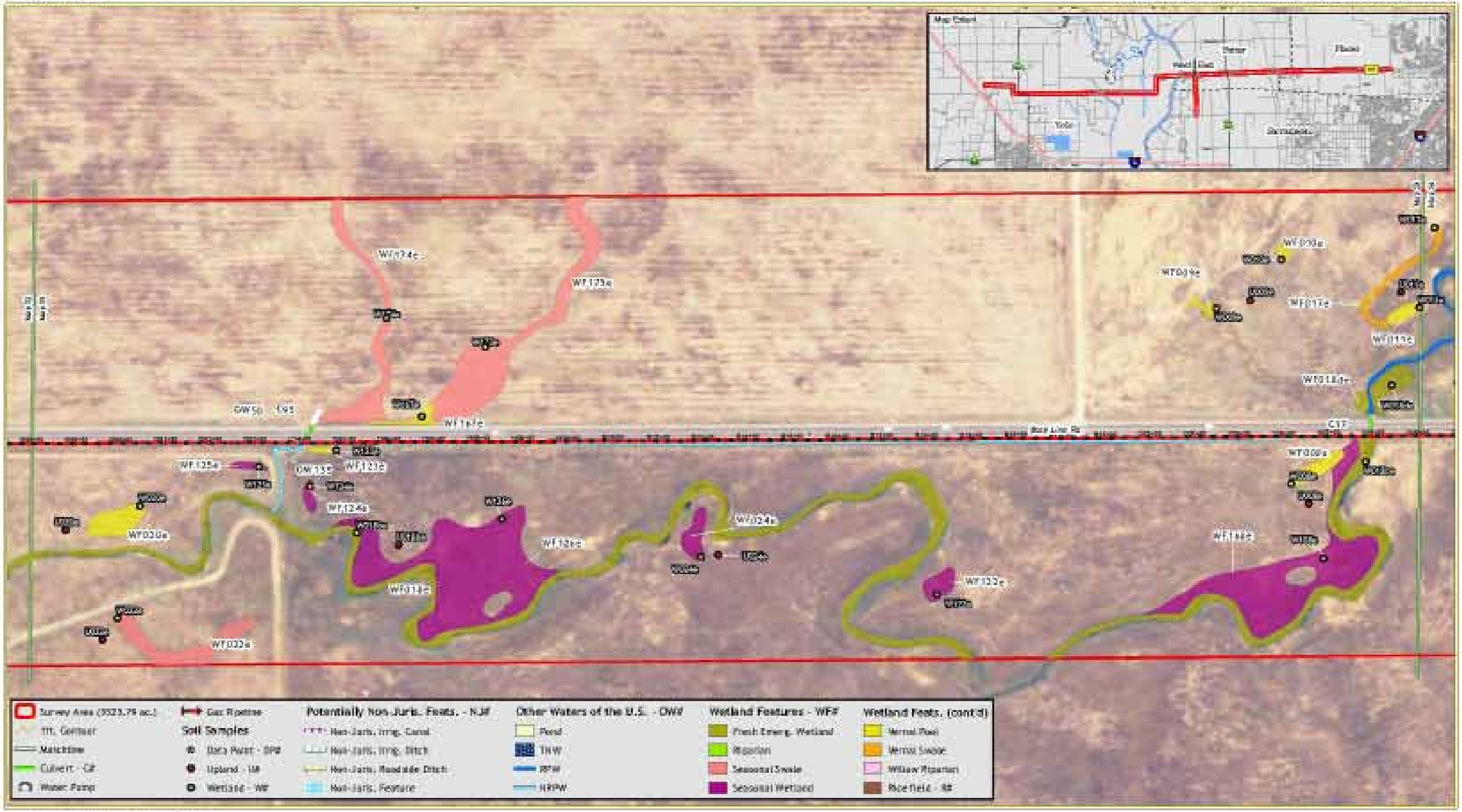
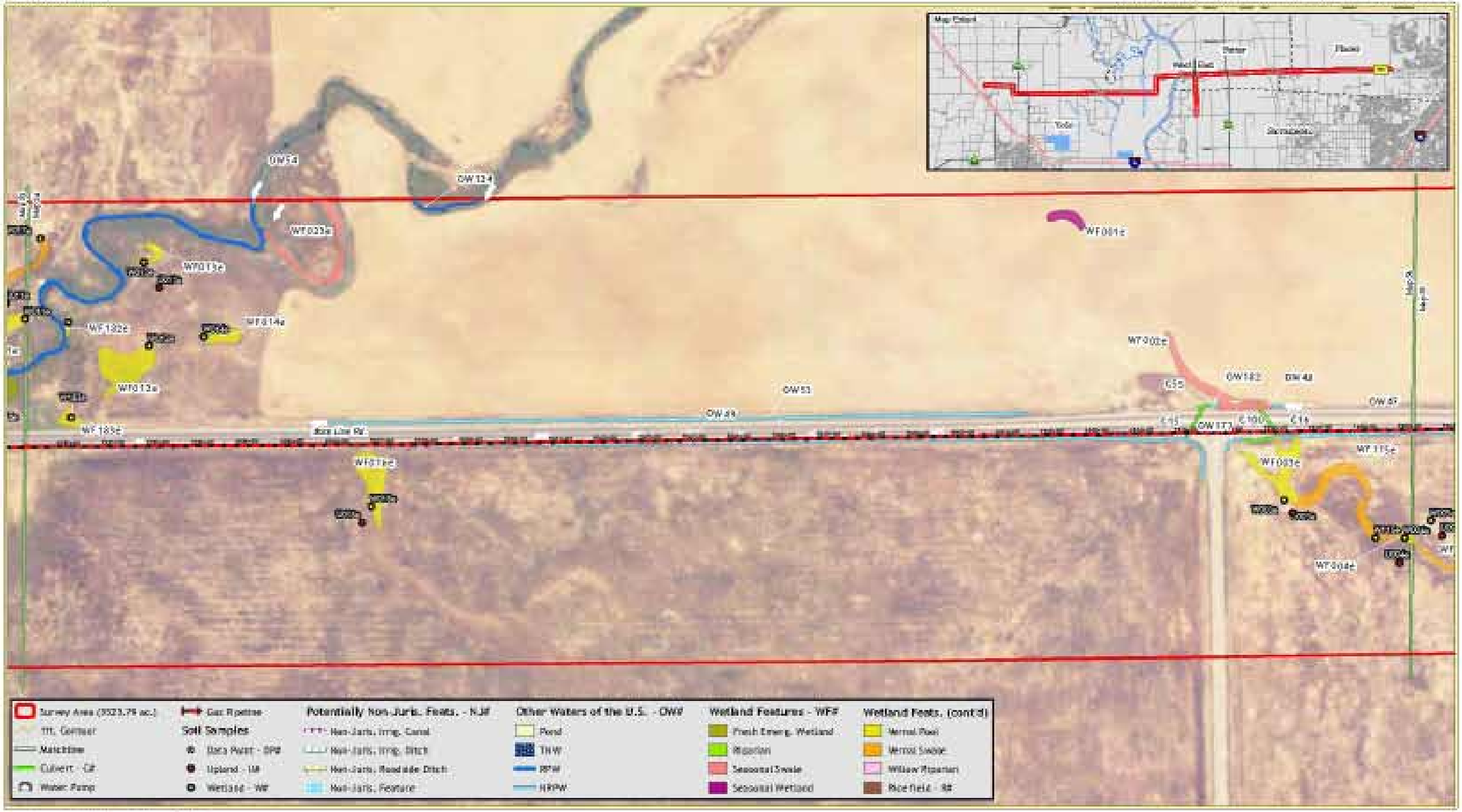
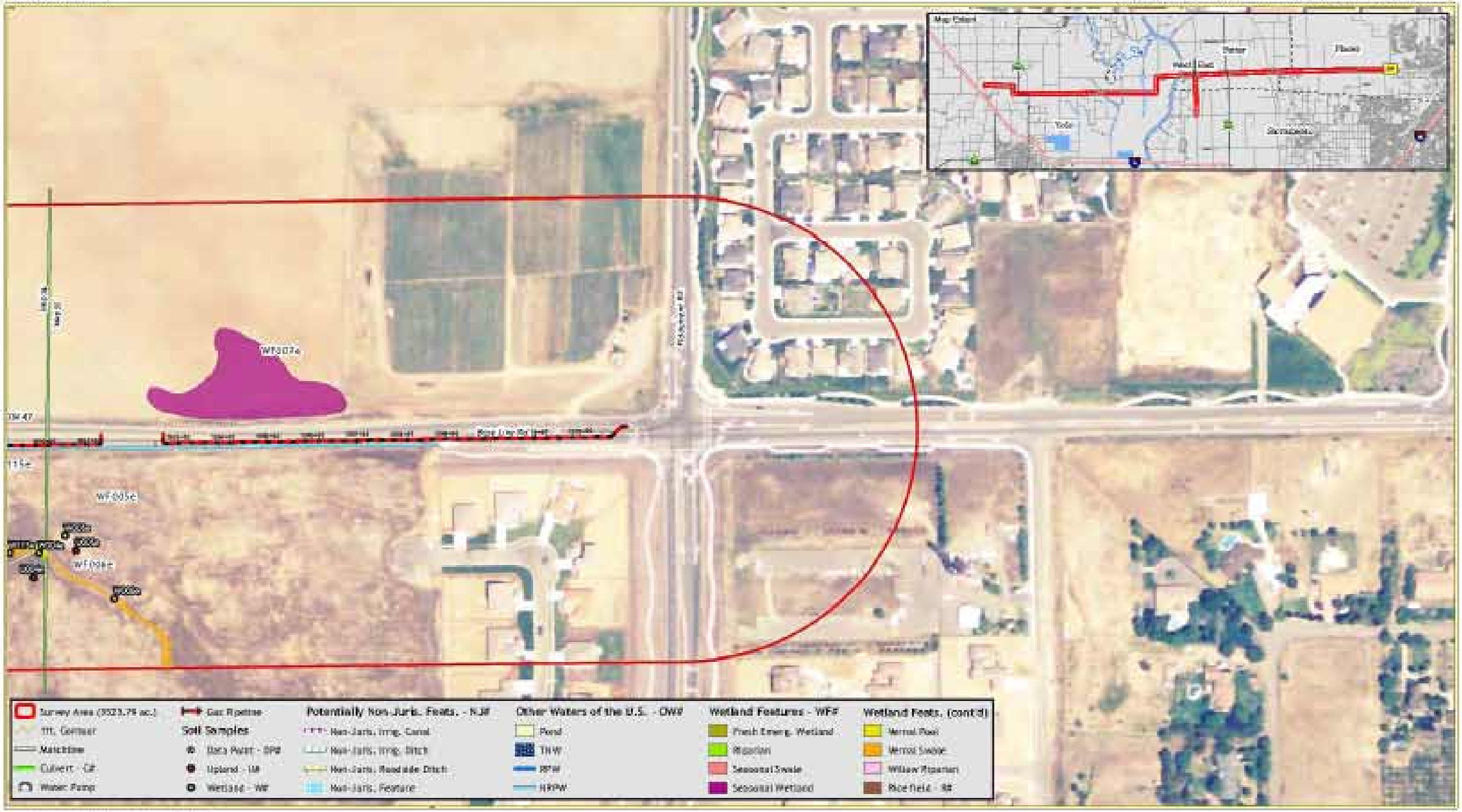
WF027e
WF130e
WF129e
WF128e
WF127e
WF116e
C57
C56
C121
Survey Area (3523.79 ac.)
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - UP
Wetland - W#
Potentially Non-Juris. Feats. - NJ#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OW#
Pond
TNW
RPW
NRPW
Wetland Features - WF#
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Survey Area (3523.79 ac.)
TTL Centerline
Matchline
Culvert - CU
Water Pump
Gas Pipeline
Soil Samples
Data Point - DPW
Upland - UP
Wetland - WF
Potentially Non-Juris. Feats. - NJF
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OWF
Pond
THW
PFW
HRPW
Wetland Features - WFF
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice Field - RF
Feet
0 100 200
GALLAWAY
CONSULTING, INC.


Map Extent
Yolo
Sacramento
Placer
OW54
OW124
WF023e
WF013e
WF182e
WF014e
WF013e
WF183e
WF016e
WF001e
WF002e
OW53
OW49
OW182
OW48
OW47
OW173
WF115e
WF003e
WF004e
Survey Area (3523.79 ac.)
Gas Pipeline
Potentially Non-Juris. Feats. - NJ#
Other Waters of the U.S. - OW#
Wetland Features - WF#
Wetland Feats. (cont'd)
Soil Samples
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Pond
TNW
RPW
NRPW
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Culvert - C#
Water Pump
Feet
0
100
200
GALLAWAY
CONSULTING, INC.


Map Extent
Yolo
Sacramento
Survey Area (3523.79 ac.)
Gas Pipeline
Soil Samples
Data Point - DP#
Upland - UP
Wetland - W#
Potentially Non-Juris. Feats. - NJ#
Non-Juris. Irrig. Canal
Non-Juris. Irrig. Ditch
Non-Juris. Roadside Ditch
Non-Juris. Feature
Other Waters of the U.S. - OW#
Pond
TNW
RPW
NRPW
Wetland Features - WF#
Fresh Emerg. Wetland
Riparian
Seasonal Swale
Seasonal Wetland
Wetland Feats. (cont'd)
Vernal Pool
Vernal Swale
Willow Riparian
Rice field - R#
Feet
0
100
200
GALLAWAY
CONSULTING, INC.