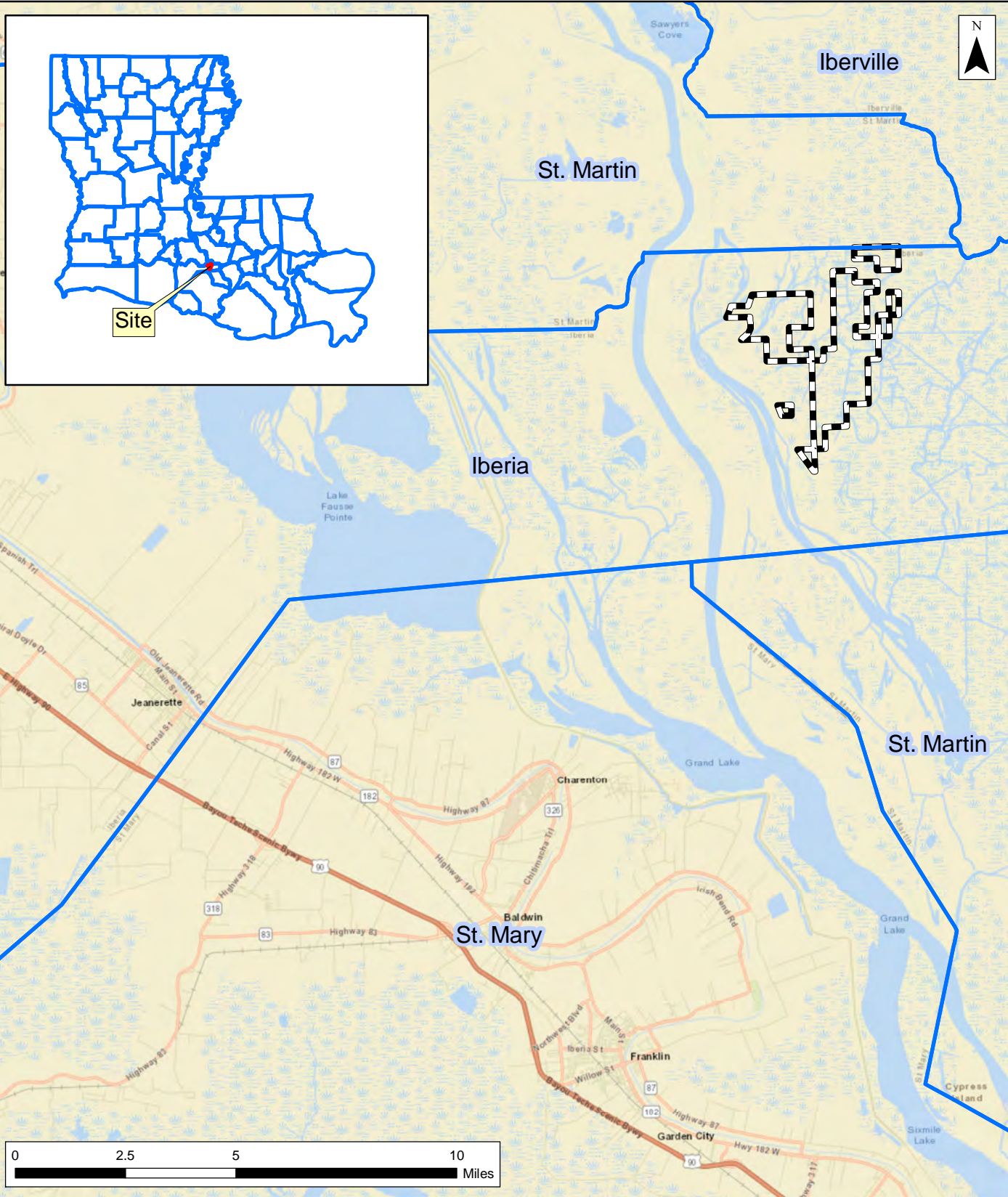




P:\Projects\0519829\Kean Miller, LLP (CVX)\Jeanerette Lumber v COP\SWGIS\Maps\14_Expert Report\01_Site Location.mxd REVISED: 03/20/2021 SCALE: 1:200,000 when printed at 8.5x11

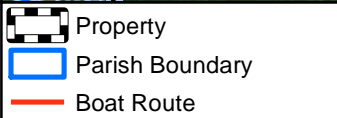
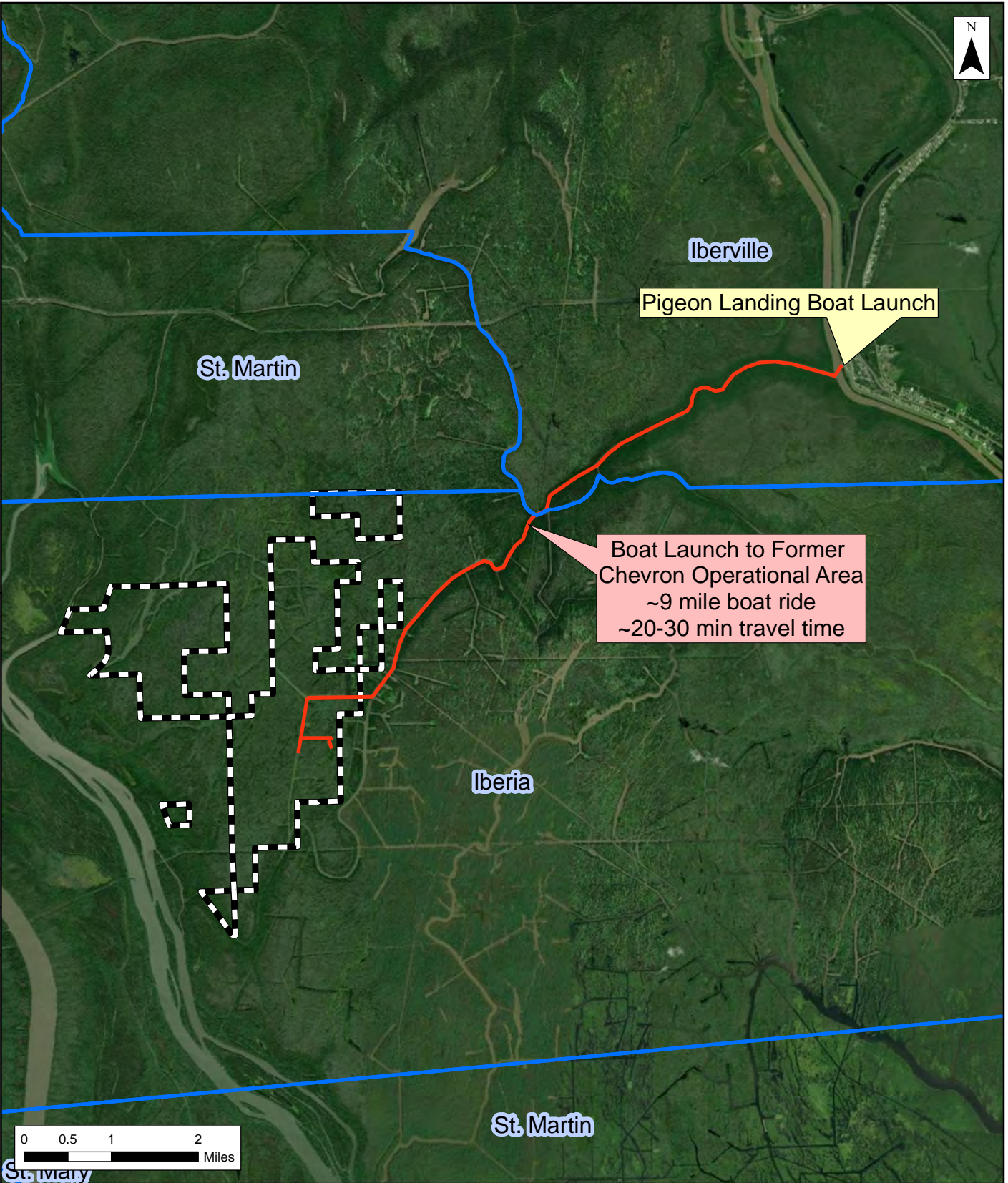


-  Parish Boundary
-  Property

Notes:
 World Street Basemap via ArcGIS Online.
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

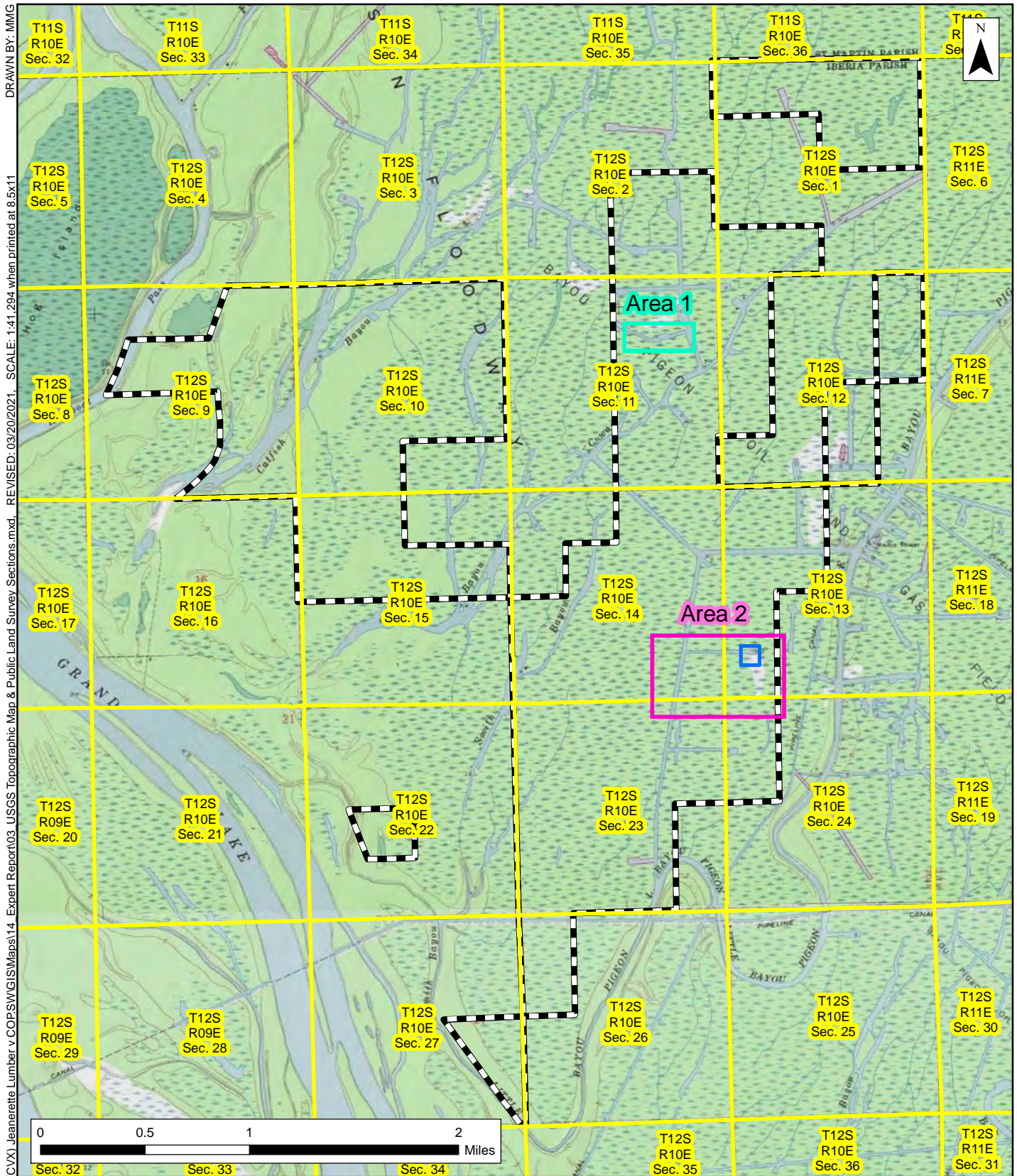
Figure 1
Site Location
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

Environmental Resources Management
 www.erm.com

Notes:
 Imagery Basemap via ArcGIS Online.
 World Street Basemap via ArcGIS Online.
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 2
Site Access
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



DRAWN BY: MMG
 P:\Projects\0519829\Kean Miller, LLP (CVX)\Jeanerette Lumber v COP.SWG\GIS\Maps\14_Expert Report\03_USGS Topographic Map & Public Land Survey Sections.mxd
 REVISD: 03/20/2021 SCALE: 1:41,294 when printed at 8.5x11

- Property
- Public Land Survey Sections
- Chevron Evaluation Area

Notes:
 USGS Topographic Map via ArcGIS Online.
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 3
USGS Topographic Map & Public Land Survey Sections
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

Environmental Resources Management
 www.erm.com



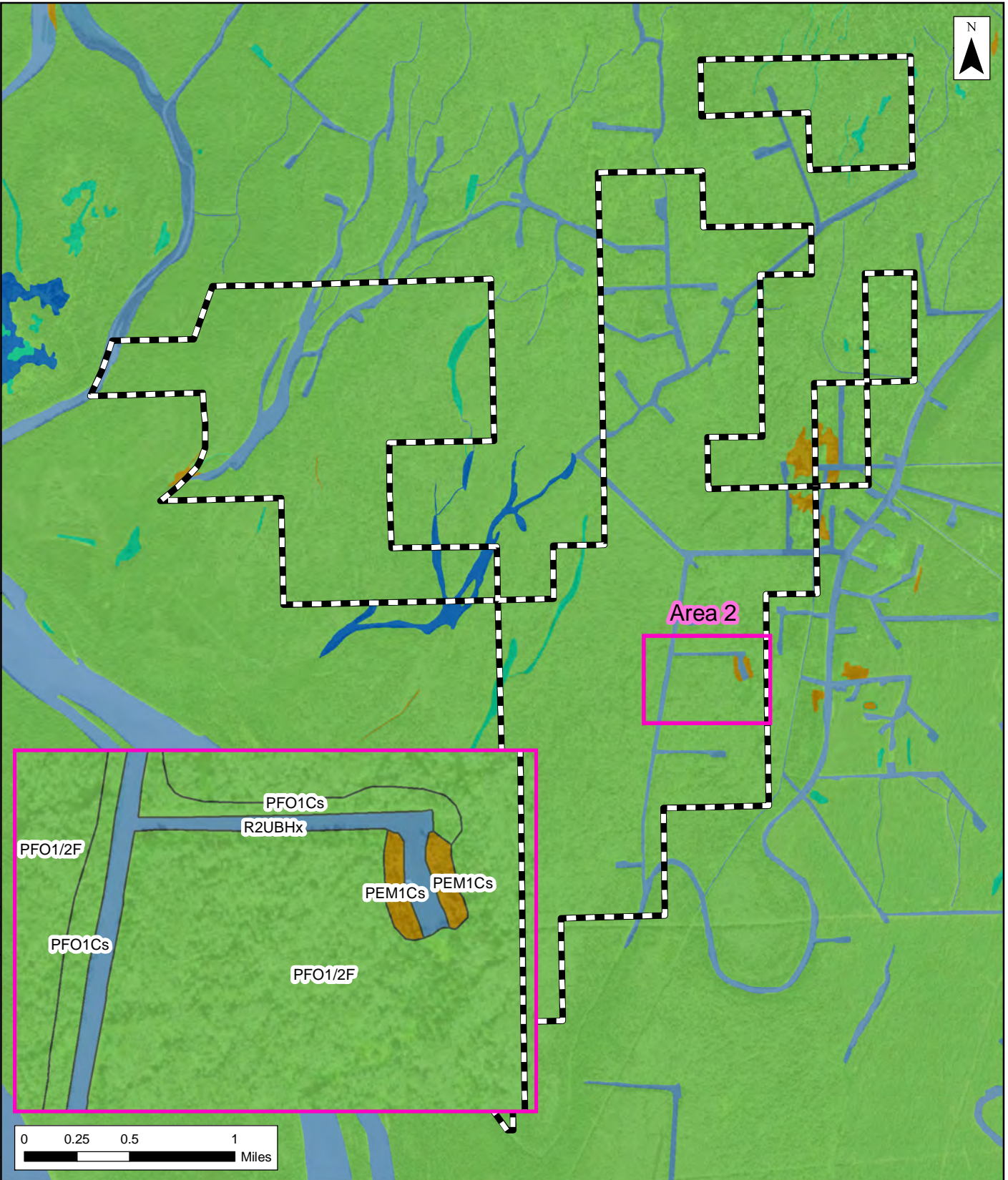
Property

LiDAR Elevation Contour

Lower Elevation	Higher Elevation

Notes:
 Elevation model based on LiDAR data from LSU Atlas.
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 4
LiDAR Elevation Model
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

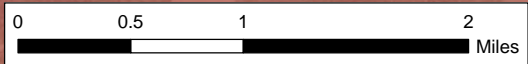




- Property
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

Notes:
 Wetland data from US Fish and Wildlife Service.
 Imagery basemap via ArcGIS Online.

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 5
USFWS Wetlands
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



-  Property
-  1% annual chance of flooding

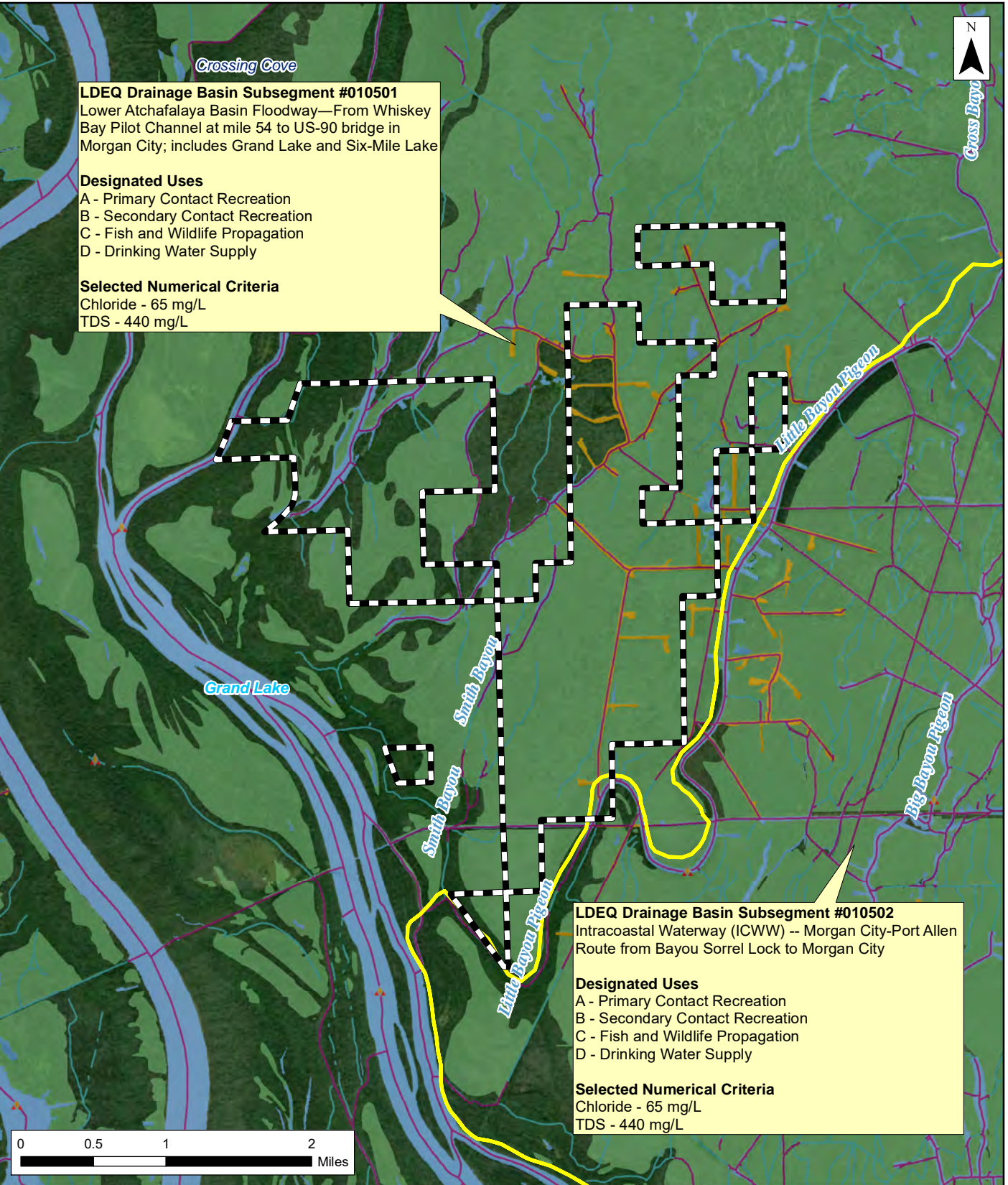
Notes:
 FEMA Flood Zones from FEMA's National Flood Hazard Layer Viewer
 (<https://www.fema.gov/national-floodhazard-layer-nfhl>).
 Imagery Basemap via ArcGIS Online.

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 6
FEMA Flood Zones
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



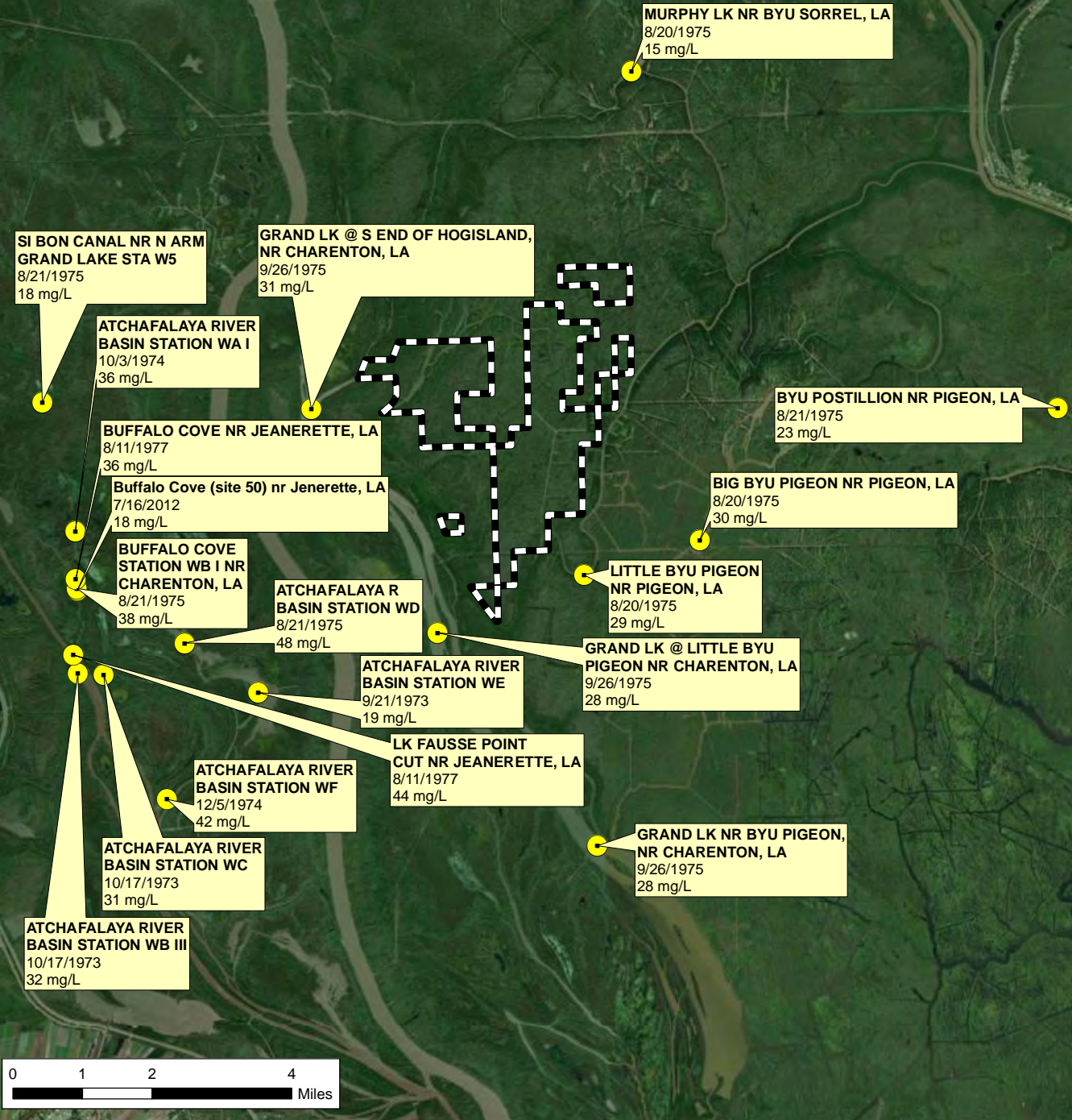
P:\Projects\0519829\Kean Miller, LLP (CVX) Jeanerette Lumber v COP\S\GIS\Maps\14 Expert Report\07 Surface Water Bodies and LDEQ Drainage Basin Subsegment.mxd, REVISED: 03/20/2021, SCALE: 1:60,000 when printed at 8.5x11
 DRAWN BY: MMG



- Property
- LDEQ Drainage Basin Subsegment
- Divergence Structure
- Gaging Station
- Canal/Ditch
- Stream/River
- Lake/Pond
- Swamp/Marsh

Notes:
 Hydrography data from the USGS National Map Viewer.
 Subsegment data from LDEQ
 (<http://www.deq.louisiana.gov/portal>).
 Imagery Basemap via ArcGIS Online.

Figure 7
Surface Water Bodies and LDEQ Drainage Basin Subsegment
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

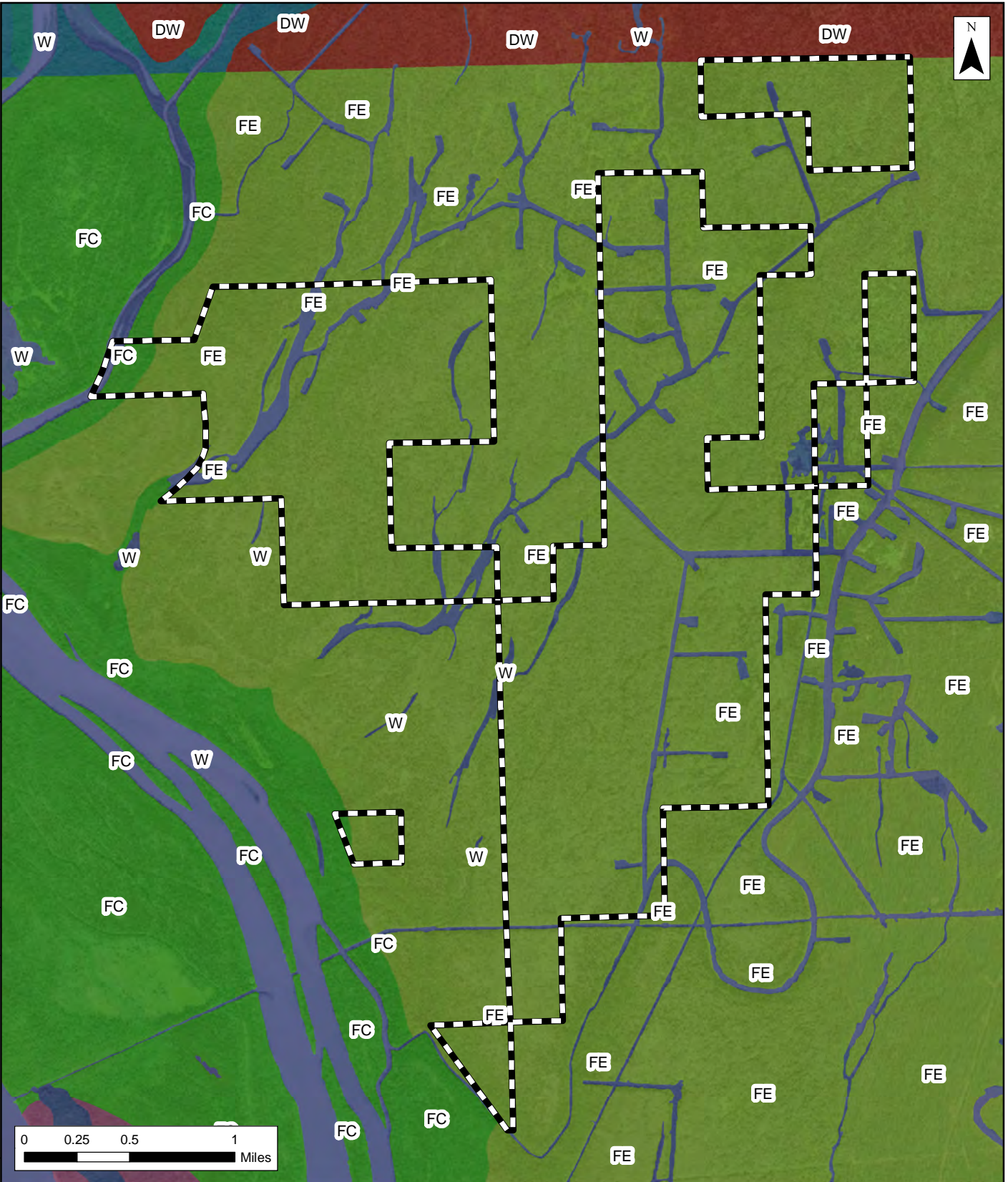











- Property
- USGS Monitoring Station

Notes:
 USGS water quality data from National Water Quality Monitoring Council Water Quality Portal (<http://waterqualitydata.us>).
 NA - Not Available
 Imagery Basemap via ArcGIS Online.

Figure 8
USGS Surface Water Chloride Data
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana





-  Property
-  Az - Aquent, dredged, 1 to 5 percent slopes, occasionally flooded
-  CH - Carville-Barbary association
-  CR - Carville soils, undulating, frequently flooded
-  DW - Dowling soils, 0 to 1 percent slopes, frequently flooded
-  FC - Fausse-Carville association
-  FE - Fausse soils, 0 to 1 percent slopes, frequently flooded
-  GW - Hydraquents, Carville, and Glenwild soils, undulating, flooded
-  W - Water

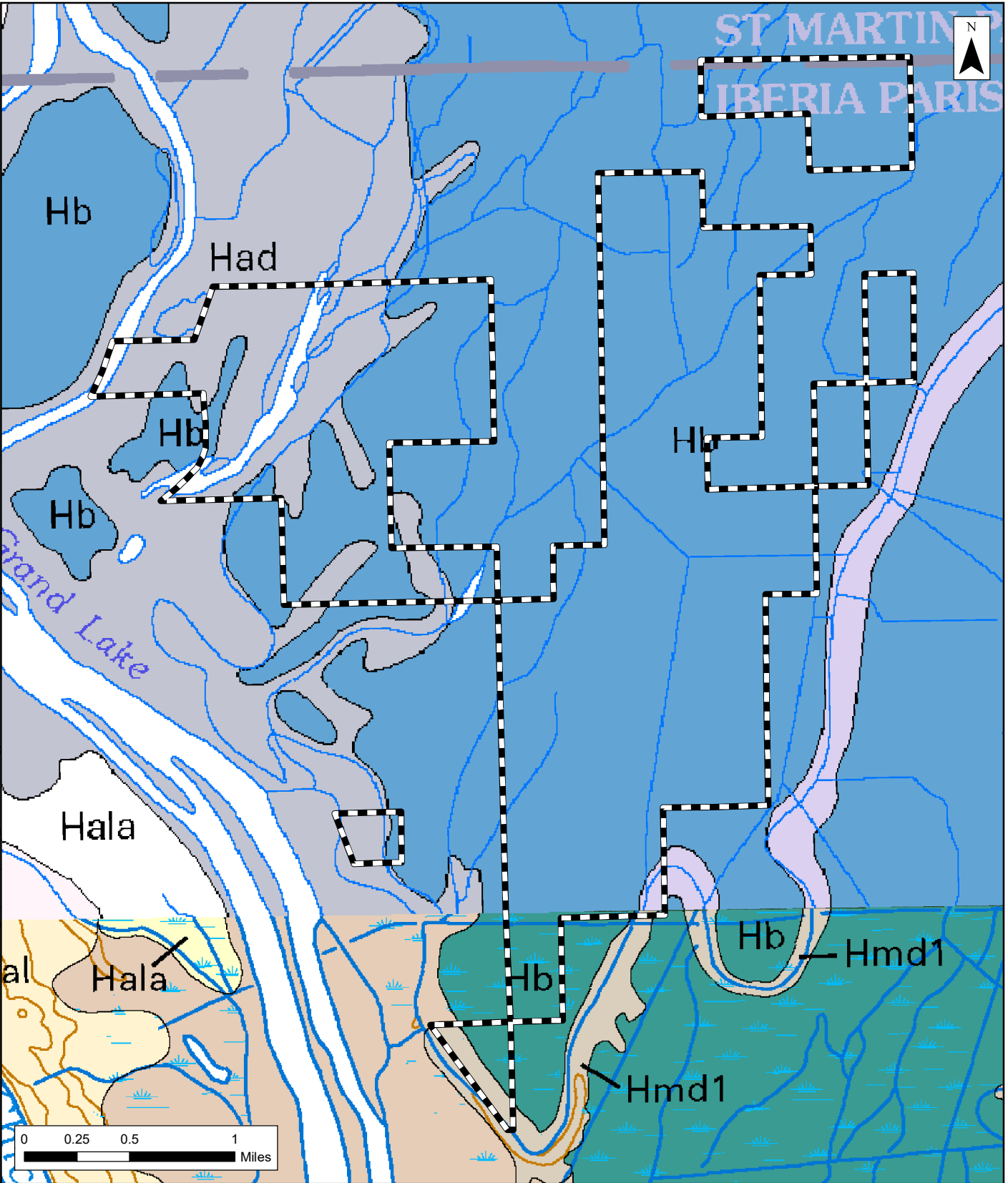
Notes:
Imagery Basemap via ArcGIS Online.

Environmental Resources Management
www.erm.com


Figure 9
USDA Surface Soil Types
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana

DRAWN BY: MMG

P:\Projects\0519829\Kean Miller, LLP (CVX)\Jeanerette Lumber v COP\SWGIS\Maps\14_Expert Report\10_Surface Geology.mxd, REVISED: 03/20/2021, SCALE: 1:41,332 when printed at 8.5x11



Property

- Hb - Backswamp deposits** - Holocene deposits of the Mississippi and Atchafalaya Rivers. They consist of fine-grained, usually clayey and often organically rich sediments that underlie flood basins between meander-belts.
- Had - Distributary complex of the Atchafalaya River** - silty to sandy, natural levee deposits of distributaries originating from the Atchafalaya River.
- Hala - Lacustrine deposits** - fine-grained, generally clayey deposits of areas created by the infilling of lakes by the Atchafalaya River distributaries.
- Hmd1 - Distributary complex of Mississippi River meander-belt No. 1** - silty to clayey, natural levee deposits of distributaries originating from meander-belt No. 1

Notes:
Baton Rouge and Morgan
City 100K Geology Maps.

Environmental Resources Management
www.erm.com

Figure 10
Surface Geology
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana

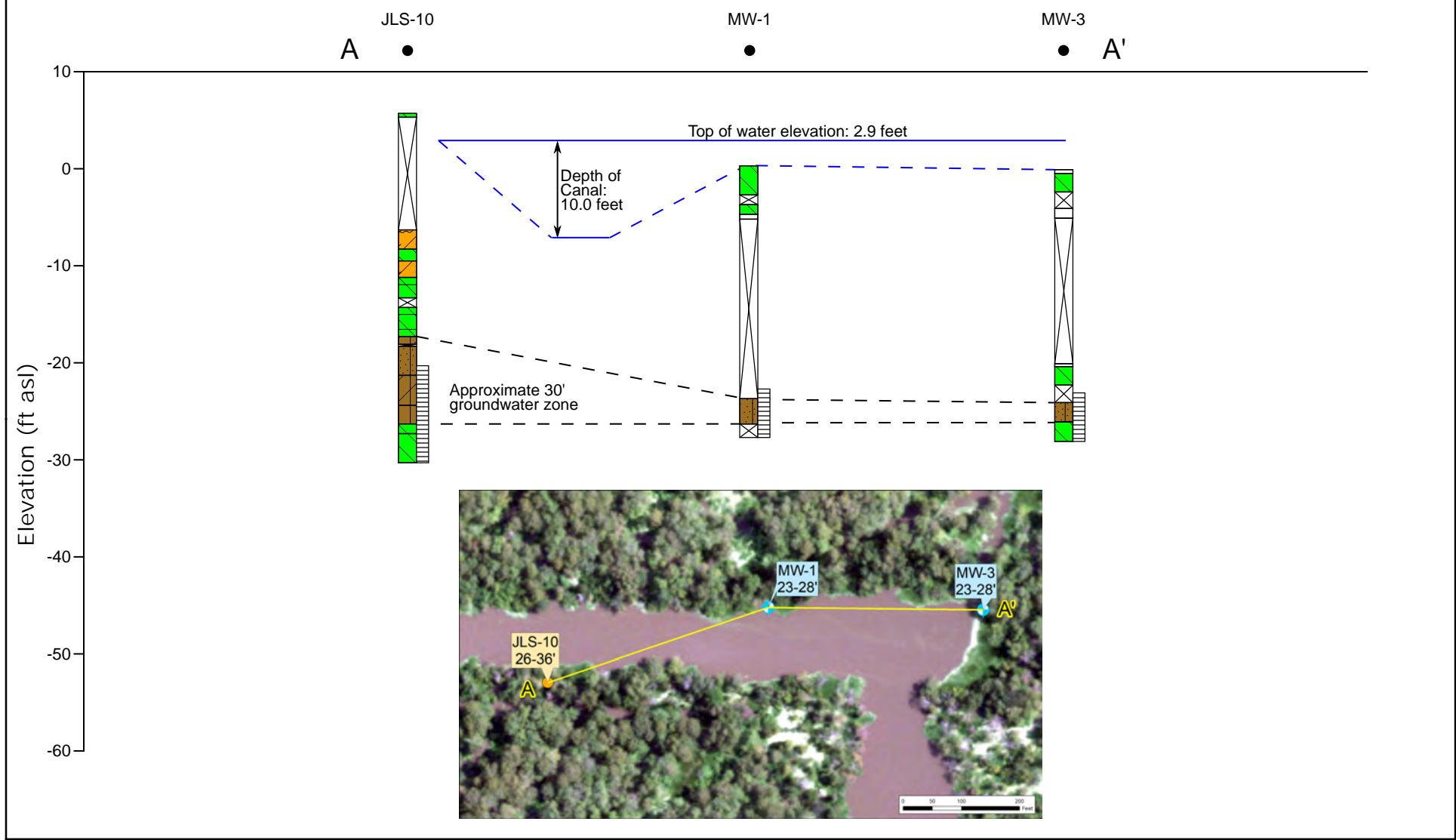


- Property
- Cross Section A-A'
- Cross Section B-B'
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well

Notes:
7/6/2019 Aerial via USGS Earth Explorer

Figure 11
Cross Section Transect Lines
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana

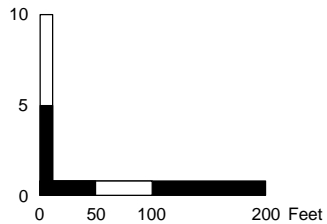




Legend

- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Peat

- No Recovery
- Well Screen



Notes:

Dashed line: inferred
 JLS-10 elevation based on LiDAR data.
 MW-1, MW-3, and canal depths based on survey data.
 Horizontal positions referenced to NAD83 datum.
 Vertical positions referenced to NAVD88 datum.
 Water depths estimated where dashed.

Figure 12

Cross Section A-A'

Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

Environmental Resources Management
 www.erm.com



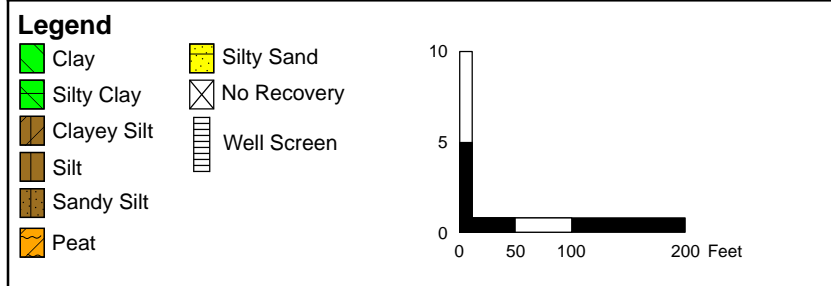
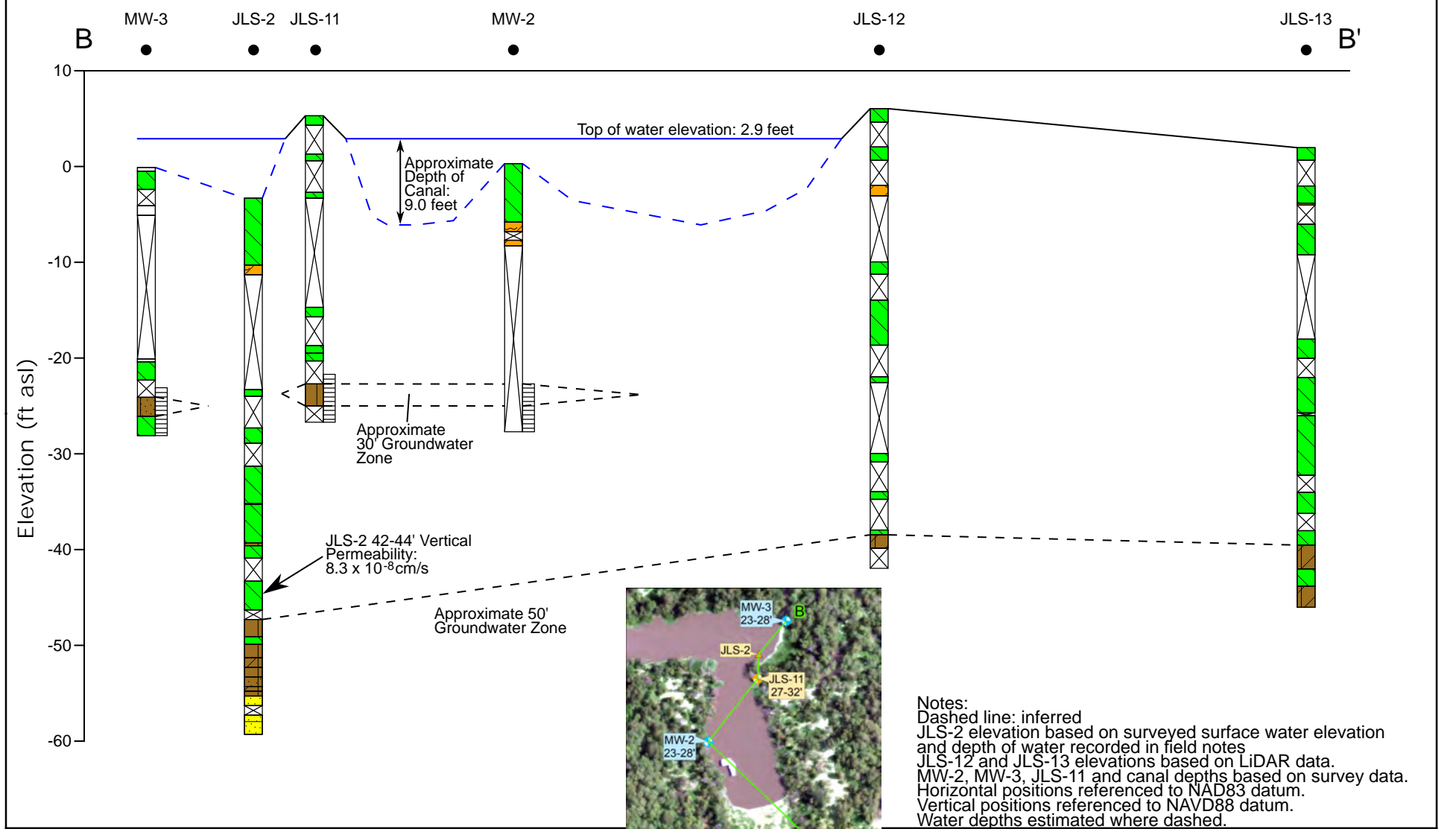
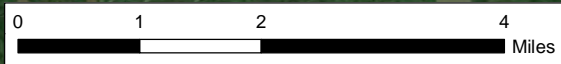
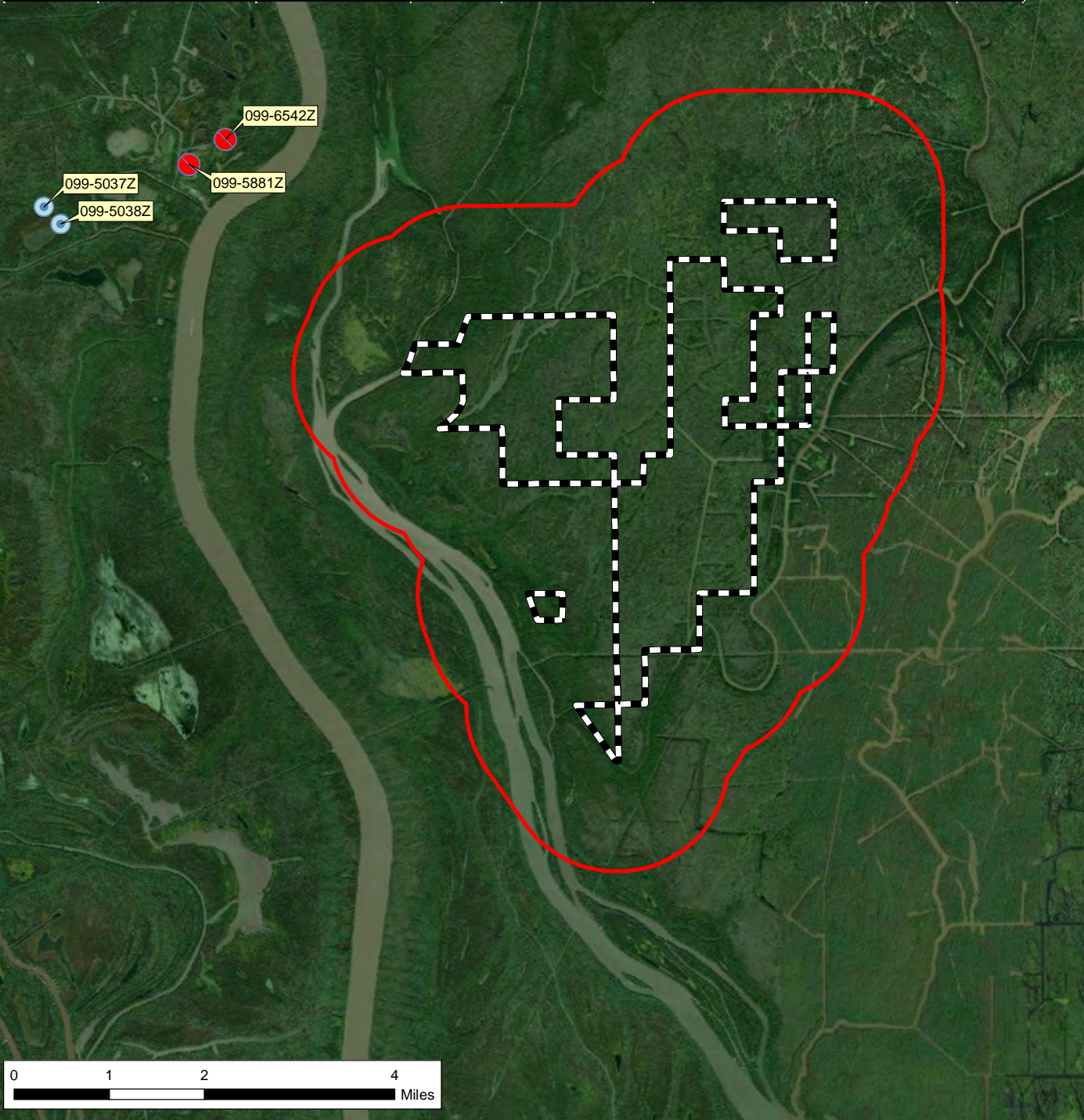


Figure 13
Cross Section B-B'
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

Environmental Resources Management
 www.erm.com

Well No.	Owner	Completion Date	Depth (ft)	Screened Int (ft)	Aquifer	Use	Status
099-5037Z	U S CORPS ENGRS	-	195	-	ATCHAFALAYA AQUIFER	Domestic	P&A
099-5038Z	U S CORPS ENGRS	-	194	-	ATCHAFALAYA AQUIFER	Domestic	P&A
099-5881Z	XCL-LOUISIANA	Mar-90	190	180-190	ATCHAFALAYA AQUIFER	Rig Supply	Active
099-6542Z	DENBURY MGMT	Nov-97	180	160-180	ATCHAFALAYA AQUIFER	Rig Supply	P&A



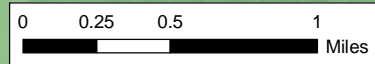
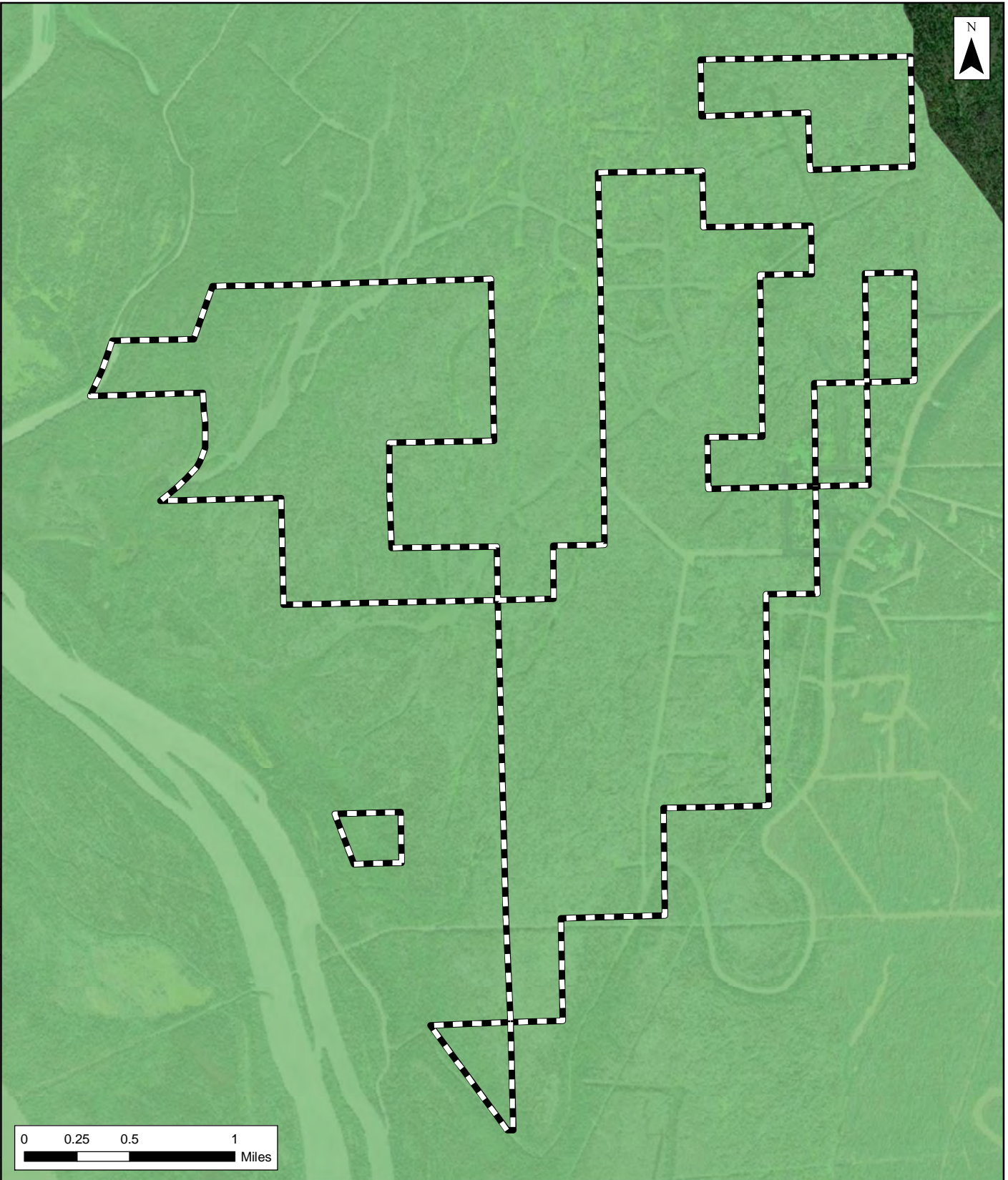
- Property
- 1-Mile Property Radius
- Domestic
- Rig Supply



Notes:
 Water well data from LDNR Sonris (<http://sonris.com>).
 Imagery basemap via ArcGIS Online.

Figure 14

LDNR Registered Water Wells
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana








-  Property
-  No Recharge Potential

Notes:
 Aquifer data from SONRIS (<http://sonris.com>).
 Imagery Basemap via ArcGIS Online.

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 15
Louisiana Aquifer Recharge Potential
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



-  Property
-  Potentiometric Surface EFWH
-  ERM Canal Sediment Sample with Monitoring Well

Notes:
 EFWH - Equivalent Fresh Water Head (corrected for density based on TDS), based on Post, et al, 2007.
 Water elevations measured 2/9/2021.
 Wells surveyed by T. Baker Smith on 2/9/2021.
 Horizontal positions referenced to NAD83 datum.
 Vertical positions referenced to NAVD88 datum.
 7/6/2019 Aerial via USGS Earth Explorer.

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 16
February 9, 2021 Potentiometric Surface
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

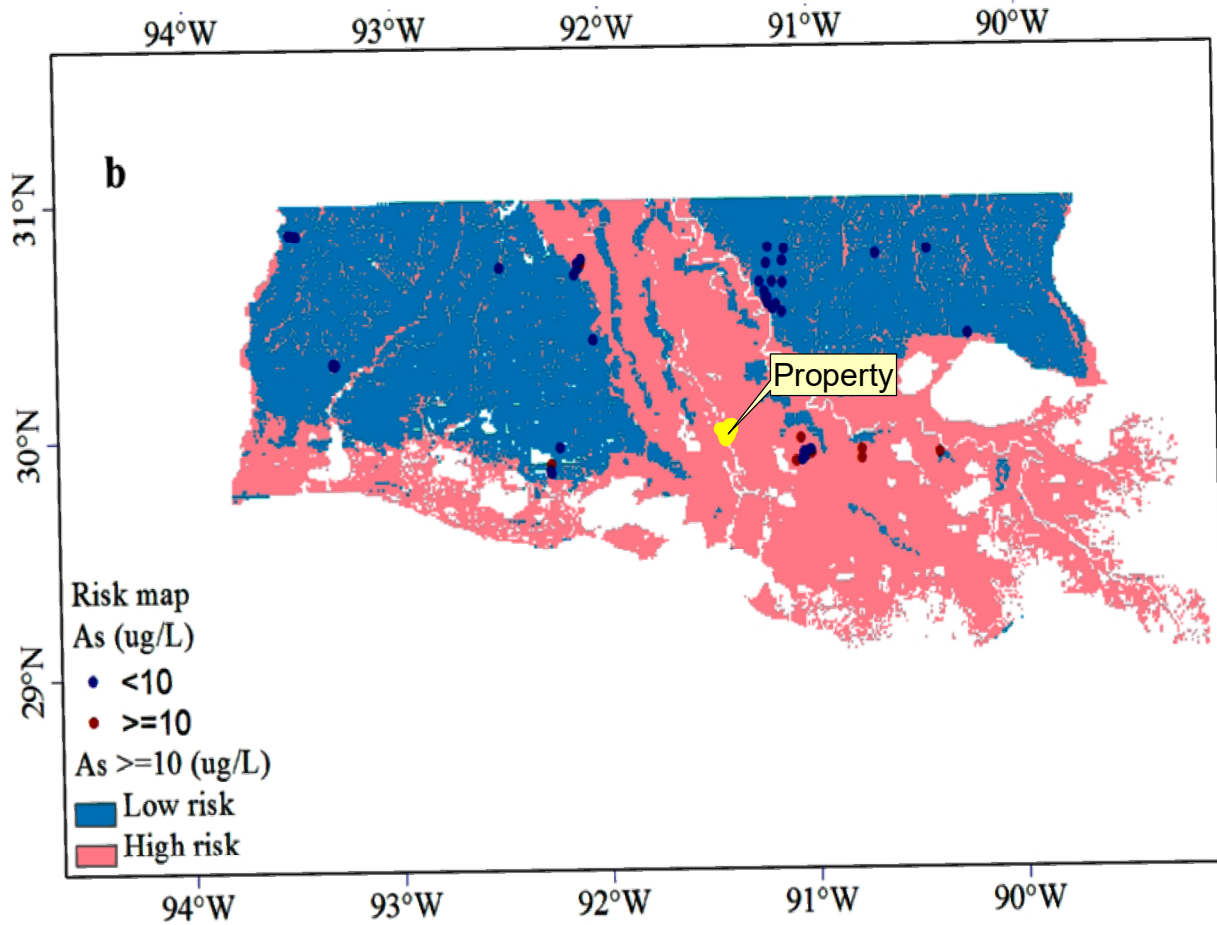
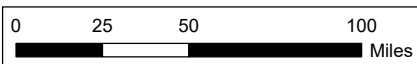


Figure 4. Predicted probability of shallow groundwater As contamination in south Louisiana. (a) Continuous probability map. (b) Binary risk map showing high- and low-risk areas overlain by 78 shallow groundwater As concentration data.



 Property Boundary

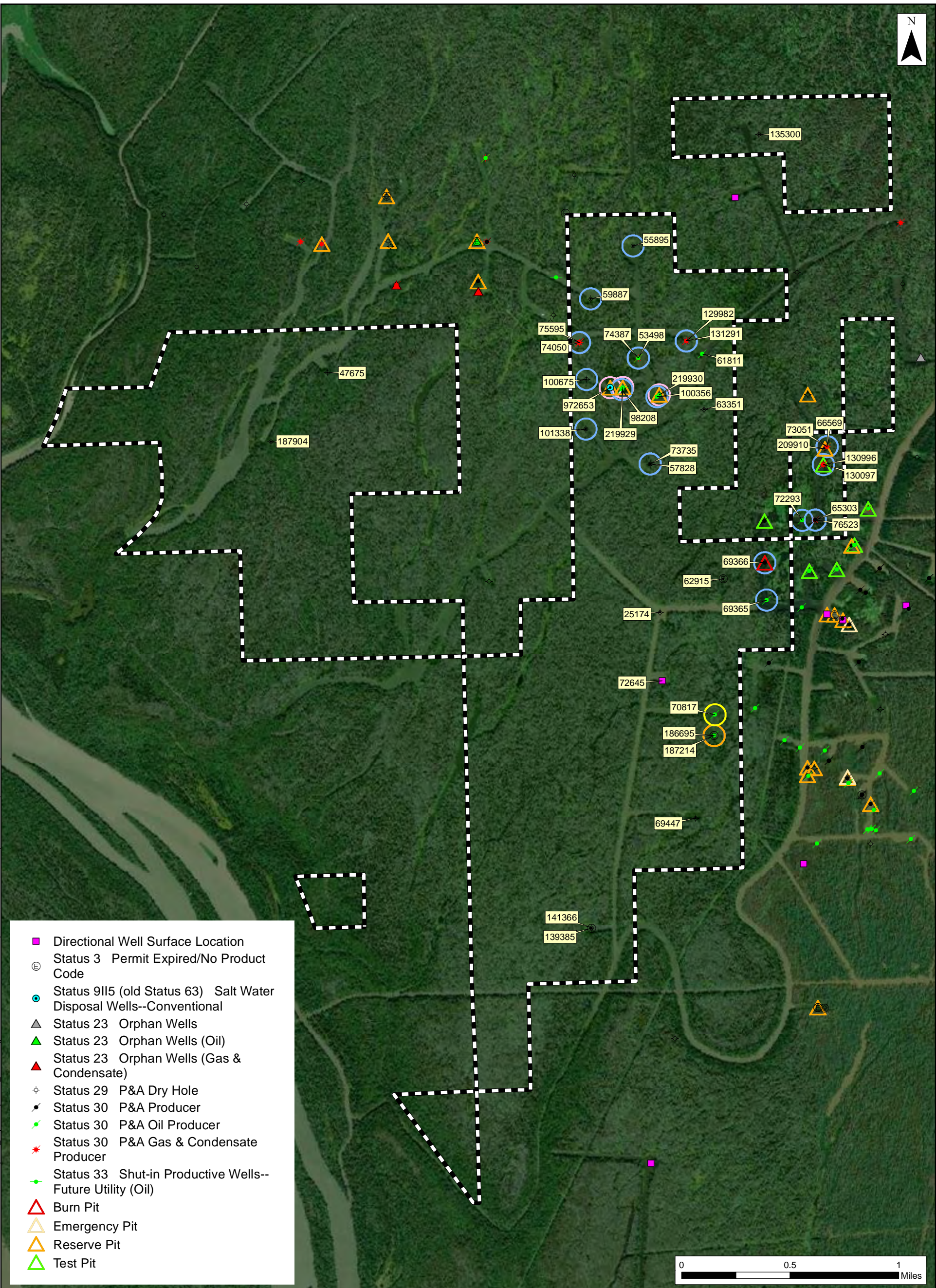
Source:
 Yang, Winkel and Johnnesson. 2014. "Predicting Geogenic Arsenic Contamination in Shallow Groundwater of South Louisiana, United States". American Chemical Society, Environmental Science & Technology, 48, 5660-5666

Figure 17
Probability of Shallow Groundwater Arsenic Contamination

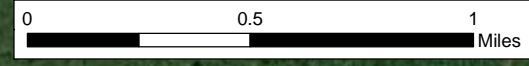
Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

Environmental Resources Management
 www.erm.com


FILE: P:\Projects\0519829\Kean Miller LLP (CVX) Jeanerette Lumber v COP_SWMGIS\Maps\14_Expert Report\18_LDNR Registered Oil & Gas Wells.mxd | REVISED: 03/20/2021 | SCALE: 1:27,253 when printed at 11x17



- Directional Well Surface Location
- Ⓜ Status 3 Permit Expired/No Product Code
- Status 9115 (old Status 63) Salt Water Disposal Wells--Conventional
- ▲ Status 23 Orphan Wells
- ▲ Status 23 Orphan Wells (Oil)
- ▲ Status 23 Orphan Wells (Gas & Condensate)
- ◇ Status 29 P&A Dry Hole
- Status 30 P&A Producer
- Status 30 P&A Oil Producer
- Status 30 P&A Gas & Condensate Producer
- Status 33 Shut-in Productive Wells--Future Utility (Oil)
- ▲ Burn Pit
- ▲ Emergency Pit
- ▲ Reserve Pit
- ▲ Test Pit

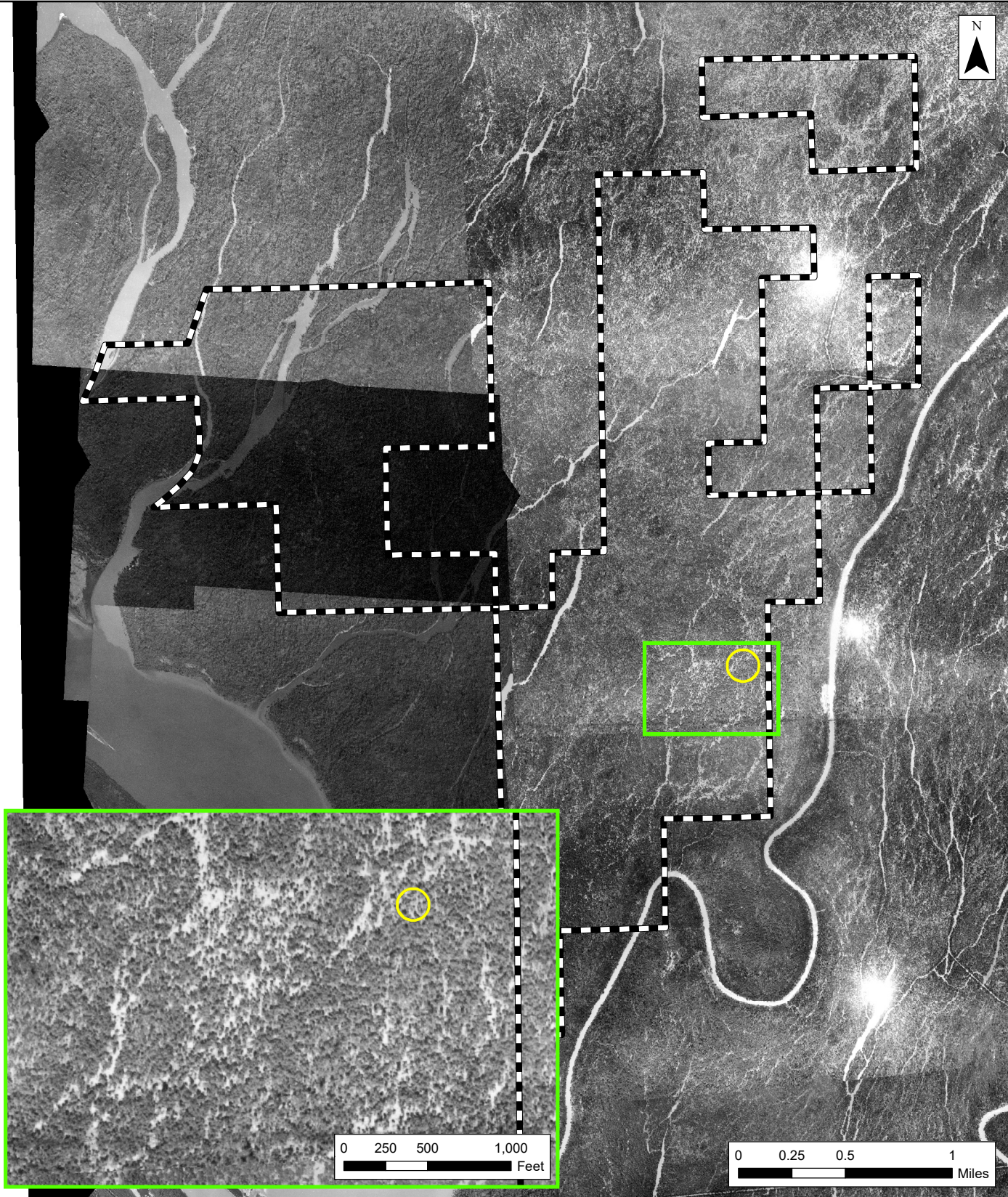


- ▭ Property
- Apache Corporation Well in Petition
- Chevron U.S.A., Inc. Well in Petition
- ConocoPhillips Co. Well in Petition
- Texas Petroleum Investment Company Well in Petition

Notes:
Well data from LDNR Sonris (<http://sonris.com>).
Imagery basemap via ArcGIS Online.

Figure 18
LDNR Registered Oil & Gas Wells
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana






-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 19
1940 Aerial

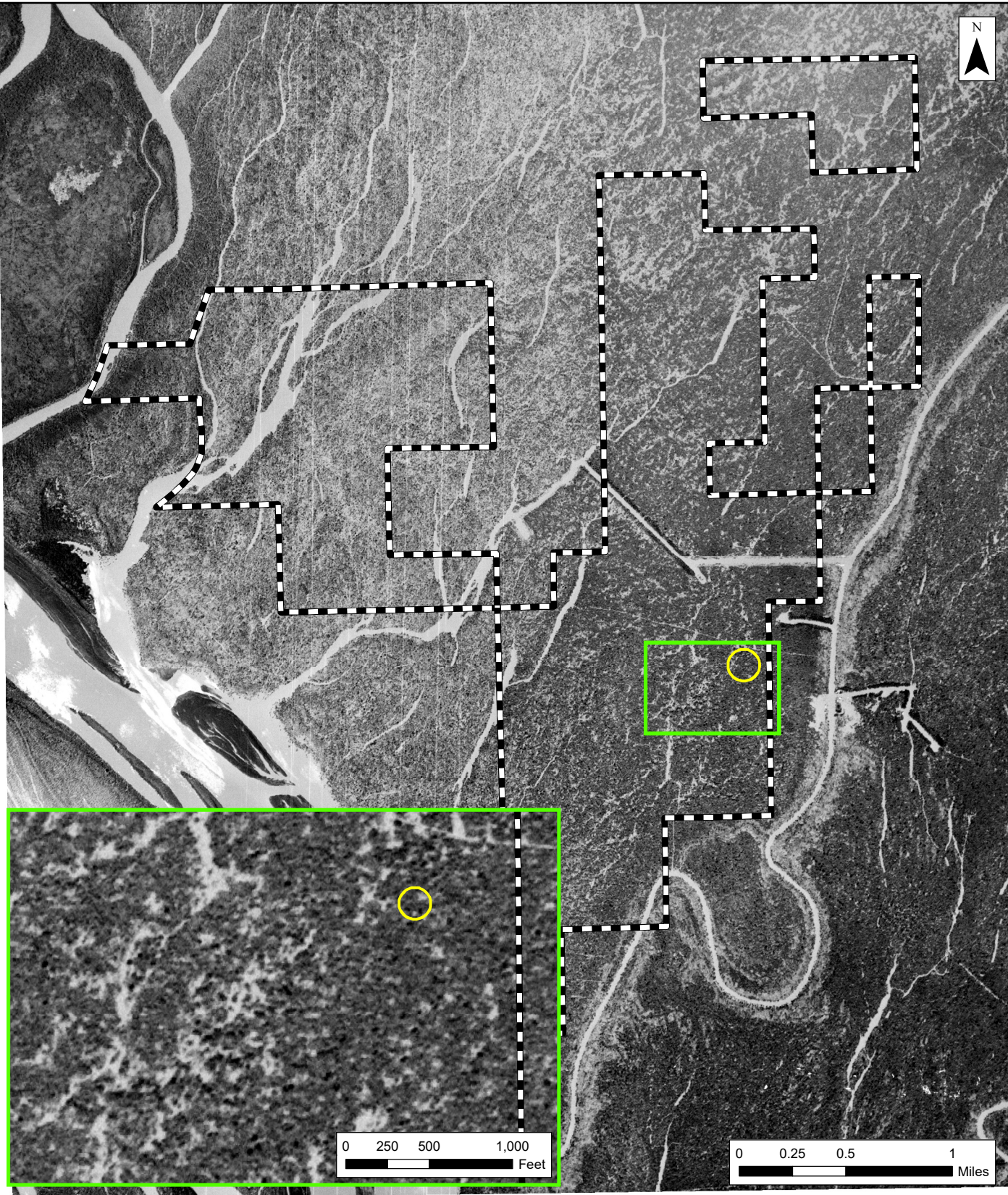
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 20
1951 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana





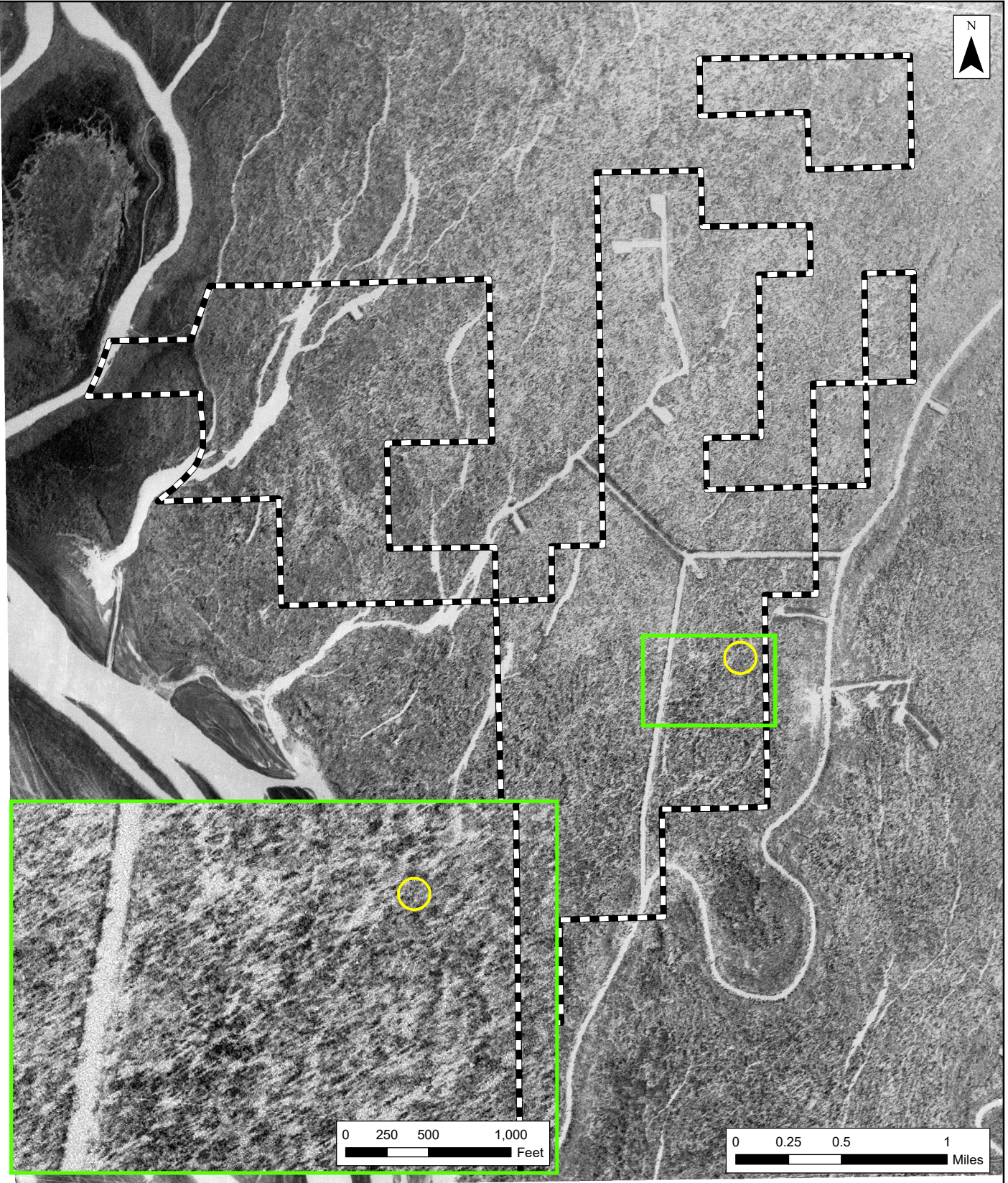


-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 21
1952 Aerial

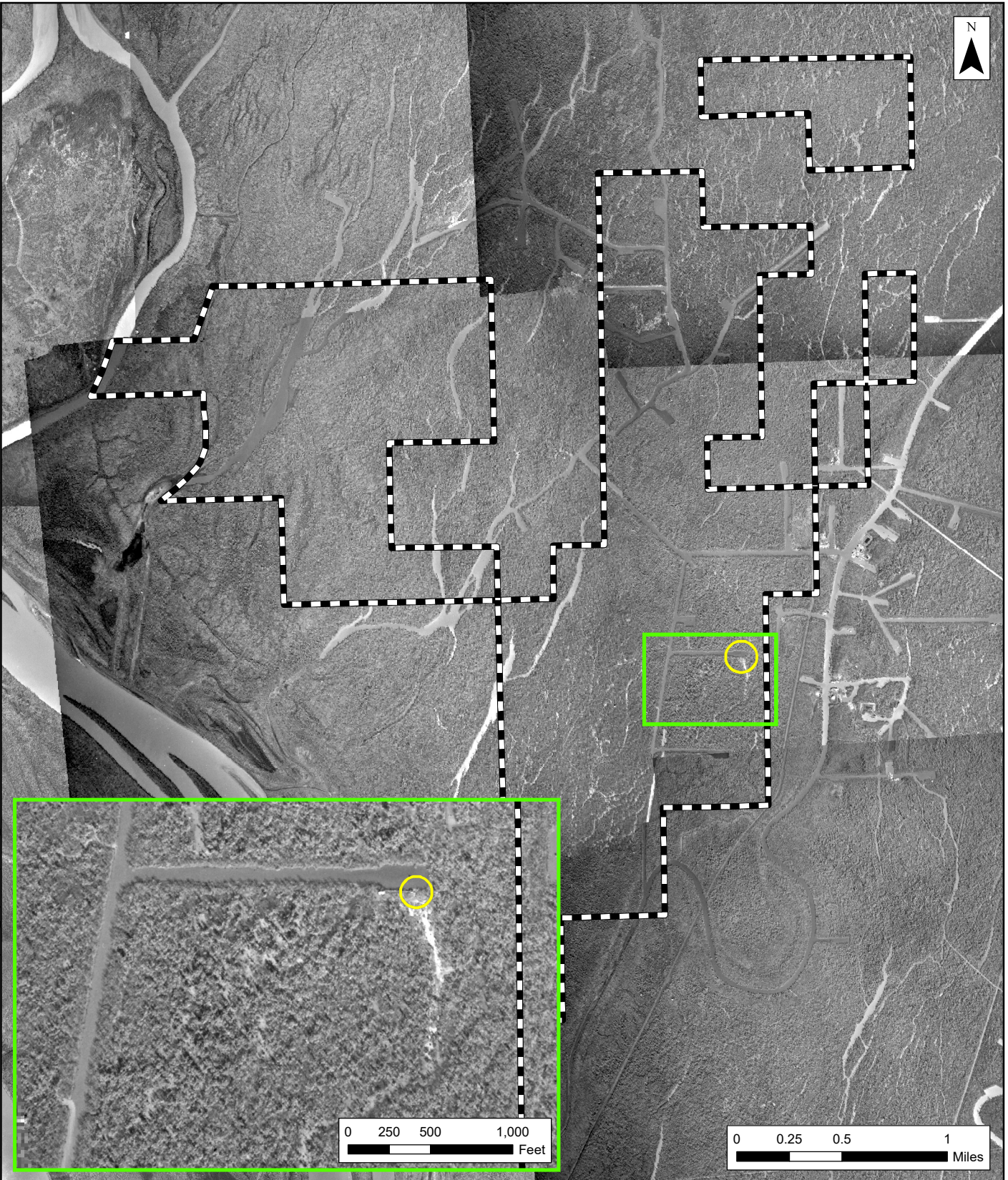
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



-  Property
-  Chevron U.S.A., Inc. Well in Petition

Notes:
 02/28/1956 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 22
1956 Aerial
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana





-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 23
1967 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



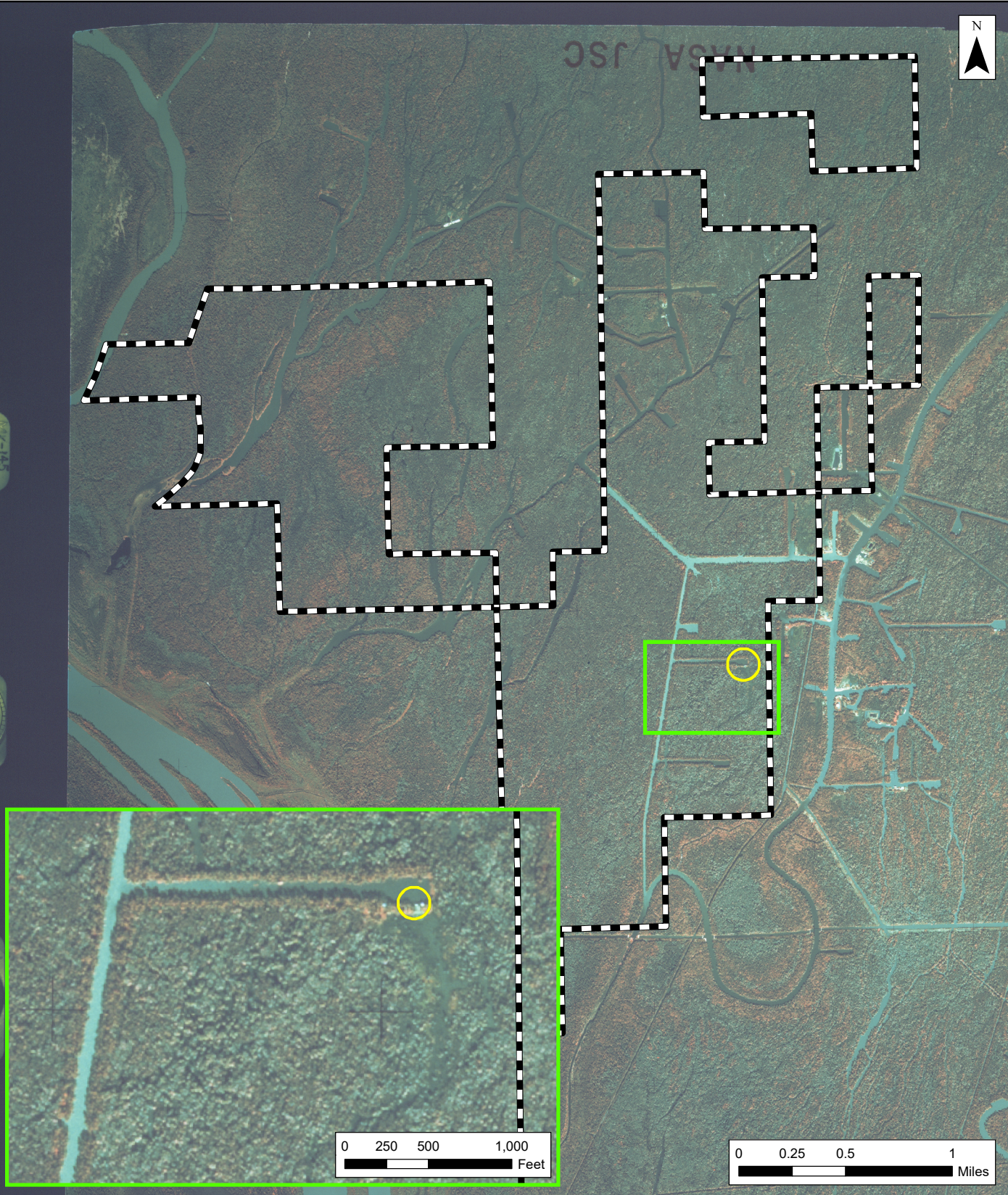
Property





Chevron U.S.A., Inc. Well in Petition

Figure 24
1968 Aerial

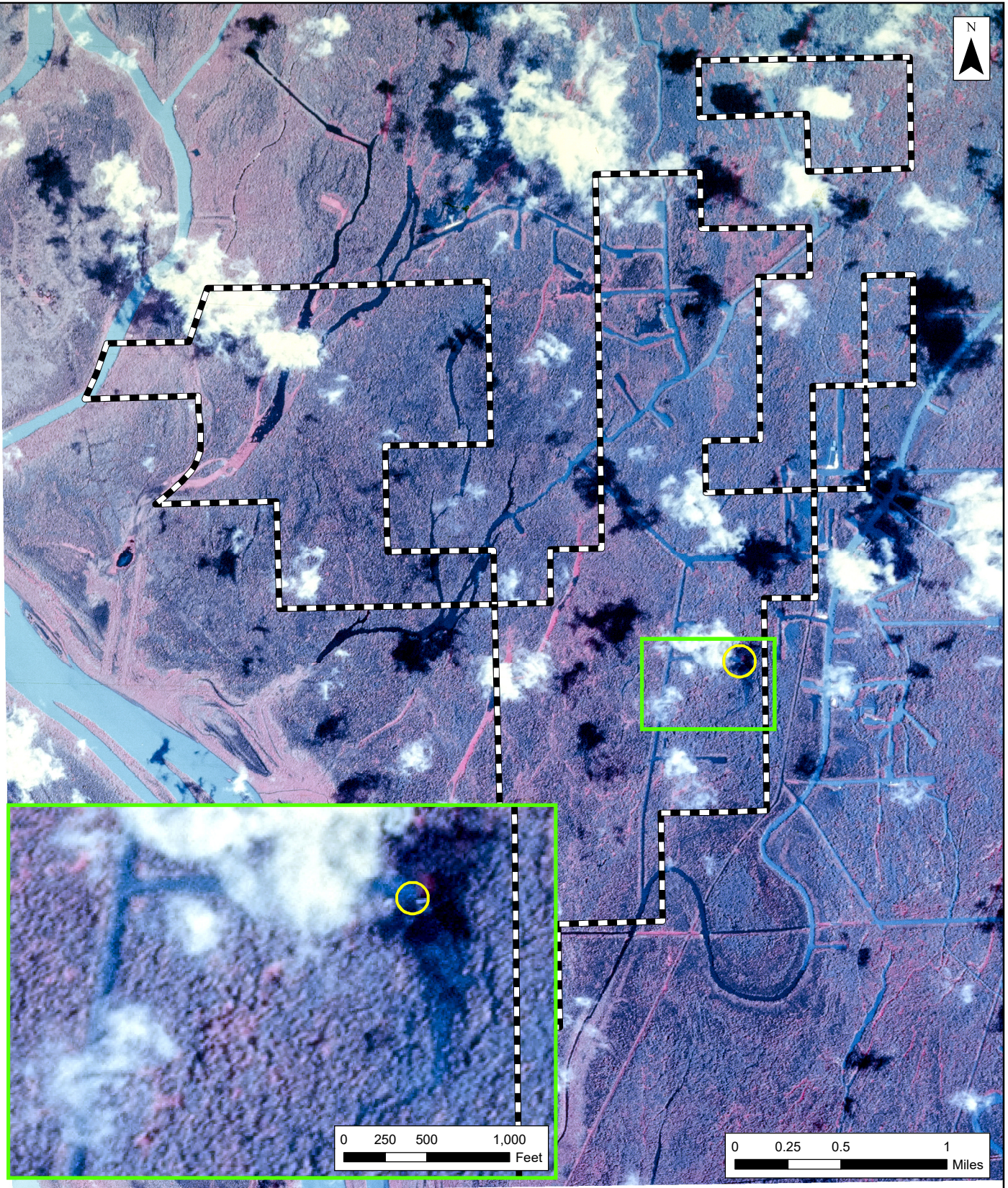
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



-  Property
-  Chevron U.S.A., Inc. Well in Petition

Notes:
 10/31/1970 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 25
1970 Aerial
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana





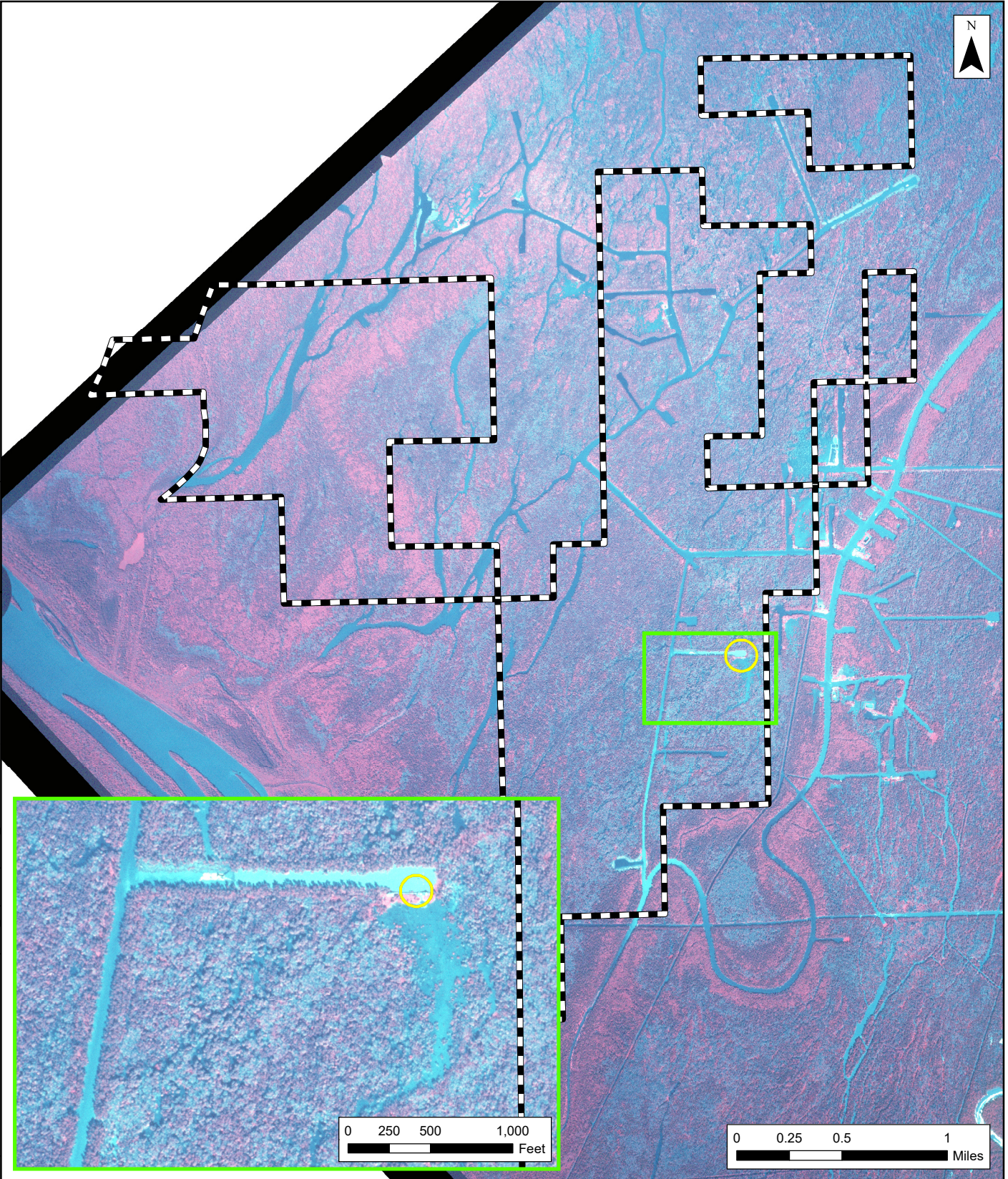
-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 26
1972 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana




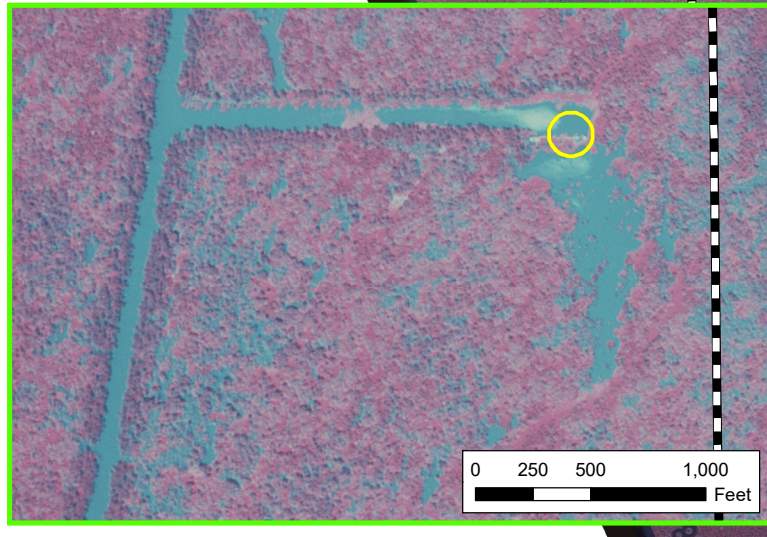
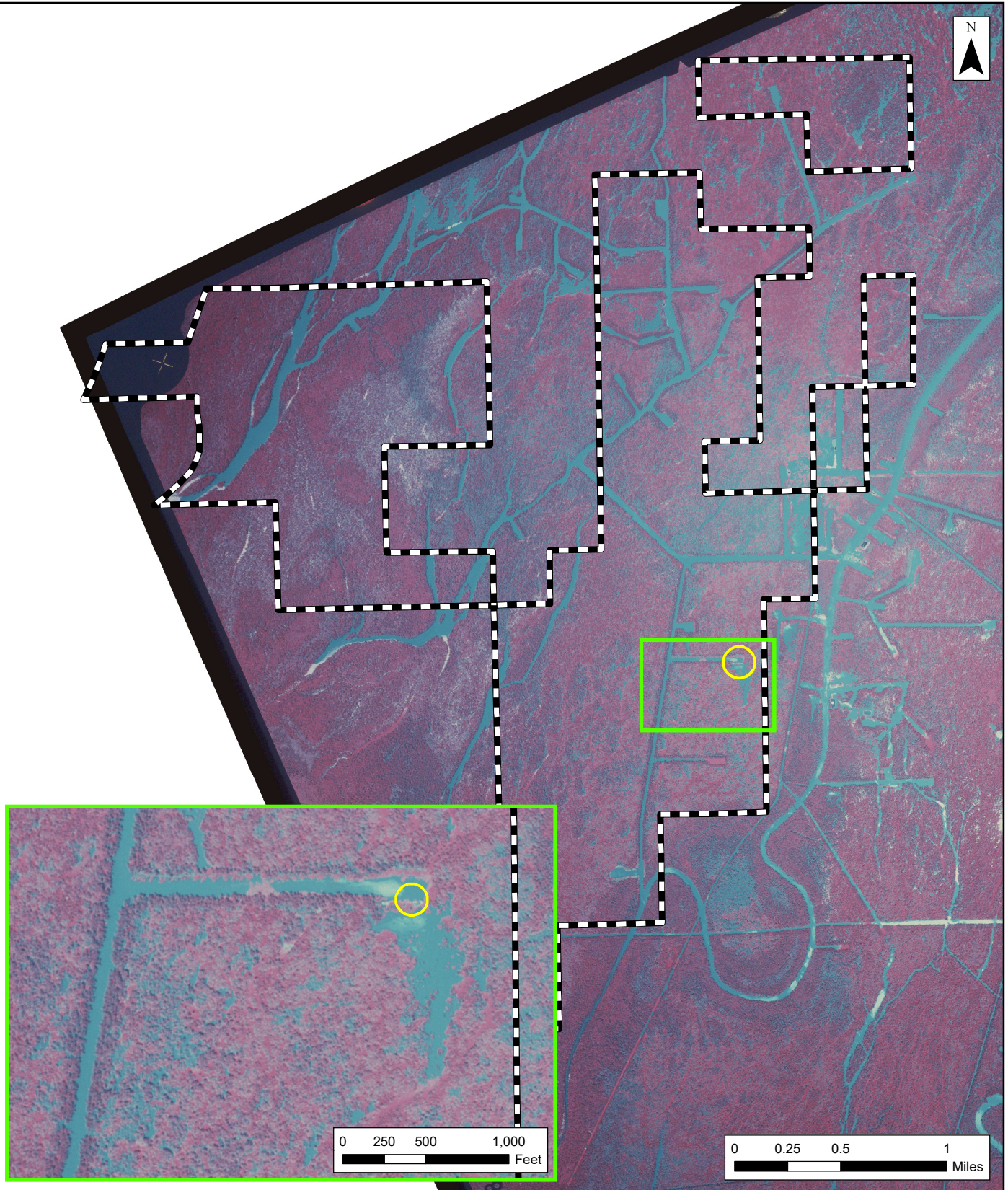

-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 27
1973 Aerial

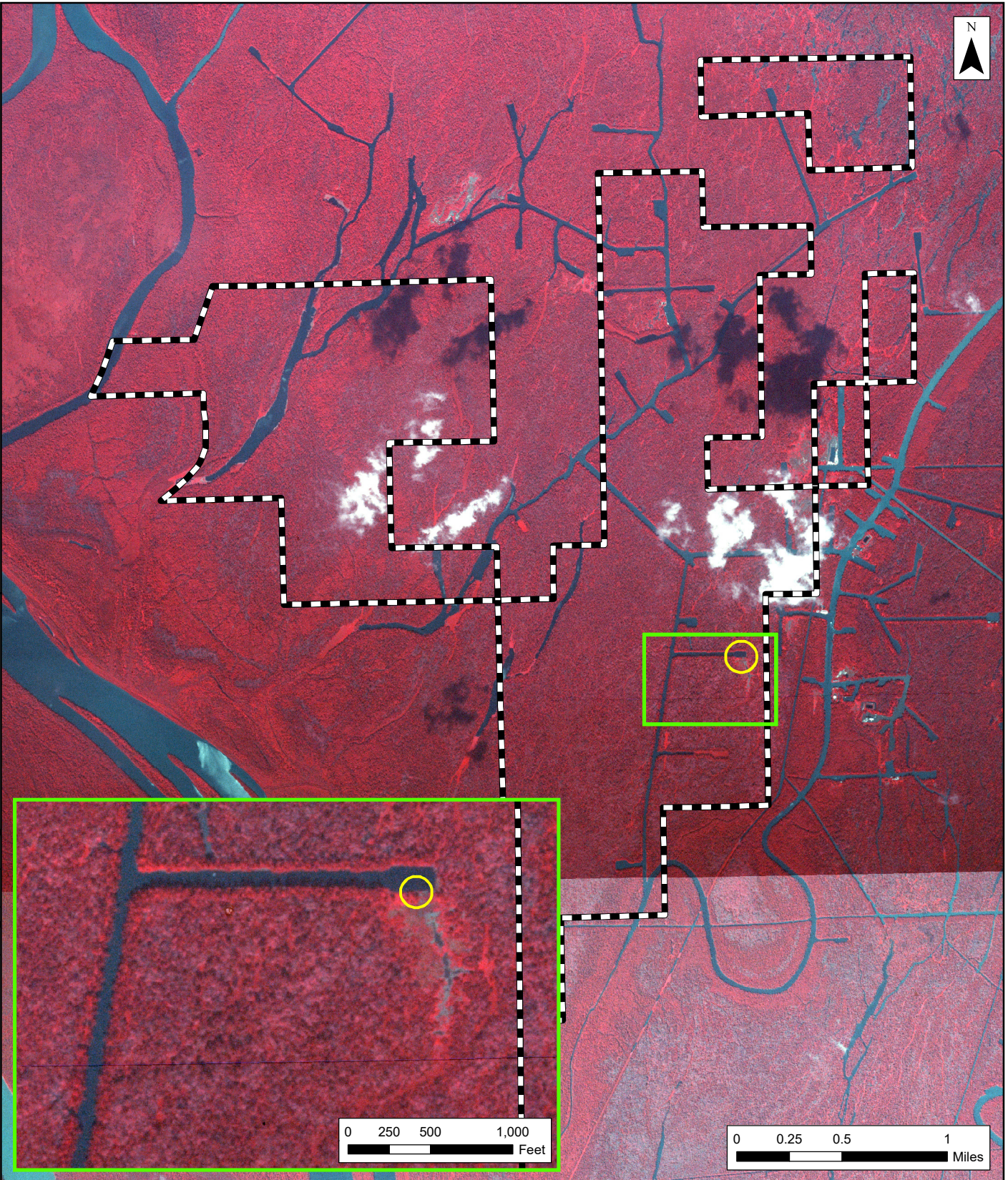
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



-  Property
-  Chevron U.S.A., Inc. Well in Petition

Notes:
 05/13/1974 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 28
1974 Aerial
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana





-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 29
1978 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



Property



Chevron U.S.A., Inc. Well in Petition

Figure 30
1979 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana

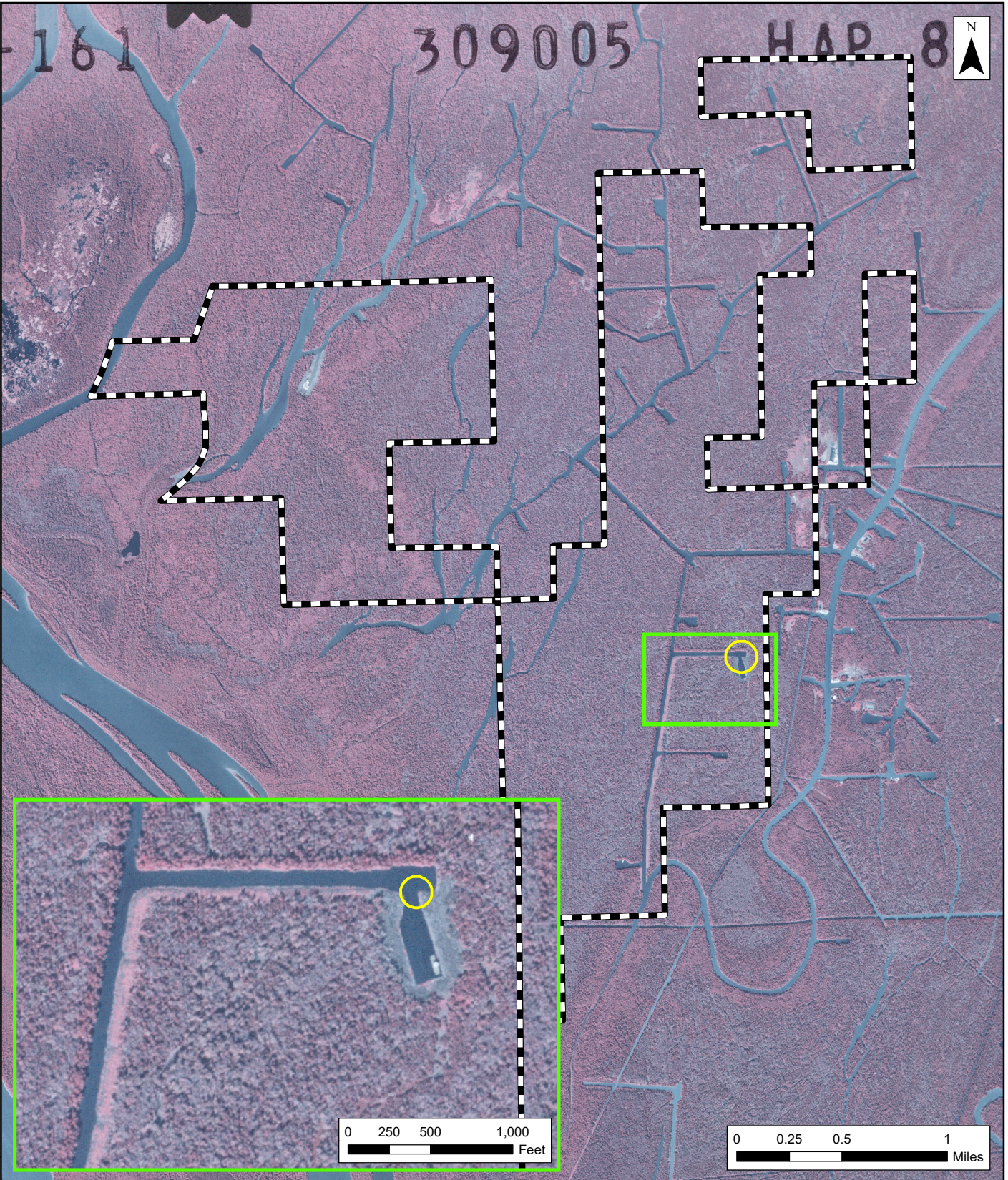
Environmental Resources Management
www.erm.com



Notes:

11/15/1979 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N




-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 31
1983 Aerial

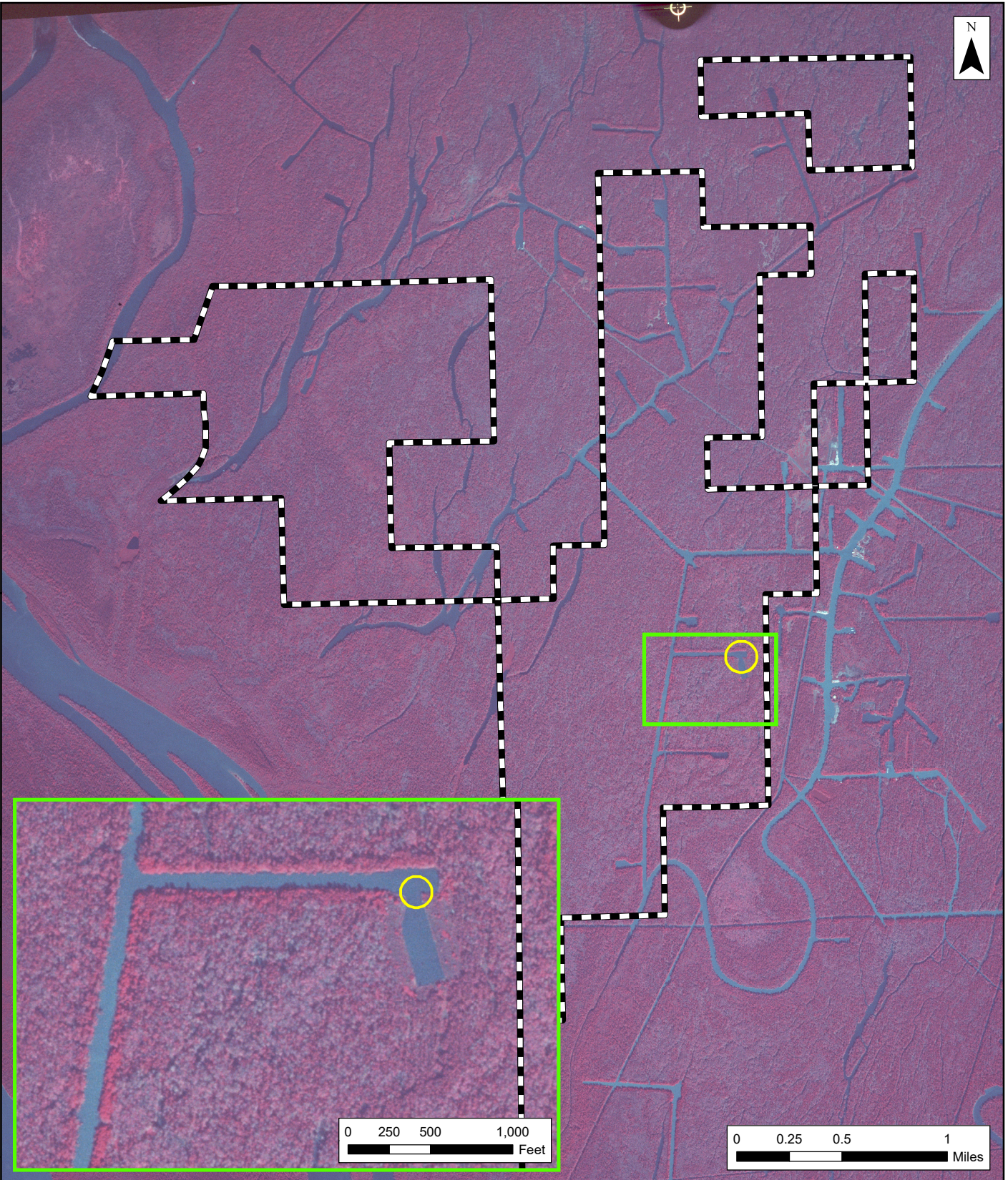
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 32
1985 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana





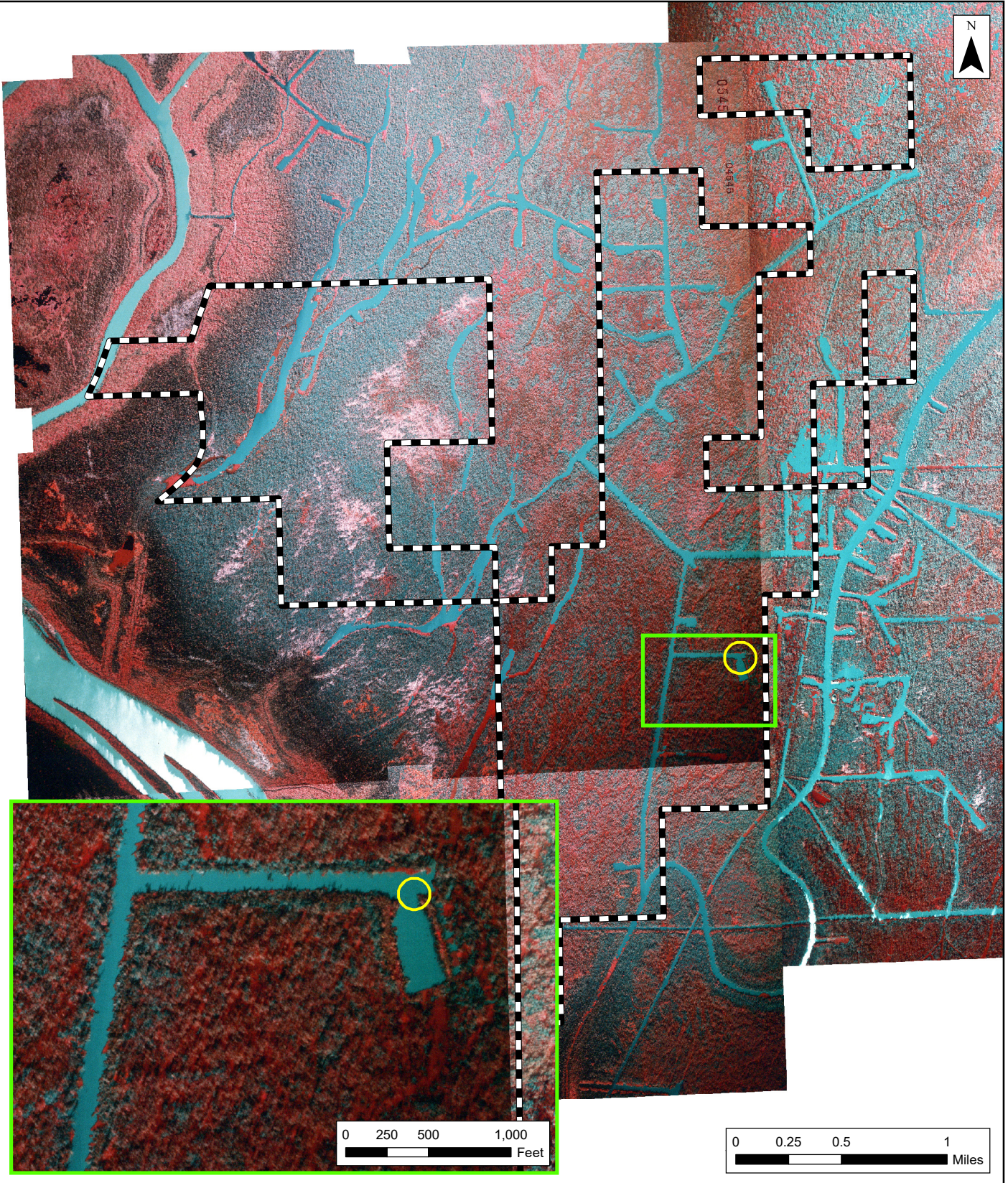


-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 33
1988 Aerial

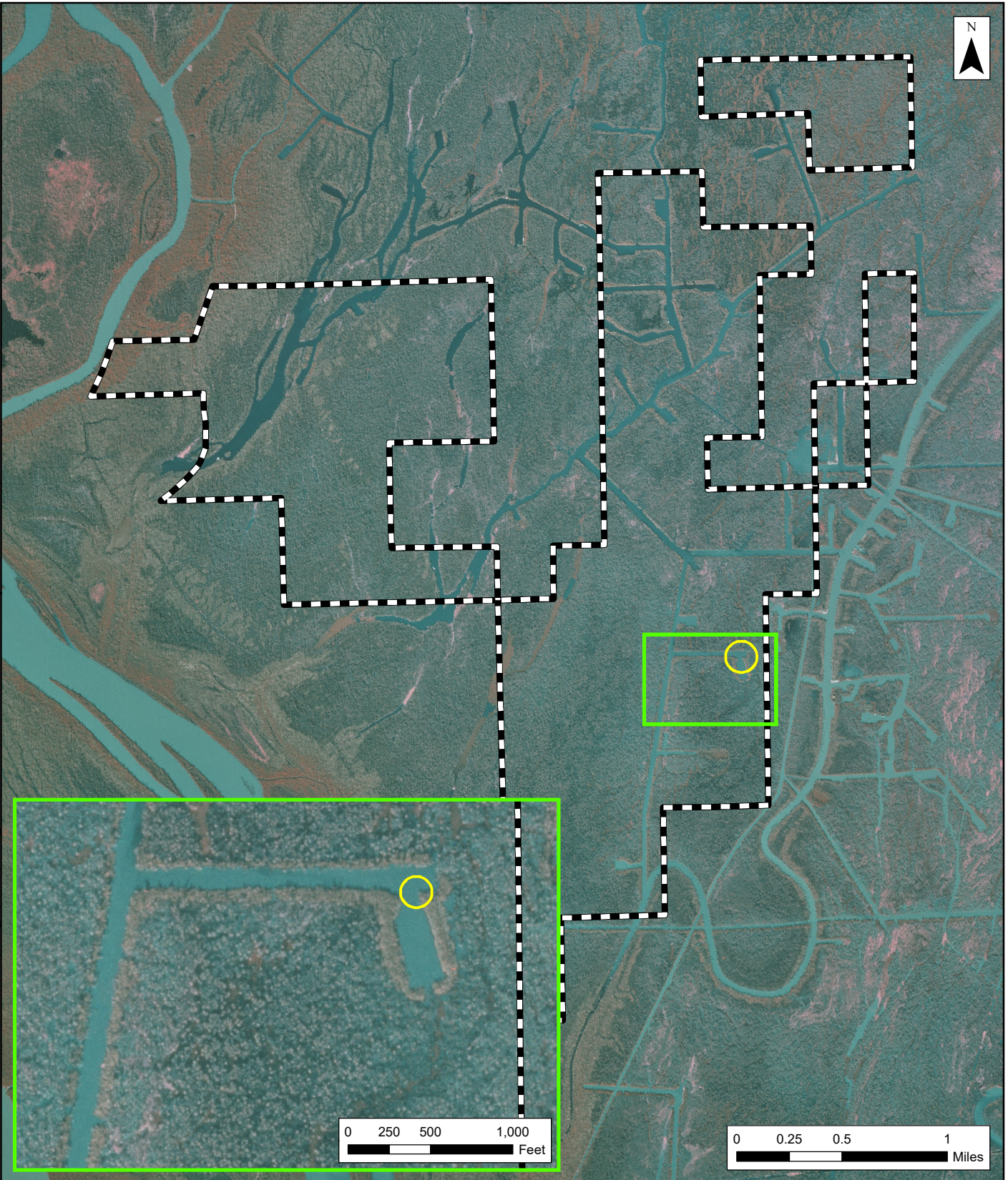
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



-  Property
-  Chevron U.S.A., Inc. Well in Petition

Notes:
 01/25/1993 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 34
1993 Aerial
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



Property



Chevron U.S.A., Inc. Well in Petition

Notes:

01/28/1995 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

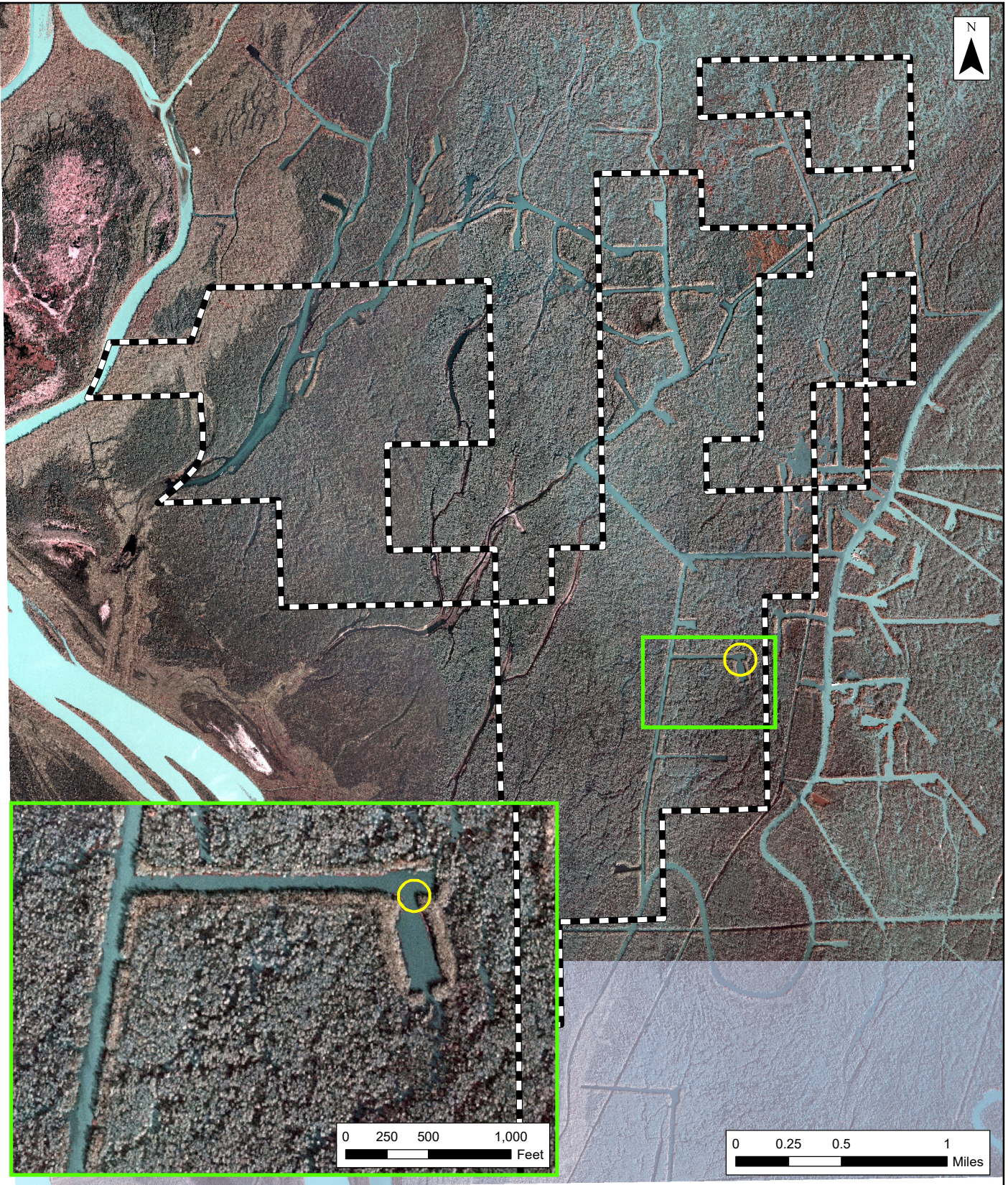
Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 35
1995 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana

Environmental Resources Management
www.erm.com

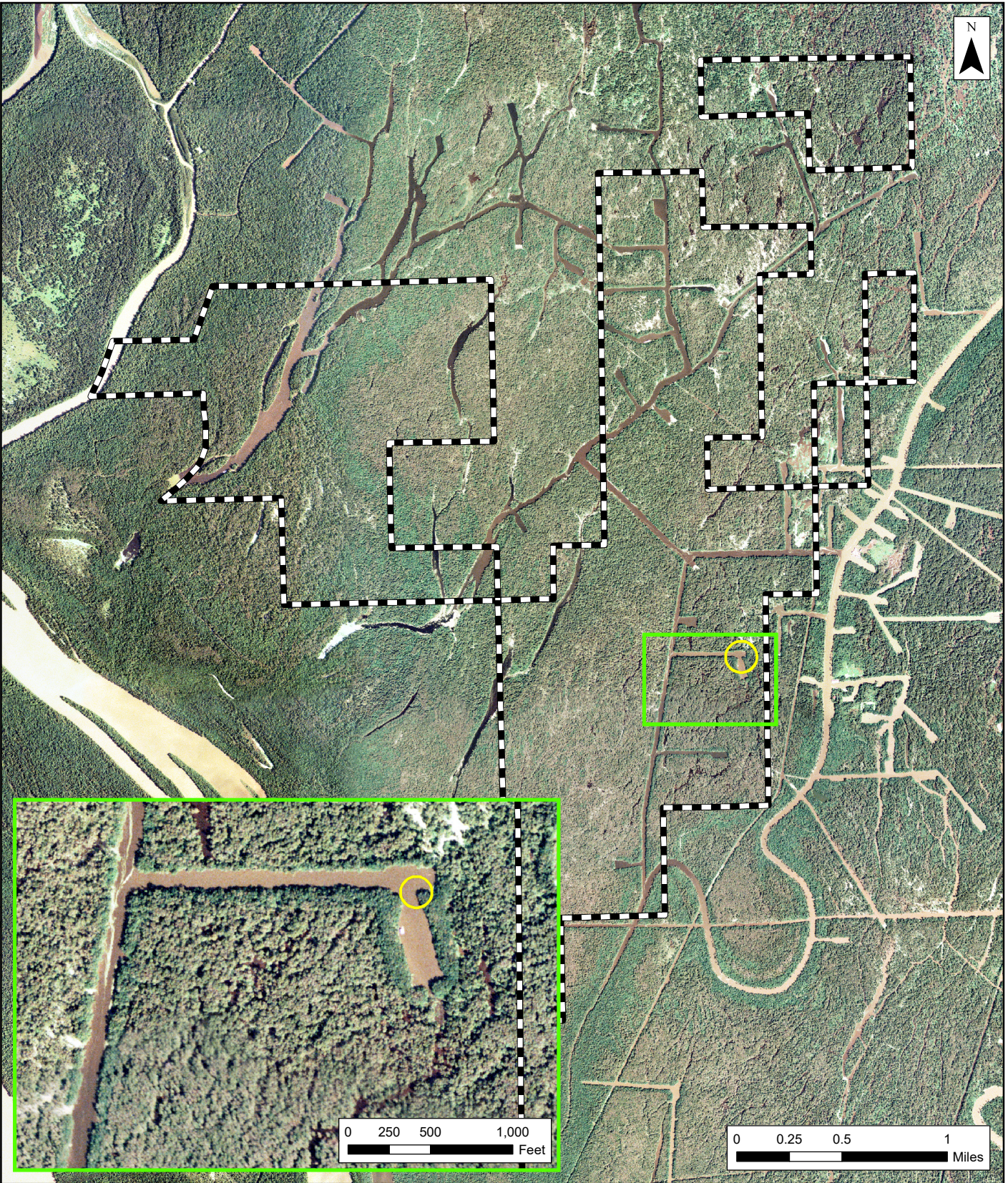




-  Property
-  Chevron U.S.A., Inc. Well in Petition

Notes:
 02/18/2004 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 36
2004 Aerial
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana





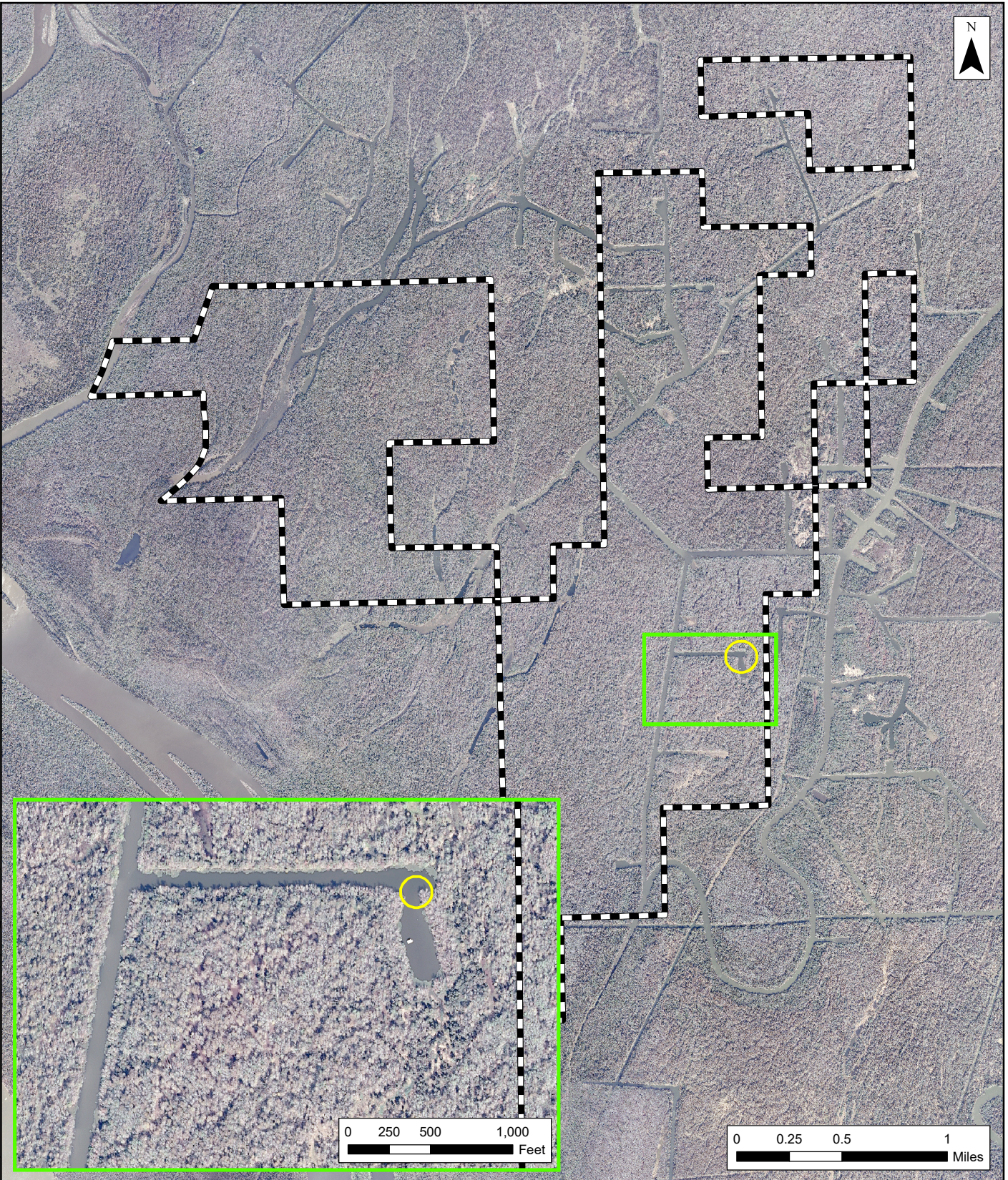
-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 37
2007 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana





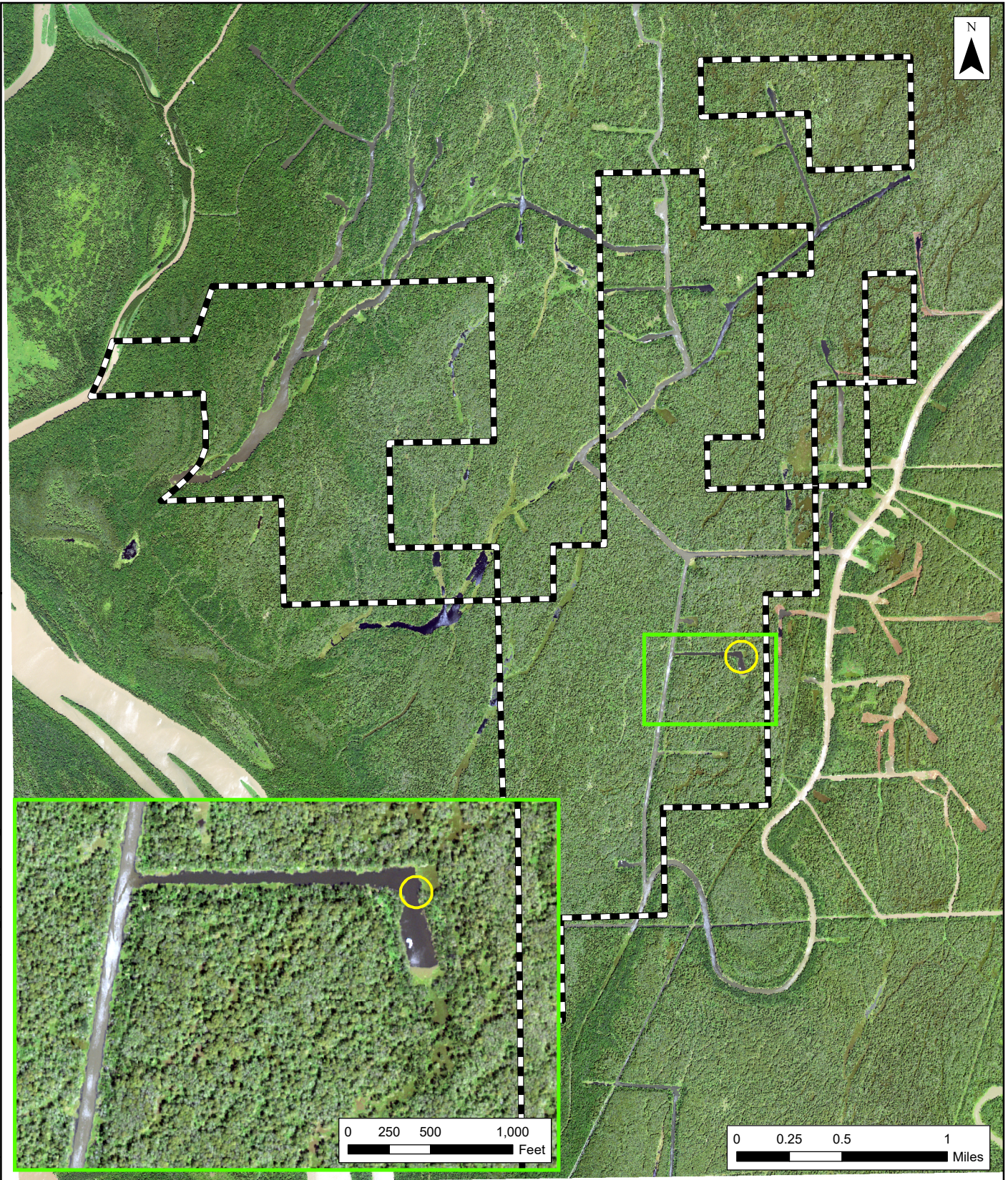
-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 38
2012 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana





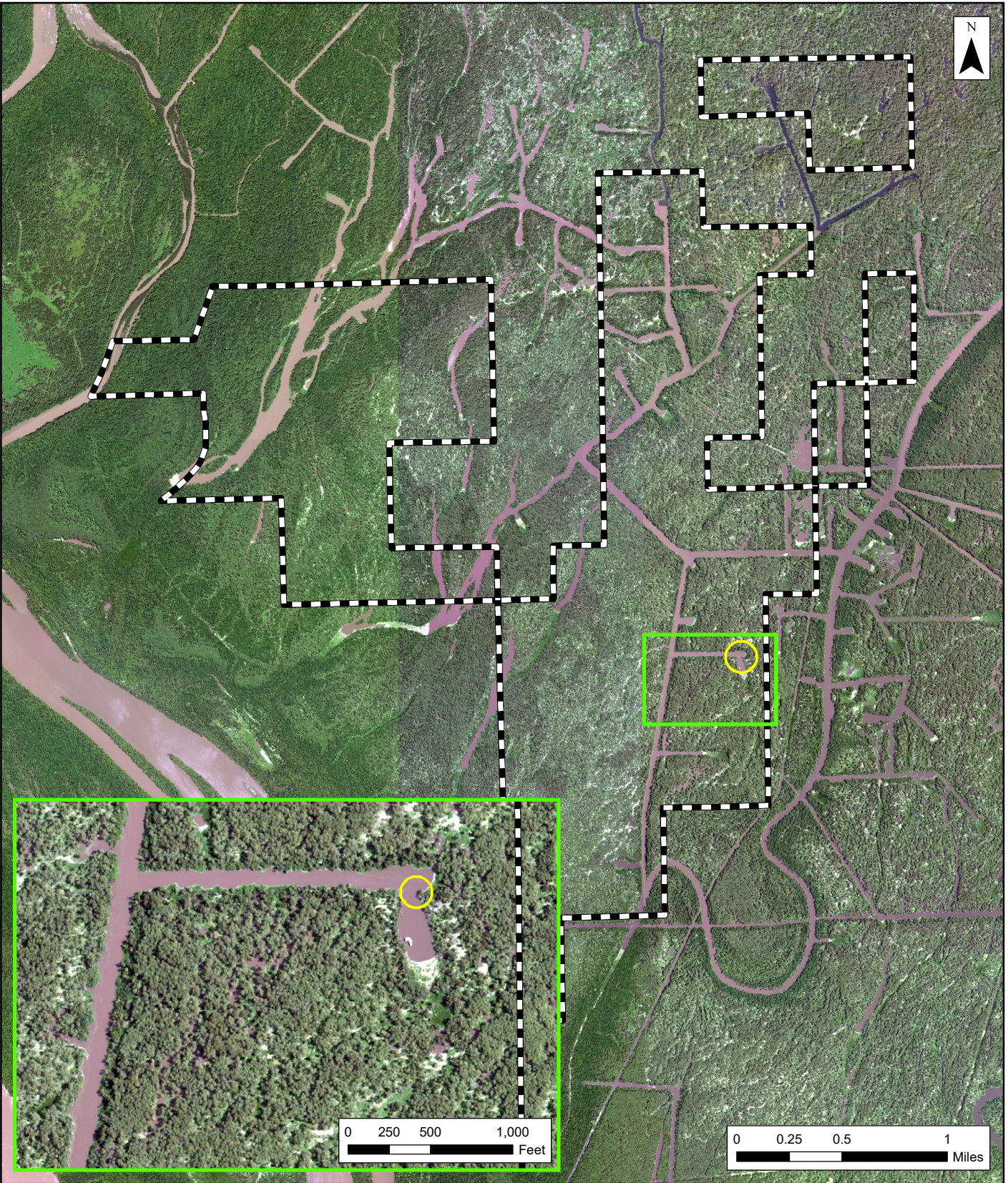
-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 39
2017 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana





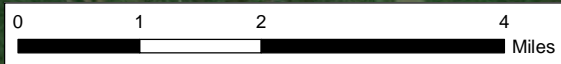
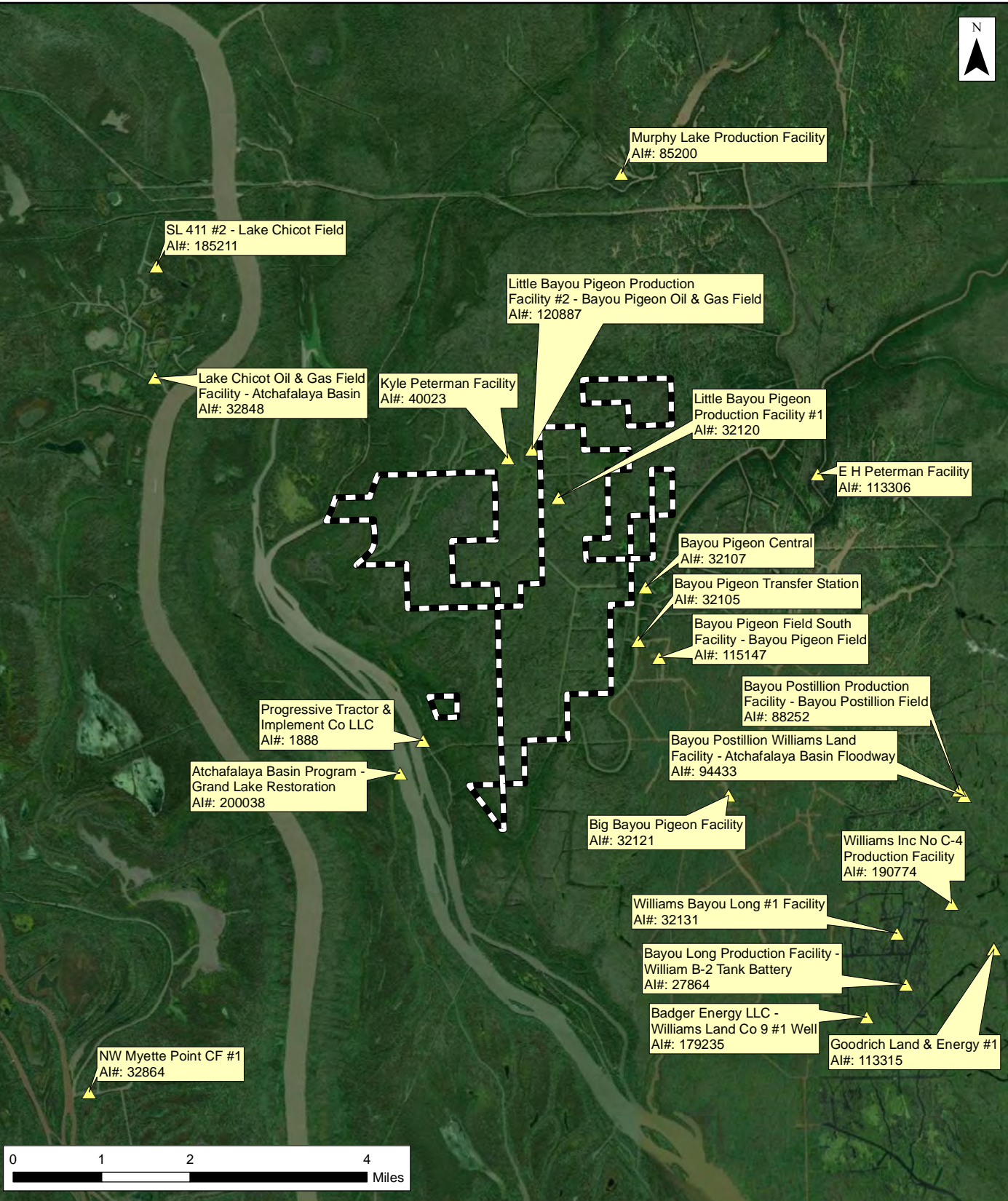
-  Property
-  Chevron U.S.A., Inc. Well in Petition

Figure 40
2019 Aerial

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



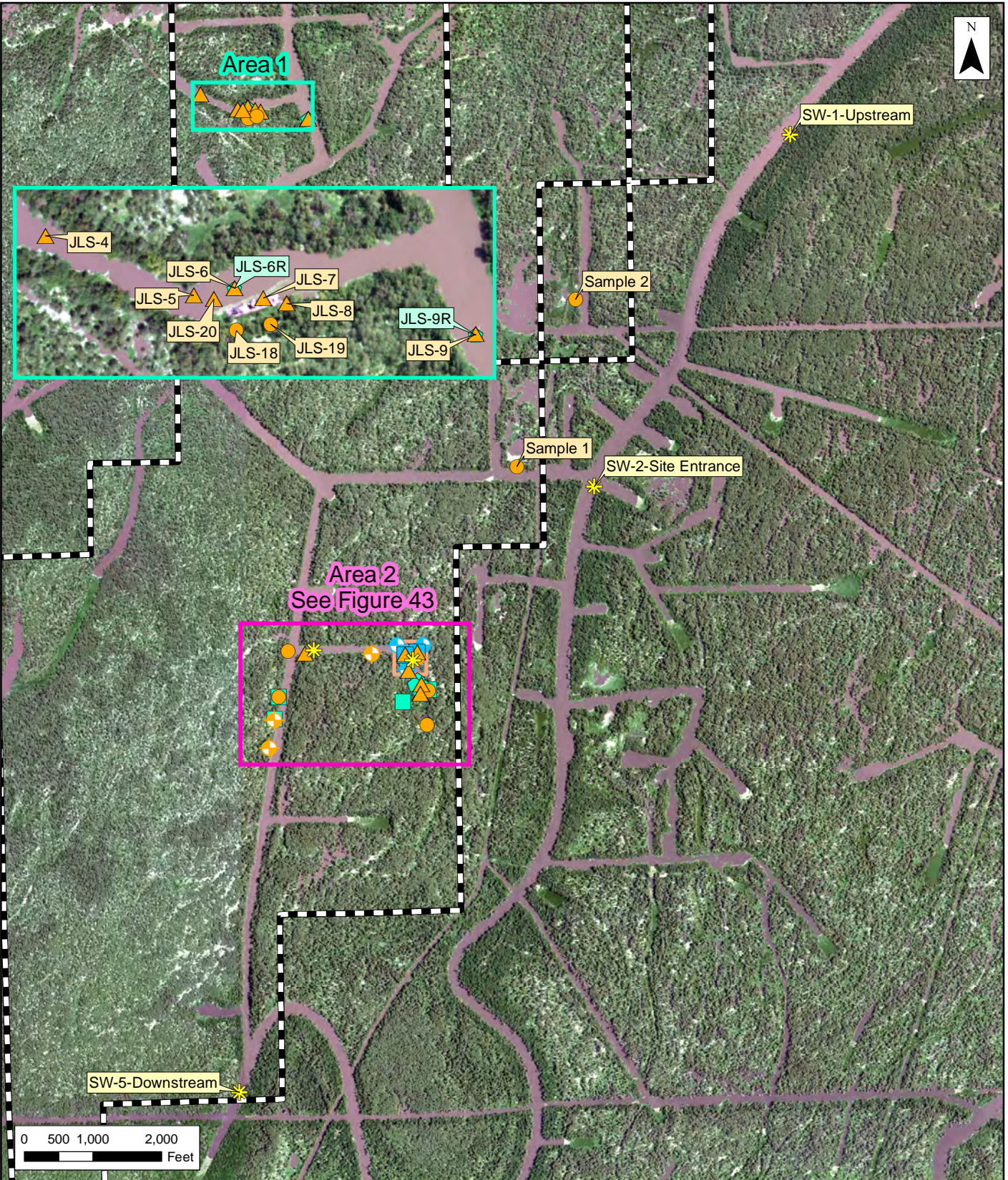
- Property
- LDEQ Agency Interest (AI) Locations

Figure 41
LDEQ AI Locations

Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



Notes:
Imagery Basemap via ArcGIS Online.
Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N



- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample

- ERM Canal Sediment Sample with Monitoring Well
 - HET Canal Sediment Sample
 - HET Soil Sample
 - ERM Surface Water Sample
- Notes:
 MW-1, MW-2, MW-3, and JSL-11 locations based on survey data from T. Baker Smith.
 All remaining locations based on field GPS readings.
 7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Figure 42
Sample Locations
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

Environmental Resources Management
www.erm.com



- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- HET Canal Sediment Sample
- HET Soil Sample
- ERM Surface Water Samples

Notes:
 MW-1, MW-2, MW-3, and JSL-11 locations based on survey data from T. Baker Smith.
 All remaining locations based on field GPS readings.
 7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Figure 43
Sample Locations - Area 2
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana








-  Property
-  Chevron Evaluation Area
-  ICON Soil Sample with Monitoring Well

Figure 44
Monitoring Wells that Purged Dry
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana

Notes:
7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).



DRAWN BY: MMG
P:\Projects\0519829 Kean Miller LLP (CYX) Jeanerette Lumber v COP.SWGIS\Maps\14 Expert Report\45 RECAP and 29-B Exceedances in Soil.mxd. REVISED: 03/30/2021. SCALE: 1:2,800 when printed at 11x17



- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- HET Canal Sediment Sample
- HET Soil Sample

Chevron U.S.A., Inc. Well SN 70817

Sample ID
Sample Date
Interval
Constituent: ERM Result / ICON Result / HET Result

Notes:
 Only exceedances and corresponding split data are shown
 Concentrations reported as mg/kg-wet.
 NA - Not analyzed, ND - Non-detect
 Exceedances of RECAP SOIL_SSGW and/or RECAP SOIL_SSnI standards are **bold**.
 Blue labels - ERM Samples, Orange labels - ICON Samples, Green labels - HET Samples
 7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Figure 45
RECAP and 29-B Exceedances in Soil
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



JLS-16	
8/6/2020	
Depth	ICON
0-4'	99
4-6'	120
6-8'	78

JLS-3			
5/26/2020			
Depth	ERM	HET	ICON
0-2'	106	113	123

MW-1		
2/5/2021		
Depth	ERM	ICON
0-2'	104	NA
2-4'	104	146
24-26'	45.3	NA

MW-3	
2/4/2021	
Depth	ERM
0-2'	99.9
2-4'	91.5
24-26'	38.9

JLS-23		
9/8/2020		
Depth	ERM	ICON
0-2'	178	115
2-4'	302	260

JLS-2			
5/26/2020			
Depth	ERM	HET	ICON
0-2'	268	141	244
2-4'	734	263	537
4-6'	825	89.3	525

JLS-11	
7/30/2020	
Depth	ICON
0-4'	238
8-12'	104

MW-2	
2/5/2021	
Depth	ERM
0-2'	108
2-4'	112

JLS-22		
9/8/2020		
Depth	ERM	ICON
0-2'	162	157
2-4'	139	160

JLS-1		
5/26/2020		
Depth	HET	ICON
0-2'	104	166
2-4'	77.5	364
4-5'	74.8	210

JLS-1R		
1/13/2021		
Depth	HET	ICON
0-2'	74.8	159
2-4'	235	212
4-6'	93.2	88

JLS-15	
8/6/2020	
Depth	ICON
0-4'	110
8-12'	77

JLS-15R

JLS-14	
8/5/2020	
Depth	ICON
2-4'	73
4-8'	125
8-12'	97

JLS-14R

JLS-17	
8/7/2020	
Depth	ICON
0-4'	104
4-8'	131

JLS-10

SB-4

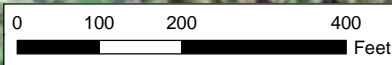
SB-3		
1/13/2021		
Depth	HET	ICON
0-2'	92.5	84
2-4'	73.1	140
4-6'	57.3	122

SB-1		
1/13/2021		
Depth	HET	ICON
0-2'	56.5	66
2-4'	200	143
4-6'	103	213

JLS-12	
8/3/2020	
Depth	ICON
0-4'	277
8-12'	96

JLS-12R	
1/14/2021	
Depth	HET
0-2'	151
2-4'	144

JLS-13	
8/4/2020	
Depth	ICON
0-4'	92
6-8'	107
10-12'	96



- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- HET Canal Sediment Sample
- HET Soil Sample

Chevron U.S.A., Inc. Well SN 70817

Figure 46
Barium Concentrations in Soil and Sediment
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

Notes:
 Units are mg/kg-wet.
Bold blue values exceed the limiting RECAP screening standard.
 NA - Not analyzed
 7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).



Sample ID	JLS-3	
Sample Date	5/26/2020	
Interval (ft)	0-2	
Parameter	ERM	HET
Ali C6-C8	NA	<15.0
Ali >C8-C10	NA	<15.0
Ali >C10-C12	<6.00	<15.0
Ali >C12-C16	<6.00	<10.0
Ali >C16-C35	<6.00	<10.0
Aro >C8-C10	NA	<10.0
Aro >C10-C12	<6.00	<10.0
Aro >C12-C16	<6.00	<15.0
Aro >C16-C21	<6.00	<15.0
Aro >C21-C35	<6.00	<15.0

Sample ID	MW-1		
Sample Date	2/5/2021		
Interval (ft)	0-2	2-4	24-26
Parameter	ERM	ERM	ERM
Ali C6-C8	<52.3	<55.6	<33.6
Ali >C8-C10	<52.3	<55.6	<33.6
Ali >C10-C12	<5.88	<6	<6
Ali >C12-C16	<5.88	<6	<6
Ali >C16-C35	<5.88	<6	<6
Aro >C8-C10	<53.1	<54.2	<33.6
Aro >C10-C12	<5.88	<6	<6
Aro >C12-C16	<5.88	<6	<6
Aro >C16-C21	<5.88	<6	<6
Aro >C21-C35	<5.88	<6	<6

Sample ID	MW-3		
Sample Date	2/4/2021		
Interval (ft)	0-2	2-4	24-26
Parameter	ERM	ERM	ERM
Ali C6-C8	<60.8	<54.4	<32.8
Ali >C8-C10	<60.8	<54.4	<32.8
Ali >C10-C12	<6	<5.83	<6
Ali >C12-C16	<6	<5.83	<6
Ali >C16-C35	<6	<5.83	<6
Aro >C8-C10	<52	<56	<42.3
Aro >C10-C12	<6	<5.83	<6
Aro >C12-C16	<6	<5.83	<6
Aro >C16-C21	<6	<5.83	<6
Aro >C21-C35	<6	<5.83	<6

Sample ID	JLS-23	
Sample Date	9/8/2020	
Interval (ft)	0-2	2-4
Parameter	ERM	ERM
Ali C6-C8	NA	NA
Ali >C8-C10	NA	NA
Ali >C10-C12	<3.00	<5.98
Ali >C12-C16	<3.00	<5.98
Ali >C16-C35	10.9	<5.98
Aro >C8-C10	NA	NA
Aro >C10-C12	<3.00	<5.98
Aro >C12-C16	<3.00	<5.98
Aro >C16-C21	<3.00	<5.98
Aro >C21-C35	<3.00	9.42

Sample ID	JLS-2								
Sample Date	5/26/2020			2/8/2021			2/25/2021		
Interval (ft)	0-2		2-4		4-6		4-6	6-8	5-11
Parameter	ERM	HET	ERM	HET	ERM	HET	ERM	ERM	ERM
Ali C6-C8	NA	<15.0	NA	<15.0	NA	<15.0	181	<50.2	<46.3
Ali >C8-C10	NA	<15.0	NA	<15.0	NA	<15.0	313	243	69.3
Ali >C10-C12	<6.00	<15.0	<6.00	<15.0	<5.88	46.5	27.6	11.7	<5.88
Ali >C12-C16	<6.00	<10.0	11.4	28	<5.88	188	88.9	48.9	<5.88
Ali >C16-C35	9.12	<10.0	<6.00	89.3	10.9	329	149	90.8	<5.88
Aro >C8-C10	NA	<10.0	NA	<10.0	NA	<10.0	216	134	<46.3
Aro >C10-C12	<6.00	<10.0	<6.00	<10.0	<5.88	<10.0	<6	<6	<5.88
Aro >C12-C16	<6.00	<15.0	<6.00	17.2	<5.88	20.9	12.3	12.6	<5.88
Aro >C16-C21	<6.00	<15.0	<6.00	22.6	<5.88	24.2	11.3	9.86	<5.88
Aro >C21-C35	<6.00	<15.0	22.1	38	<5.88	59.4	41.1	29.9	<5.88

Sample ID	MW-2	
Sample Date	2/5/2021	
Interval (ft)	0-2	2-4
Parameter	ERM	ERM
Ali C6-C8	<53.5	<51.1
Ali >C8-C10	<53.5	<51.1
Ali >C10-C12	<5.83	<6
Ali >C12-C16	<5.83	<6
Ali >C16-C35	<5.83	10.9
Aro >C8-C10	<41.5	<52.2
Aro >C10-C12	<5.83	<6
Aro >C12-C16	<5.83	<6
Aro >C16-C21	<5.83	<6
Aro >C21-C35	<5.83	<6

Sample ID	JLS-1		
Sample Date	5/26/2020		
Interval (ft)	0-2	2-4	4-5
Parameter	HET	HET	HET
Ali C6-C8	<15.0	<15.0	<15.0
Ali >C8-C10	<15.0	<15.0	<15.0
Ali >C10-C12	<15.0	<15.0	<15.0
Ali >C12-C16	<10.0	22.4	<10.0
Ali >C16-C35	<10.0	74.2	<10.0
Aro >C8-C10	<10.0	<10.0	<10.0
Aro >C10-C12	<10.0	<10.0	<10.0
Aro >C12-C16	<15.0	<15.0	<15.0
Aro >C16-C21	<15.0	<15.0	<15.0
Aro >C21-C35	<15.0	24.2	<15.0

Sample ID	JLS-22	
Sample Date	9/8/2020	
Interval (ft)	0-2	2-4
Parameter	ERM	ERM
Ali C6-C8	NA	NA
Ali >C8-C10	NA	NA
Ali >C10-C12	<2.99	<6.00
Ali >C12-C16	<2.99	<6.00
Ali >C16-C35	<2.99	<6.00
Aro >C8-C10	NA	NA
Aro >C10-C12	<2.99	<6.00
Aro >C12-C16	<2.99	<6.00
Aro >C16-C21	<2.99	<6.00
Aro >C21-C35	<2.99	<6.00

Sample ID	JLS-21	
Sample Date	9/8/2020	
Interval (ft)	0-2	2-4
Parameter	HET	HET
Ali C6-C8	<15.0	<15.0
Ali >C8-C10	<15.0	<15.0
Ali >C10-C12	<15.0	<15.0
Ali >C12-C16	<10.0	<10.0
Ali >C16-C35	<10.0	16.8
Aro >C8-C10	<10.0	<10.0
Aro >C10-C12	<10.0	<10.0
Aro >C12-C16	<15.0	<15.0
Aro >C16-C21	<15.0	<15.0
Aro >C21-C35	<15.0	15

- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- HET Canal Sediment Sample
- HET Soil Sample

Chevron U.S.A., Inc. Well SN 70817

Notes:
Units are mg/kg-wet.
Bold blue values exceed the limiting RECAP screening standard.
NA - Not analyzed
7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Figure 47
TPH Fraction Concentrations in Soil and Sediment
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana

Sample ID	MW-1		
Sample Date	2/5/2021		
Interval (ft)	0-2	2-4	24-26
Parameter	ERM	ERM	ERM
2-Methylnaphthalene	<0.00328	<0.00330	<0.00326
Acenaphthene	<0.00656	<0.00660	<0.00651
Acenaphthylene	<0.00656	<0.00660	<0.00651
Anthracene	<0.00328	<0.00330	<0.00326
Benzo(a)anthracene	<0.00656	<0.00660	<0.00651
Benzo(a)pyrene	<0.00328	<0.00330	<0.00326
Benzo(b)fluoranthene	<0.00656	<0.00660	<0.00651
Benzo(k)fluoranthene	<0.00328	<0.00330	<0.00326
Chrysene	<0.00656	<0.00660	<0.00651
Dibenz(a,h)anthracene	<0.00656	<0.00660	<0.00651
Fluoranthene	<0.00328	<0.00330	<0.00326
Fluorene	<0.00328	<0.00330	<0.00326
Indeno(1,2,3-cd)pyrene	<0.00328	<0.00330	<0.00326
Naphthalene	<0.00328	<0.00330	<0.00326
Phenanthrene	<0.00328	<0.00330	<0.00326
Pyrene	<0.00328	<0.00330	<0.00326

Sample ID	MW-3		
Sample Date	2/4/2021		
Interval (ft)	0-2	2-4	24-26
Parameter	ERM	ERM	ERM
2-Methylnaphthalene	<0.00326	<0.00326	<0.00326
Acenaphthene	<0.00651	<0.00651	<0.00651
Acenaphthylene	<0.00651	<0.00651	<0.00651
Anthracene	<0.00326	<0.00326	<0.00326
Benzo(a)anthracene	<0.00651	<0.00651	<0.00651
Benzo(a)pyrene	<0.00326	<0.00326	<0.00326
Benzo(b)fluoranthene	<0.00651	<0.00651	<0.00651
Benzo(k)fluoranthene	<0.00326	<0.00326	<0.00326
Chrysene	<0.00651	<0.00651	<0.00651
Dibenz(a,h)anthracene	<0.00651	<0.00651	<0.00651
Fluoranthene	<0.00326	<0.00326	<0.00326
Fluorene	<0.00326	<0.00326	<0.00326
Indeno(1,2,3-cd)pyrene	<0.00326	<0.00326	<0.00326
Naphthalene	<0.00326	<0.00326	<0.00326
Phenanthrene	<0.00326	<0.00326	<0.00326
Pyrene	<0.00326	<0.00326	<0.00326

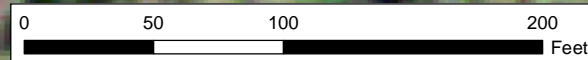
Sample ID	JLS-2					
Sample Date	2/8/2021			2/25/2021		
Interval (ft)	0-2	2-4	4-6	6-8	0-5	5-11
Parameter	ERM	ERM	ERM	ERM	ERM	ERM
2-Methylnaphthalene	<0.00326	<0.00324	0.7	0.46	0.014	<0.00326
Acenaphthene	0.015	<0.00647	0.132	0.099	<0.00660	<0.00651
Acenaphthylene	<0.00651	<0.00647	<0.065	<0.066	<0.00660	<0.00651
Anthracene	<0.00326	<0.00324	<0.033	<0.033	<0.00330	<0.00326
Benzo(a)anthracene	0.00984	<0.00647	<0.065	<0.066	<0.00660	<0.00651
Benzo(a)pyrene	<0.00326	<0.00324	<0.033	<0.033	<0.00330	<0.00326
Benzo(b)fluoranthene	<0.00651	<0.00647	<0.065	<0.066	<0.00660	<0.00651
Benzo(k)fluoranthene	<0.00326	<0.00324	<0.033	<0.033	<0.00330	<0.00326
Chrysene	0.014	<0.00647	0.076	<0.066	<0.00660	<0.00651
Dibenz(a,h)anthracene	<0.00651	<0.00647	<0.065	<0.066	<0.00660	<0.00651
Fluoranthene	0.042	0.018	0.252	0.233	0.00922	0.00457
Fluorene	0.012	0.00732	0.441	0.212	0.014	<0.00326
Indeno(1,2,3-cd)pyrene	0.00414	<0.00324	<0.033	<0.033	<0.00330	<0.00326
Naphthalene	<0.00326	<0.00324	0.177	0.163	<0.00330	<0.00326
Phenanthrene	0.026	0.015	0.381	0.345	0.013	0.00436
Pyrene	0.04	0.015	0.148	0.136	0.00645	0.00397

Sample ID	MW-2	
Sample Date	2/5/2021	
Interval (ft)	0-2	2-4
Parameter	ERM	ERM
2-Methylnaphthalene	<0.00324	<0.00330
Acenaphthene	<0.00647	<0.00660
Acenaphthylene	<0.00647	<0.00660
Anthracene	<0.00324	<0.00330
Benzo(a)anthracene	<0.00647	<0.00660
Benzo(a)pyrene	0.00407	<0.00330
Benzo(b)fluoranthene	<0.00647	<0.00660
Benzo(k)fluoranthene	0.00562	<0.00330
Chrysene	<0.00647	<0.00660
Dibenz(a,h)anthracene	<0.00647	<0.00660
Fluoranthene	<0.00324	<0.00330
Fluorene	<0.00324	<0.00330
Indeno(1,2,3-cd)pyrene	0.00551	<0.00330
Naphthalene	<0.00324	<0.00330
Phenanthrene	<0.00324	<0.00330
Pyrene	<0.00324	<0.00330

JLS-23 ▲

JLS-11 ▲

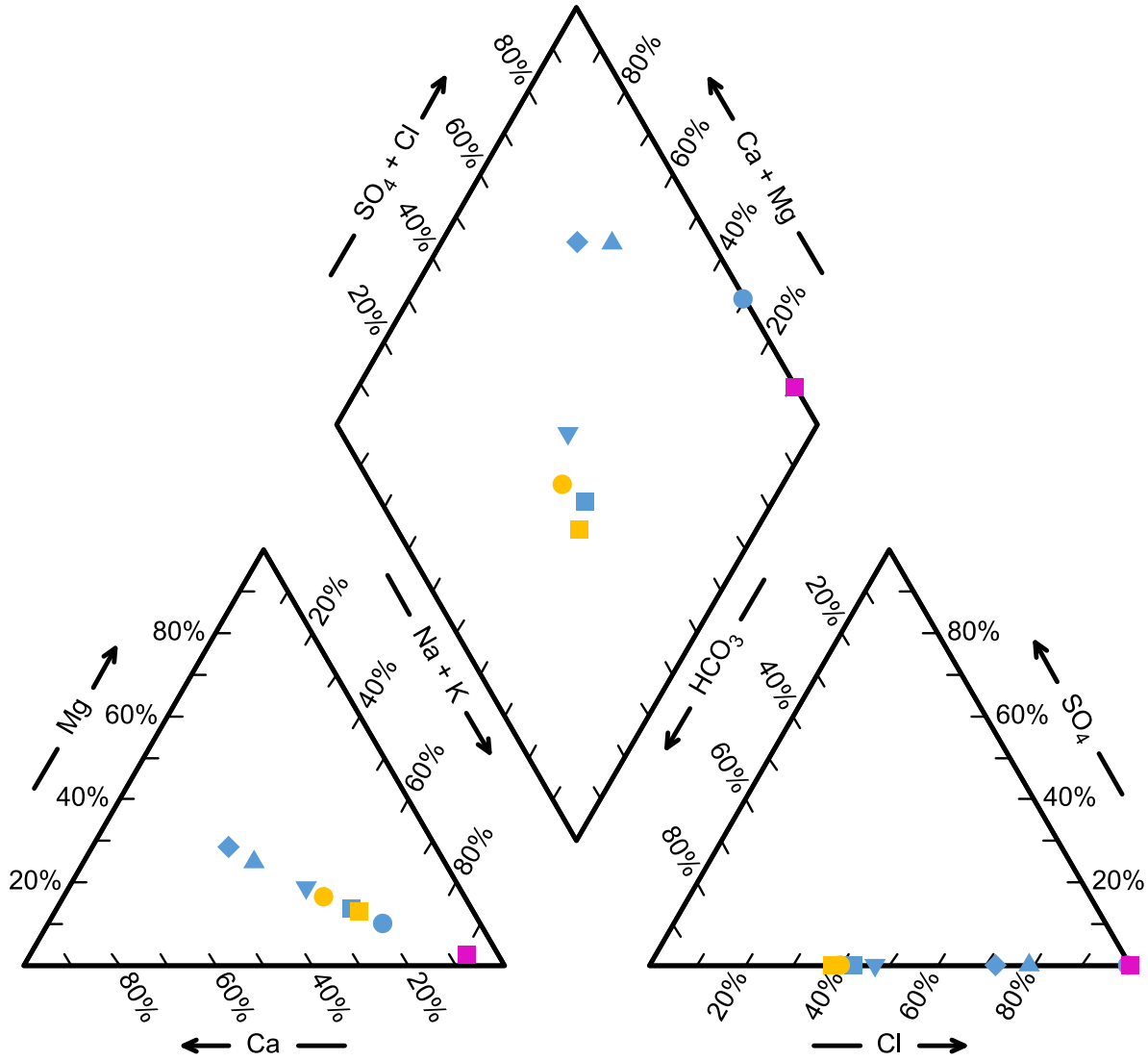
▲ JLS-22



- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- Chevron U.S.A., Inc. Well SN 70817

Notes:
 Units are mg/kg-wet.
Blue values exceed the limiting RECAP screening standard.
 NA - Not analyzed
 7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Figure 48
PAH Concentrations in Soil and Sediment
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



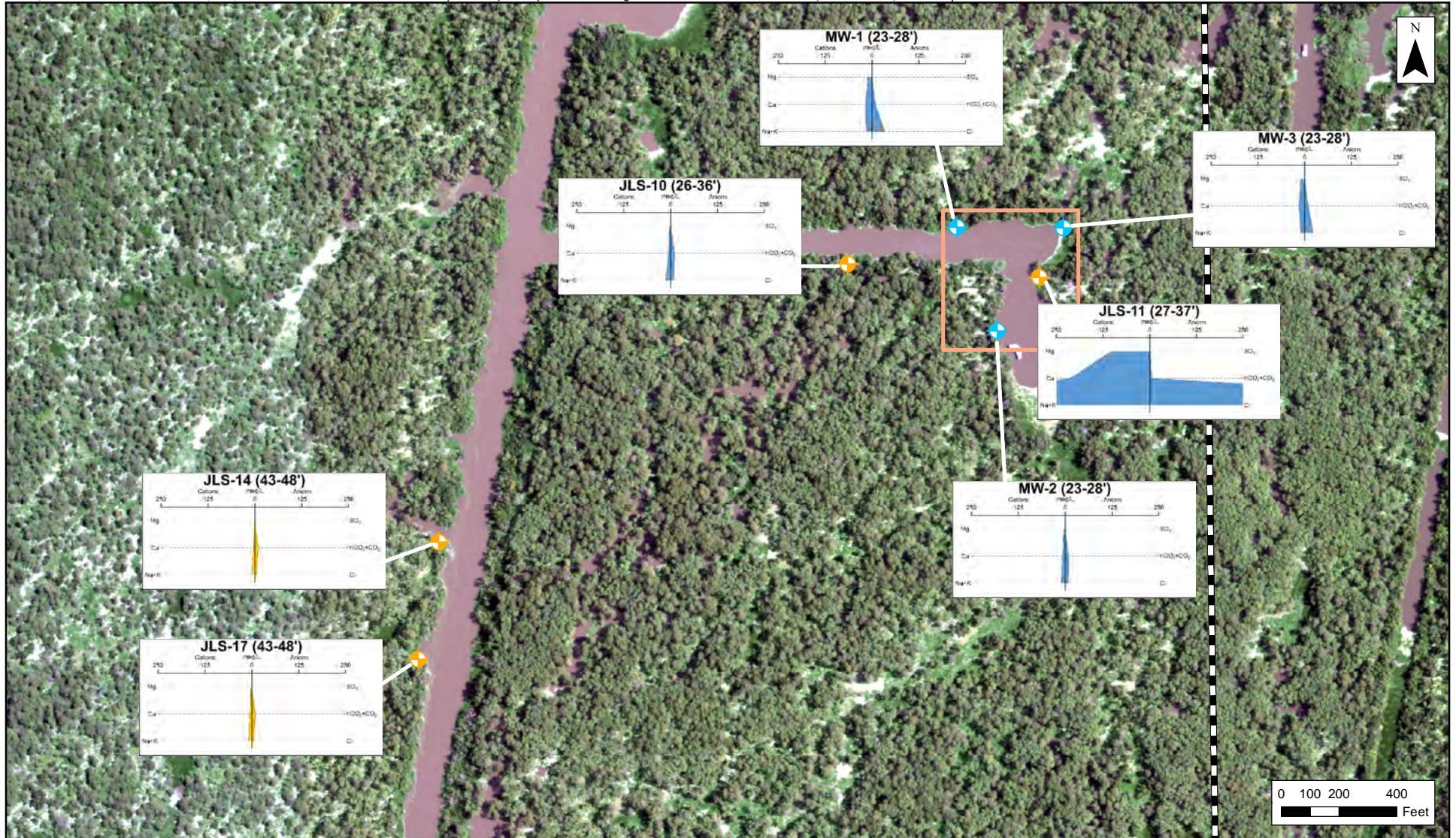
- JLS-10 (26-36')
- JLS-11 (27-37')
- ▲ MW-1 (23-28')
- ▼ MW-2 (23-28')
- ◆ MW-3 (23-28')
- JLS-14 (43-48')
- JLS-17 (43-48')
- SN972653 Produced Water

Notes:
 30-foot zone wells shown with blue symbol.
 50-foot zone wells shown with orange symbol.
 6/14/1995 produced water from SN972653 shown with pink symbol.

Figure 49
Piper Diagram

Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana





- Property
- Chevron Evaluation Area
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample with Monitoring Well

Notes:
 30-foot zone well stiff diagrams shown in blue,
 50-foot zone well stiff diagrams shown in orange.
 6/14/1995 produced water from SN972653 stiff diagram shown in pink.
 Imagery Basemap via ArcGIS Online.

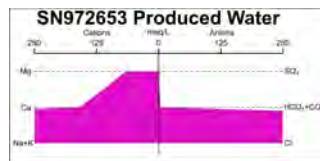


Figure 50
Stiff Diagrams

Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



MW-1 (23-28')
2/9/2021
ERM / ICON
As (Total): 0.11 / 0.0937
As (Diss): 0.091 / NA

MW-3 (23-28')
2/9/2021
ERM / ICON
As (Total): 0.095 / NA
As (Diss): 0.079 / 0.0834

JLS-10 (26-36')
7/30/2020
ERM / ICON
As (Total): 0.079 / NA
As (Diss): 0.075 / 0.0212

JLS-11 (27-32')
7/30/2020
ERM / ICON
As (Total): 0.095 / 0.108
As (Diss): 0.1 / NA

MW-2 (23-28')
2/9/2021
ERM / ICON
As (Total): 0.10 / NA
As (Diss): 0.087 / 0.0902

JLS-14 (43-48')
8/5/2020
HET / ICON
As (Total): 0.34 / NA
As (Diss): 0.36 / 0.35

JLS-17 (43-48')
8/5/2020
HET / ICON
As (Total): 0.44 / NA
As (Diss): 0.39 / 0.449

- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- HET Canal Sediment Sample
- HET Soil Sample
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well

Chevron U.S.A., Inc. Well SN 70817

Sample ID
Sample Date
Company 1 / Company 2
As (Total): Result 1 / Result 2
As (Diss): Result 1 / Result 2

Notes:
Units are mg/L.
Blue labels - ERM Samples, Orange labels - ICON Samples, Green labels - HET Samples
7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Figure 51
Arsenic in Groundwater
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana

DRAWN BY: MMG
P:\Projects\0519829 Kean Miller LLP (CVX) Jeanerette Lumber v COP SWGIS\Maps\17 Limited Admission Plan\52 Barium in Groundwater.mxd. REVISED: 04/22/2021. SCALE: 1:2,800 when printed at 11x17



MW-1 (23-28')
2/9/2021
ERM / ICON
Ba (Total): 1.68 / 1.45
Ba (Diss): 1.52 / NA

MW-2 (23-28')
2/9/2021
ERM / ICON
Ba (Total): 0.71 / NA
Ba (Diss): 0.56 / 0.584

MW-3 (23-28')
2/9/2021
ERM / ICON
Ba (Total): 1.38 / NA
Ba (Diss): 1.20 / 1.20

JLS-10 (26-36')
7/30/2020
ERM / ICON
Ba (Total): 0.46 / NA
Ba (Diss): 0.4 / 0.233

JLS-11 (27-32')
7/30/2020
ERM / ICON
Ba (Total): 70.8 / 77.2
Ba (Diss): 66.1 / NA

JLS-14 (43-48')
8/5/2020
HET / ICON
Ba (Total): 0.39 / NA
Ba (Diss): 0.37 / 0.395

JLS-17 (43-48')
8/5/2020
HET / ICON
Ba (Total): 0.58 / NA
Ba (Diss): 0.45 / 0.495

- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- HET Canal Sediment Sample
- HET Soil Sample

Chevron U.S.A., Inc. Well SN 70817

Sample ID
Sample Date
Company 1 / Company 2
Ba (Total): Result 1 / Result 2
Ba (Diss): Result 1 / Result 2

Notes:
Units are mg/L.
Blue labels - ERM Samples, Orange labels - ICON Samples, Green labels - HET Samples
7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Figure 52
Barium in Groundwater
Jeanerette Lumber & Shingle Co., LLC
v. ConocoPhillips Company, et al.
Bayou Pigeon Oil & Gas Field
Iberia Parish, Louisiana



- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- HET Canal Sediment Sample
- HET Soil Sample

Chevron U.S.A., Inc. Well SN 70817

Sample ID
 Sample Date
 Company 1 / Company 2
 Cl: Result 1 / Result 2

Notes:
 Units are mg/L.
 Blue labels - ERM Samples, Orange labels - ICON Samples, Green labels - HET Samples
 7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

Figure 53
Chloride in Groundwater
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

DRAWN BY: MMG
 P:\Projects\0519829\Kean Miller LLP (CVX) Jeanerette Lumber v COP SWGIS\Maps\17 Limited Admission Plan\54 Radium in Groundwater.mxd REVISED: 04/22/2021 SCALE: 1:2,800 when printed at 11x17



MW-1 (23-28')
 2/9/2021
 ERM / ICON
 Ra 226: 0.681 / 0.673
 Ra 228: 1.09 / 1.28
 Ra 226+228: 1.771 / 1.953

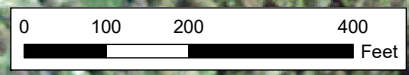
MW-3 (23-28')
 2/9/2021
 ERM / ICON
 Ra 226: 1.37 / 0.939
 Ra 228: 1.72 / 1.04
 Ra 226+228: 3.09 / 1.979

JLS-11 (27-32')
 7/30/2020
 ERM / ICON
 Ra 226: 4.31 / 55.2
 Ra 228: 32.7 / 49
 Ra 226+228: 37.01 / 104.2

MW-2 (23-28')
 2/9/2021
 ERM / ICON
 Ra 226: 0.534 / 0.279
 Ra 228: 0.941 / 0.821
 Ra 226+228: 1.475 / 1.100

JLS-14 (43-48')
 8/5/2020
 HET / ICON
 Ra 226: 0.173 / 0.452
 Ra 228: 1.07 / 1.07
 Ra 226+228: 1.243 / 1.522

JLS-17 (43-48')
 8/5/2020
 HET / ICON
 Ra 226: NA / 0.431
 Ra 228: NA / 0.694
 Ra 226+228: NA / 1.125



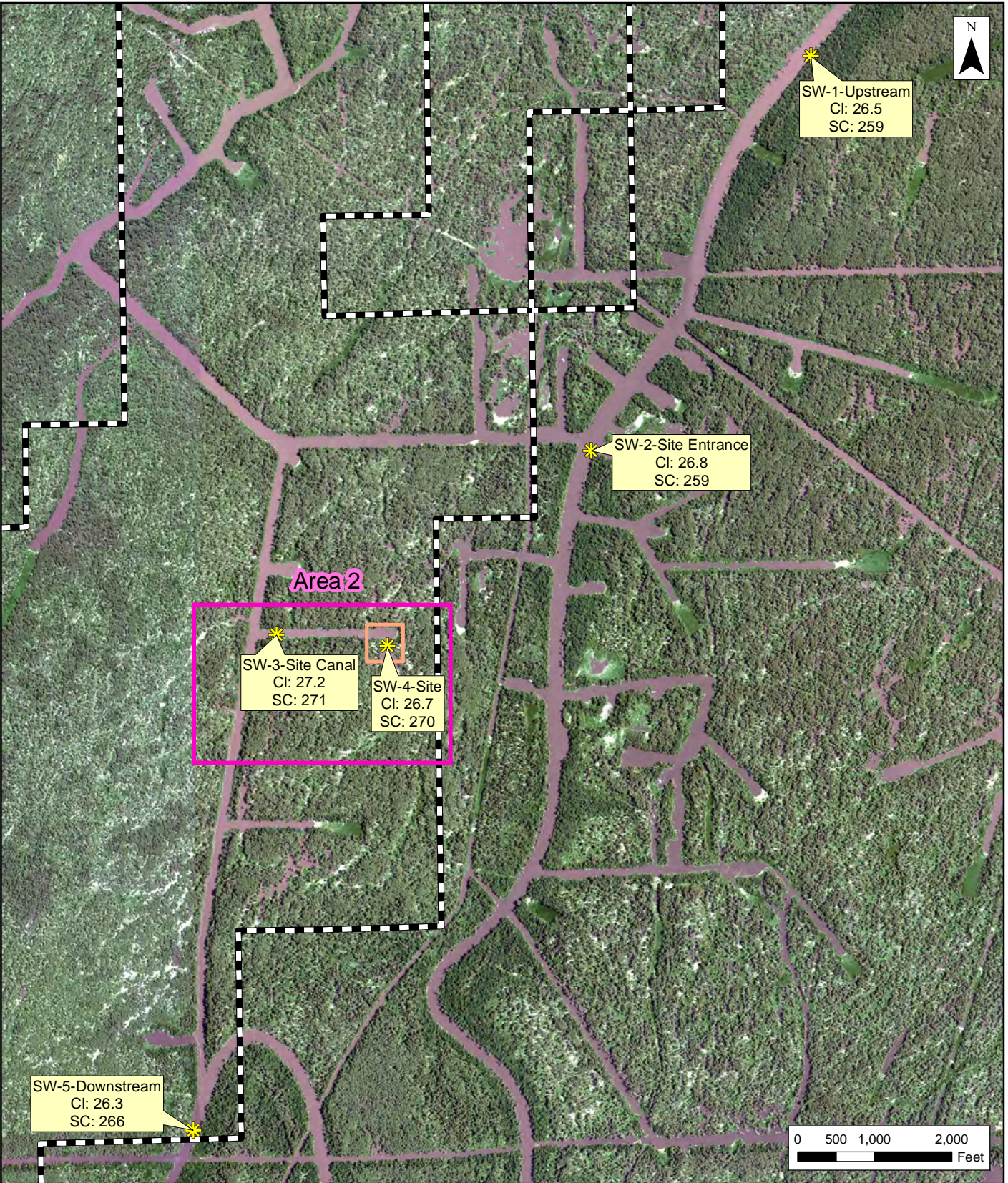
- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- HET Canal Sediment Sample
- HET Soil Sample

Chevron U.S.A., Inc. Well SN 70817

Sample ID
 Sample Date
 Company 1 / Company 2
 Ra 226: Result 1 / Result 2
 Ra 228: Result 1 / Result 2
 Ra 226+228: Result 1 / Result 2

Notes:
 Units are pCi/L.
 Blue labels - ERM Samples, Orange labels - ICON Samples, Green labels - HET Samples
 7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).

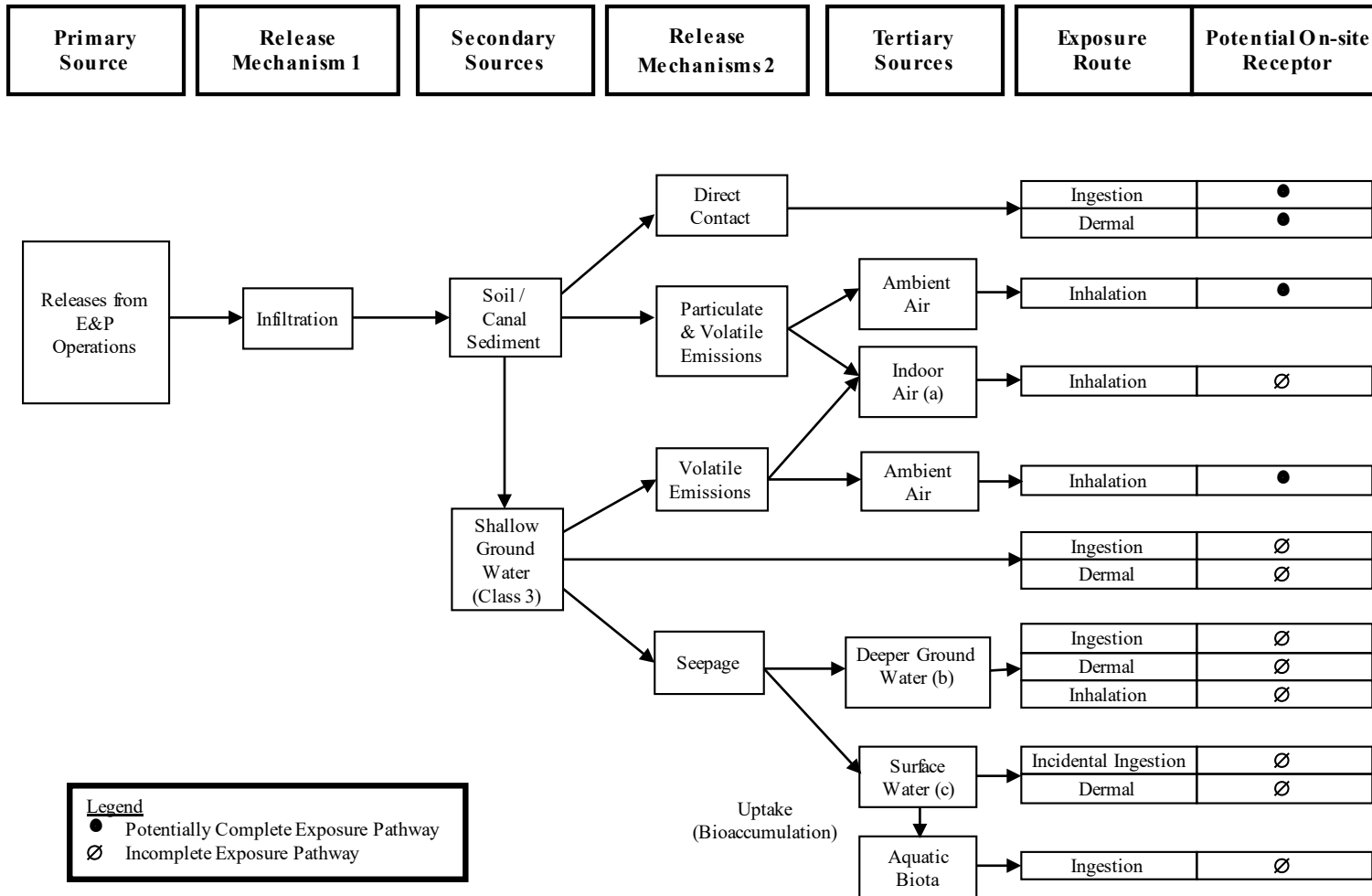
Figure 54
Radium in Groundwater
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



- Property
- Chevron Evaluation Area
- ERM Surface Water Sample

Notes:
 SC - Specific Conductance
 SC units are umhos/cm
 Chloride units are mg/L
 7/6/2019 Aerial via USGS Earth Explorer (<https://earthexplorer.usgs.gov/>).
 Source: Esri - ArcGIS Online; NAD 1983 UTM Zone 15N

Figure 55
Chloride and Specific Conductance in Surface Water
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



Notes:

- (a) There are no slab on grade (enclosed) structures within Areas of Investigation.
- (b) Two discontinuous shallow water bearing zones were identified at the site: the 30-foot zone and 50-foot zone. Both zones were identified as Class 3A in accordance with RECAP, and have no identified uses.
- (c) Based on the site-specific hydrogeology and shallow surface water depths, the groundwater to surface water discharge pathway is incomplete and no risk of adverse effects to surface water (or surface water users) is identified. For demonstration purposes, an example calculation of GW3 standards is included in this report.

P:\Projects\0519829\DM\29425H(figs).pdf

<p>FIGURE 56 CONCEPTUAL SITE MODEL Jeanerette Lumber Shingle Co., LLC v. ConocoPhillips Company, et al. Bayou Pigeon Oil Gas Field Iberia Parish, Louisiana</p>	
---	--



- Property
- Chevron Evaluation Area
- ERM Proposed Soil/Sediment Sample
- ERM Proposed Groundwater Monitoring Well
- ERM Proposed Groundwater Monitoring Network Well
- ERM Canal Sediment Sample
- ICON Canal Sediment Sample

ICON Soil Sample with Monitoring Well

Notes:
Basemap is 11/19/20 drone imagery.

Figure 57
Delineation Sample Locations
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana



- Property
- Chevron Evaluation Area
- ICON Canal Sediment Sample
- ICON Soil Sample with Monitoring Well
- ERM Canal Sediment Sample
- ERM Canal Sediment Sample with Monitoring Well
- ERM Contingent Sediment Remediation Area

Notes:
 Basemap is 11/19/20 drone imagery.

Figure 58
Contingent Sediment Remediation Area
 Jeanerette Lumber & Shingle Co., LLC
 v. ConocoPhillips Company, et al.
 Bayou Pigeon Oil & Gas Field
 Iberia Parish, Louisiana

