

Exhibit Y. Foti – Highway 70 Wetlands Delineation Report





March 8, 2018

Via Electronic Mail

Mr. Jim Cavanaugh  
Baton Rouge Area Chamber  
[jim@brac.org](mailto:jim@brac.org)

## Foti - Highway 70 Wetlands Delineation Report

Re: Wetland Data Report  
Foti Highway 70 Project  
Ascension Parish, Louisiana  
Providence Project No. 1204-002

Dear Mr. Cavanaugh:

On behalf of Baton Rouge Area Chamber (BRAC), Providence Engineering and Environmental Group LLC (Providence) is submitting this wetland data report for the Foti Highway 70 project (hereinafter referred to as Site) in Ascension Parish, Louisiana.

### BACKGROUND

The purpose of this report is to present field data, habitat descriptions, and other pertinent information on the three diagnostic characteristics of wetlands. This report was prepared in accordance with the *Corps of Engineers Wetlands Delineation Manual* (U.S. Army Corps of Engineers, Waterways Experiment Station 1987) and subsequent guidance provided in the Regional Supplement to the *Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region* (U.S. Army Corps of Engineers, Wetland Regulatory Assistance Program 2010). Providence biologists visited the Site on September 1, 2017, and collected field data on the three diagnostic wetland parameters – soils, vegetation, and hydrology.

Prior to field reconnaissance, Providence reviewed the Natural Resources Conservation Service (NRCS) Web Soil Survey (2016), the *Soil Survey of Ascension Parish* (United States Department of Agriculture, Soil Conservation Service 1990), United States Geological Survey (USGS) 7.5-minute topographic maps, and recent aerial photography. Included for your review are: **Figure 1** – Vicinity Map, **Figure 2** – Site Location Map, **Figure 3** - Aerial Photograph, **Figure 4** – Soils Map, **Exhibit 1** – Copies of Site Photographs, and **Exhibit 2** - Routine Wetland Determination Data Forms – Atlantic and Gulf Coastal Plain Region.

### PROJECT LOCATION & DESCRIPTION

The 12.28-acre Site is centered at Latitude 30.092083°; Longitude -90.936266° in Sections 104 and 105, Township 11 South, Range 15 East of Ascension Parish. Access to the Site is via Louisiana Highway 70. The Site is characterized by upland pasture and potential palustrine emergent (PEM) wetlands. Based on historical aeriels, this area appears to have been a trailer park with an established road system.

Providence Engineering and Environmental Group LLC

[WWW.PROVIDENCEENG.COM](http://WWW.PROVIDENCEENG.COM)

1204-002-001NG Foti Hwy 70 WDR

## SOILS

The NRCS Web Soil Survey was used to determine mapped soil series. The revised official series descriptions were used to confirm profile matrix, redox features, and texture of soils underlying the Site. The Web Soil Survey shows that the Site may be underlain by two soil map units (NRCS Web Soil Survey 2016). **Table 1** shows the soil map unit's individual soil components, component percentage, and hydric status in Ascension Parish (NRCS Survey Area Data, Version 11, September 23, 2016).

**Table 1: NRCS Web Soil Survey Data**

Map Unit Name	Soil Series/ Component	Component Percentage	Hydric Status
Co: Commerce silty clay loam			
	Commerce	90	No
	Sharkey	10	Yes
Sc: Sharkey clay, 0 to 1 percent slopes, rarely flooded, south			
	Sharkey	80-95	Yes
	Tunica	1-6	No
	Dowling	2-10	Yes
	Commerce	2-4	No

Providence collected soil samples between the surface and approximately 16 inches. The depth of each sample was sufficient to determine changes in upper horizons and to observe field indicators of hydric soils. Based on field observations, the wetland criterion for hydric soils was met at five of the six sample locations established by Providence to characterize the Site.

## VEGETATION<sup>1</sup>

Indicator statuses for dominant vegetation on the Site consist of facultative upland (FACU), facultative (FAC), facultative wetland (FACW), and obligate (OBL) species. **Table 2** is a list of the dominant species observed at the Site.

**Table 2: Dominant Plant Species**

Common Name	Scientific Name	Cowardin Class
Bahia grass	<i>Paspalum notatum</i>	FACU
Big bluestem	<i>Andropogon gerardii</i>	FAC
Blunt spike-rush	<i>Eleocharis obtusa</i>	OBL
Johnson grass	<i>Sorghum halepense</i>	FACU
Lamp rush	<i>Juncus effusus</i>	OBL
Pinkweed	<i>Persicaria pensylvanica</i>	FACW

<sup>1</sup> Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014. *The National Wetland Plant List: 2014 Update of Wetland Ratings*. Phytoneuron 2014-41: 1-42

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The wetland criterion for a prevalence of hydrophytic vegetation was met at two of the six sample locations established by Providence to characterize the Site.

## HYDROLOGY

The Site is in the East Central Louisiana Coastal watershed; within the United States Geological Survey (USGS) Hydrologic Cataloguing Unit 08090301. Hydrology on the Site is influenced by rainfall, sheetflow, and backwater flooding from Bayou Verret. Primary and Secondary indicators of hydrology observed at the Site include: surface water, oxidized root channels, and positive FAC-neutral tests. The wetland criterion for hydrology was met at three of the six sample locations established by Providence biologists to characterize the Site.

## CONCLUSIONS

Evidence of poor drainage found in association with hydric soils and predominantly hydrophytic vegetation was considered sufficient to confirm the presence of potential jurisdictional PEM wetlands. It appears that approximately 0.63 acre of potential jurisdictional PEM wetlands and 712.14 linear feet (0.31 acre) of potential other waters of the U.S. may be present on the Site.

As requested in the solicitation for wetland services sent to Providence on August 17, 2017, below are the answers to the following questions:

1. **Do wetlands and/or other waterways exist on or near the site?**
  - a. Yes, wetland and other waters are present on the site and are included in the attached figures and shapefiles.
2. **If wetlands are present, has a section 404 Permit Application been submitted to USACE?**
  - a. No
3. **If wetlands are present, has a section 404 Permit Application been received from USACE?**
  - a. No
4. **If wetlands are present, have all wetlands on the site been mitigated?**
  - a. No

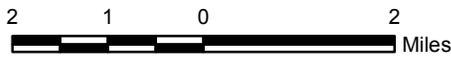
If you have any questions or require additional information, please contact me at (225) 766-7400 or [timkimmel@providenceeng.com](mailto:timkimmel@providenceeng.com).

Sincerely,



Tim Kimmel  
Environmental Scientist  
Providence Engineering and Environmental Group LLC  
1201 Main Street  
Baton Rouge, Louisiana 70802

**FIGURES**



**Legend**

 Limits of Delineation (12.28 Acres)

**Reference**

Base map comprised of ESRI StreetMap USA data.

**Vicinity Map**

**Wetland Data Report**  
Ascension Parish, Louisiana

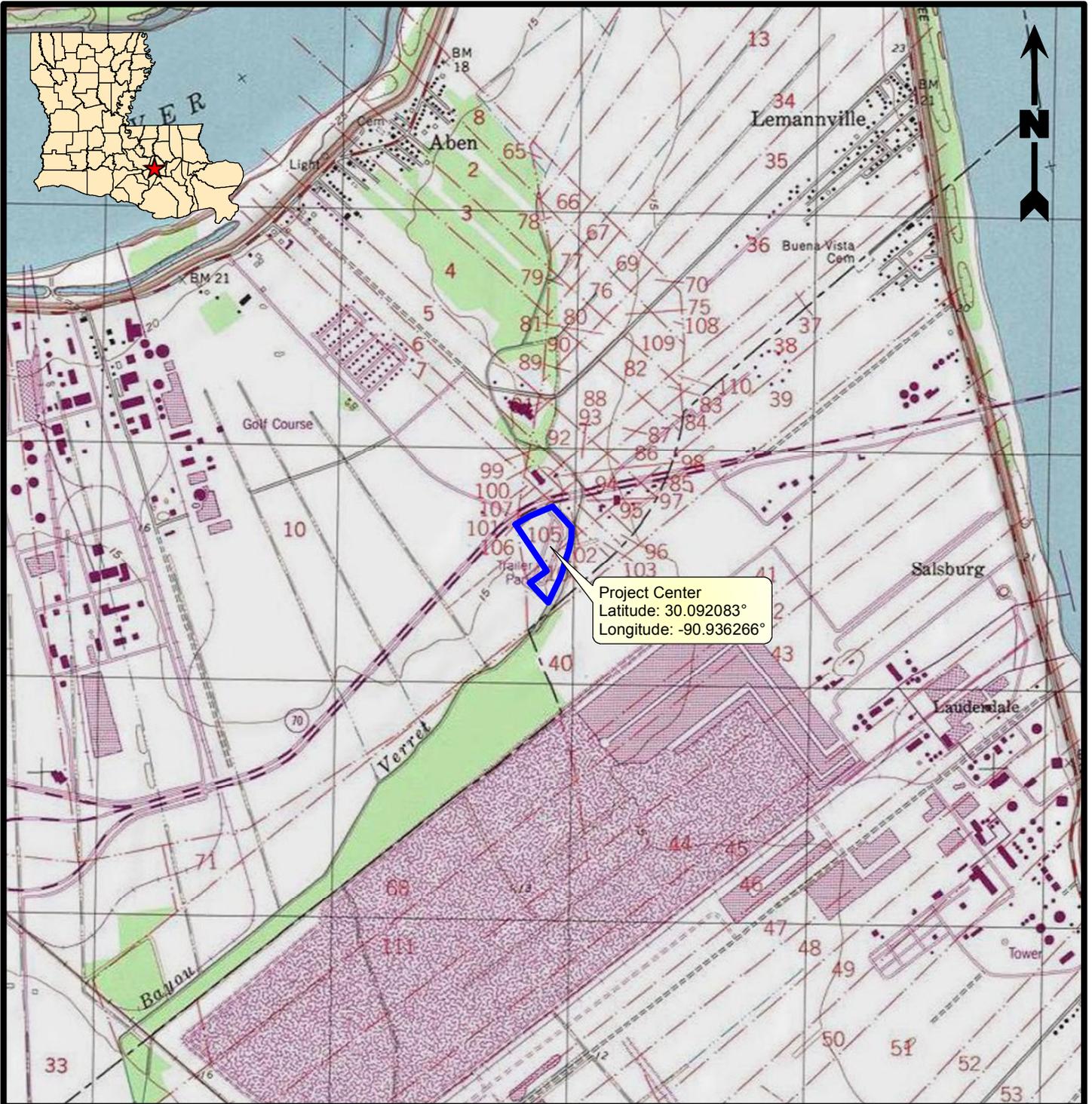
**Baton Rouge Area Chamber**  
Foti Highway 70 Project



**PROVIDENCE**

Drawn By	LMM	09/11/17
Checked By	LMH	09/11/17
Approved By	TCK	09/11/17

Project Number 1204-002	<b>1</b> Figure
Drawing Number 1204-002-A001	



**Legend**

 Limits of Delineation (12.28 Acres)

**Reference**

Base map comprised of United States Geological Survey (USGS) 7.5-minute topographic map, "Donaldsonville, LA".

**Site Location Map**

Wetland Data Report  
Ascension Parish, Louisiana

**Baton Rouge Area Chamber**  
Foti Highway 70 Project

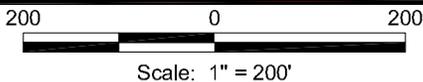
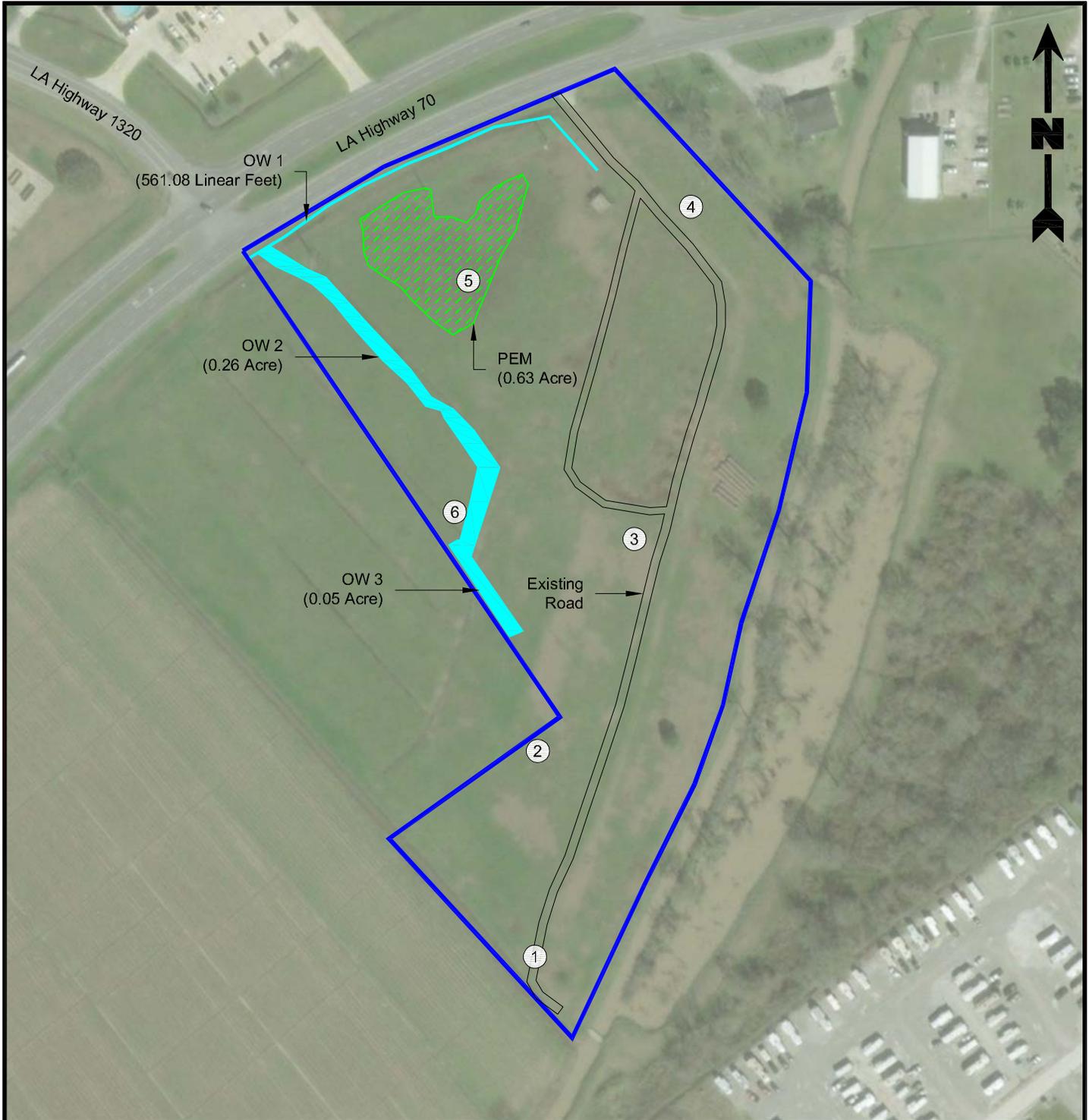


**PROVIDENCE**

Drawn By	LMM	09/11/17
Checked By	LMH	09/11/17
Approved By	TCK	09/11/17

Project Number	1204-002
Drawing Number	1204-002-A002

**2**  
Figure



**Legend**

-  Limits of Delineation (12.28 Acres)
-  Potential Jurisdictional Wetlands (0.63 Acre)
-  Potential Other Waters of The U.S. (712.14 Linear Feet; 0.31 Acre)
-  Sample Location

**Reference**

Base map comprised of Bing Maps aerial imagery from (c) 2017 Microsoft Corporation and its data suppliers, exported 09/11/17.

**Aerial Photograph**

**Wetland Data Report**  
Ascension Parish, Louisiana

**Baton Rouge Area Chamber**  
Foti Highway 70 Project



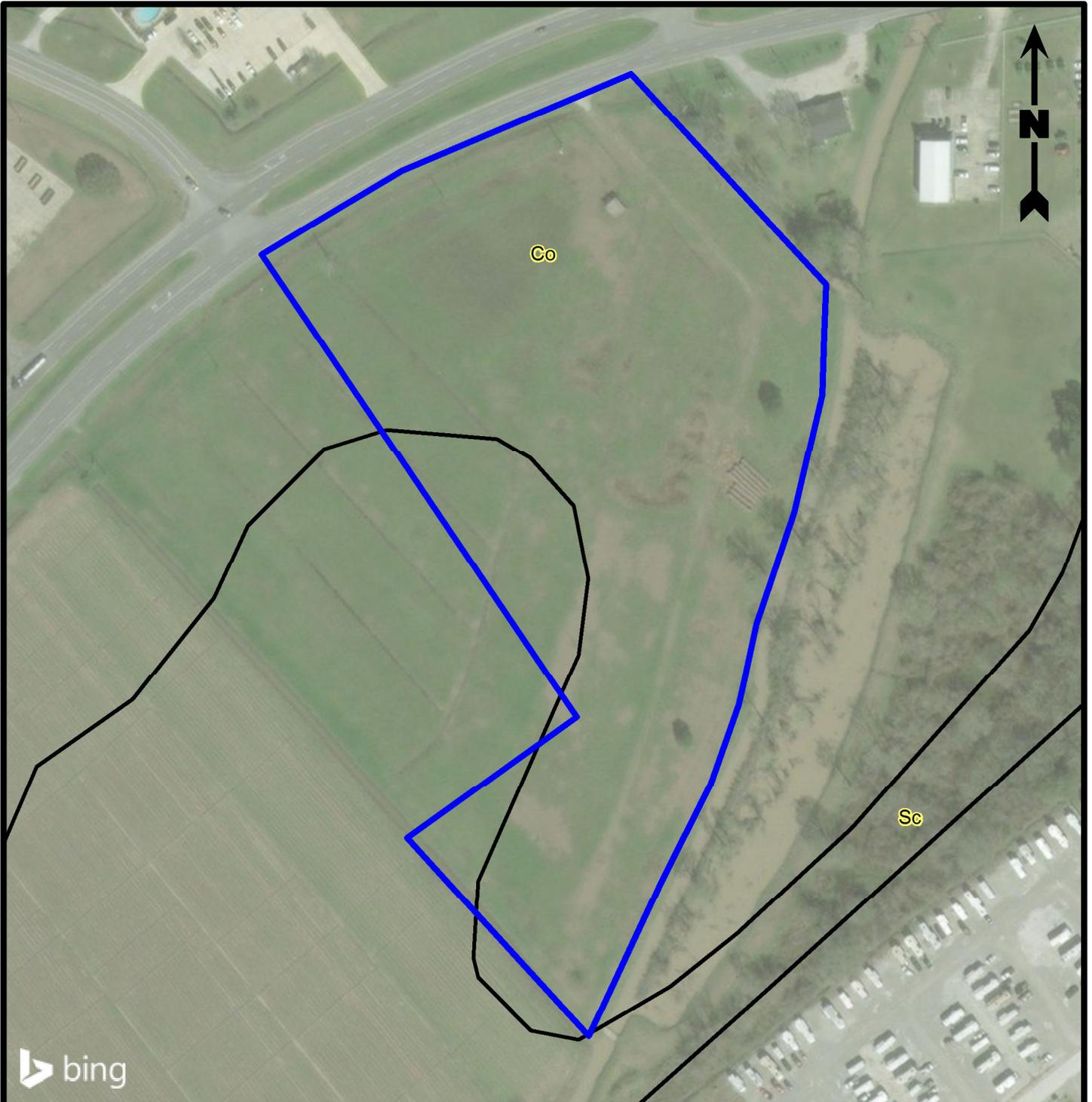
**PROVIDENCE**

Drawn By	LMM	10/12/17
Checked By	LMH	10/12/17
Approved By	TCK	10/12/17

Project Number  
1204-002

Drawing Number  
1204-002-A003

**3**  
Figure



**Legend**

- Limits of Delineation (12.28 Acres)
- Soils Data:
  - Co - Commerce silty clay loam
  - Sc - Sharkey clay, 0 to 1 percent slopes, rarely flooded, south

**Reference**

Base map comprised of Bing Maps aerial imagery from (c) 2017 Microsoft Corporation and its data suppliers. Soils data obtained from Natural Resources Conservation Service (NRCS) data-server.

**Soils Map**

**Wetland Data Report**  
Ascension Parish, Louisiana

**Baton Rouge Area Chamber**  
Foti Highway 70 Project



**PROVIDENCE**

Drawn By	LMM	09/11/17
Checked By	LMH	09/11/17
Approved By	TCK	09/11/17

Project Number 1204-002
Drawing Number 1204-002-A004

<b>4</b>
Figure

**EXHIBIT 1**  
**COPIES OF SITE PHOTOGRAPHS**

## Baton Rouge Area Chamber

<b>Site Name:</b>	Foti Highway 70
<b>Site Location:</b>	Ascension Parish, Louisiana
<b>Date:</b>	September 1, 2017

### Photograph #1A

**Direction:**

N/A

**Comments:**

View of soil profile at Sample Location 1.



### Photograph #1B

**Direction:**

Northeast

**Comments:**

View of habitat and typical landscape features at Sample Location 1.



## Baton Rouge Area Chamber

<b>Site Name:</b>	Foti Highway 70
<b>Site Location:</b>	Ascension Parish, Louisiana
<b>Date:</b>	September 1, 2017

### Photograph #2A

**Direction:**

N/A

**Comments:**

View of soil profile at Sample Location 2.



### Photograph #2B

**Direction:**

North

**Comments:**

View of habitat and typical landscape features at Sample Location 2.



<b>Site Name:</b>	Foti Highway 70
<b>Site Location:</b>	Ascension Parish, Louisiana
<b>Date:</b>	September 1, 2017

**Photograph #3A**

**Direction:**

N/A

**Comments:**

View of soil profile at Sample Location 3.



**Photograph #3B**

**Direction:**

North

**Comments:**

View of habitat and typical landscape features at Sample Location 3.



Baton Rouge Area Chamber

<b>Site Name:</b>	Foti Highway 70
<b>Site Location:</b>	Ascension Parish, Louisiana
<b>Date:</b>	September 1, 2017

**Photograph #4A**

**Direction:**

N/A

**Comments:**

View of soil profile at Sample Location 4.



**Photograph #4B**

**Direction:**

South

**Comments:**

View of habitat and typical landscape features at Sample Location 4.



Baton Rouge Area Chamber

<b>Site Name:</b>	Foti Highway 70
<b>Site Location:</b>	Ascension Parish, Louisiana
<b>Date:</b>	September 1, 2017

**Photograph #5A**

**Direction:**

N/A

**Comments:**

View of soil profile at Sample Location 5.

No soil sample collected due to inundation.

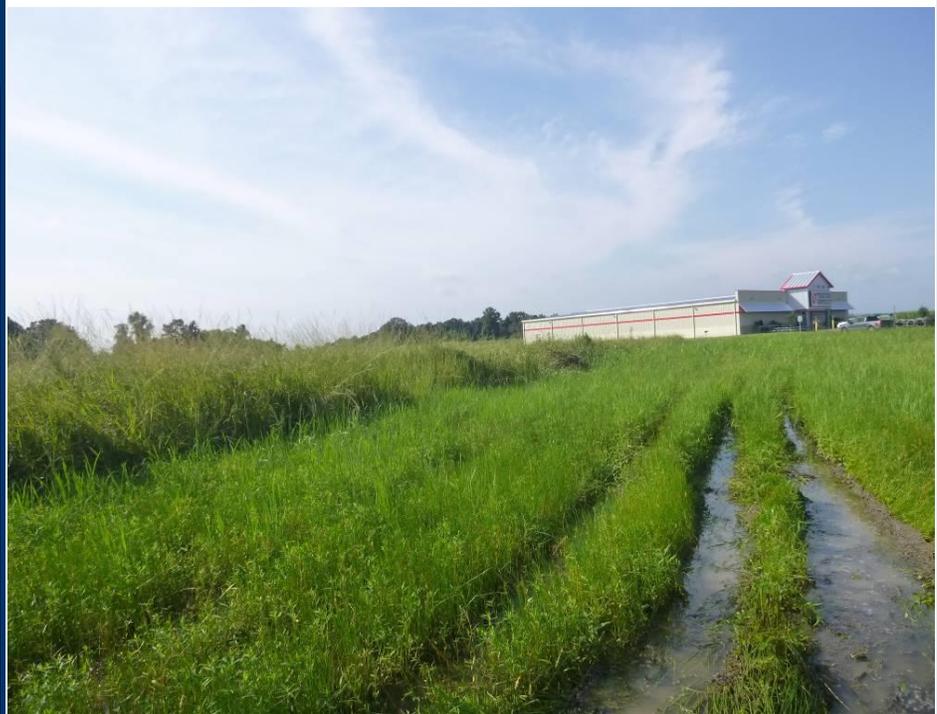
**Photograph #5B**

**Direction:**

South

**Comments:**

View of habitat and typical landscape features at Sample Location 5.



BATON ROUGE AREA CHAMBER

<b>Site Name:</b>	Foti Highway 70
<b>Site Location:</b>	Ascension Parish, Louisiana
<b>Date:</b>	September 1, 2017

**Photograph #6A**

**Direction:**

N/A

**Comments:**

View of soil profile at Sample Location 6.

No soil sample collected due to inundation.

**Photograph #6B**

**Direction:**

North

**Comments:**

View of habitat and typical landscape features at Sample Location 6.



**EXHIBIT 2**

**ROUTINE WETLAND DETERMINATION DATA FORMS –  
ATLANTIC AND GULF COASTAL PLAIN REGION**

## WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

Project/Site: Foti Highway 70		Parish: Ascension		Sampling Date: 9/1/2017	
Applicant/Owner: Baton Rouge Area Chamber		State: Louisiana		Sampling Point: 1	
Investigator(s): Tanner Jones, Tim Kimmel		Section, Township, Range:		Section 104, Township 11 South, Range 15 East	
Landform (hillslope, terrace, etc.): Flat		Local Relief (concave, convex, none): None		Slope: 0%	
Subregion (LRR or MLRA): LRR O		Lat: 30.090242°	Long: -90.936419°	Datum: NAD83	
Soil Map Unit Name: Commerce silty clay loam		NWI Classification: None			
Are climatic / hydrology conditions on the site typical for this time of year? Yes (If no explain in Remarks)					
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No		Are "Normal Circumstances" present? Yes			
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No		(If needed, explain any answers in Remarks.)			

<b>SUMMARY OF FINDINGS</b>	
Hydrophytic Vegetation Present? No	<b>Is the Sampled Area within a Wetland?</b>  <b>No</b>
Hydric Soil Present? Yes	
Wetland Hydrology Present? No	
Remarks:	

<b>HYDROLOGY</b>	
<b>Wetland Hydrology Indicators</b>	
Primary Indicators (Need 1):	Secondary Indicators (Need 2):
No Surface Water (A1) No Water Stained Leaves (B9)	No Surface Soil Cracked (B6)
No High Water Table (A2) No Aquatic Fauna (B13)	No Sparsely Veg. Concave Surface (B8)
No Saturation (A3) No Marl Deposits (B15) (LRR U)	No Drainage Patterns (B10)
No Water Marks (B1) No Hydrogen Sulfide Odor (C1)	No Moss Trim Lines (B16)
No Sediment Deposits (B2) No Oxidized Root Channels (C3)	No Dry-Season Water Table (C2)
No Drift Deposits (B3) No Presence of Reduced Iron (C4)	No Crayfish Burrows (C8)
No Algal Mat or Crust (B4) No Recent Reduct. in Tilled Soils (C6)	No Saturation on Aerial Imagery (C9)
No Iron Deposits (B5) No Thin Muck Surface (C7)	No Geomorphic Position (D2)
No Inundation on Aerial Imagery (B7) No Other (Explain in Remarks)	No Shallow Aquitard (D3)
	No FAC-Neutral Test (D5)
	No Sphagnum Moss (D8) (LRR T, U)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	
Surface Water Present? None	Depth (inches): N/A	<b>No</b>	
Water table Present? None	Depth (inches): N/A		
Saturation Present? None	Depth (inches): N/A		
Remarks:			

SOIL							
Depth Inches	Matrix		Redox Features			Location	Texture
	Color	%	Color	%	Type		
0-3	10YR 4/2	100					silty clay
3-16	10YR 5/2	95	2.5YR 4/6	5	C	M	silty clay

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains      Location: PL=Pore Lining, M=Matrix

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Soils:</b>	
No Histol (A1) No	No Polyvalue Below Surface (S8) (LRR S,T,U)	No 1cm Muck (A9) (LRR O)	
No Histic Epipedon (A2) No	No Thin Dark Surface (S9) (LRR S,T,U)	No 2cm Muck (A10) (LRR S)	
No Black Histic (A3) No	No Loamy Mucky Mineral (F1) (LRR O)	No Reduced Vertic (F18) (outside MLRA 150A,B)	
No Hydrogen Sulfide (A4) No	No Loamy Gleyed Matrix (F2)	No Piedmont Floodplain Soils (F19) (LRR P,S,T)	
No Stratified Layers (A5) Yes	No Depleted Matrix (F3)	No Anomalous Bright Loamy Soils (F20) (MLRA 153B)	
No Organic Bodies (A6) (LRR P,T,U) No	No Redox Dark Surface (F6)	No Red Parent Material (TF2)	
No 5cm Mucky Mineral (A7) (LRR P,T,U) No	No Depleted Dark Surface (F7)	No Very Shallow Dark Surface (TF12)	
No Muck Presence (A8) (LRR U) No	No Redox Depressions (F8)	No Other (Explain)	
No 1cm Muck (A9) (LRR P,T) No	No Marl (F10) (LRR U)		
No Depleted Below Dark Surface (A11) No	No Depleted Ochric (F11) (MLRA 151)		
No Thick Dark Surface (A12) No	No Iron-Manganese Masses (F12) (LRR O,P,T)		
No Coast Prairie Redox (A16) (MLRA 150A) No	No Umbric Surface (F13) (LRR P, T, U)		
No Sandy Mucky Mineral (S1) (LRR O,S) No	No Delta Ochric (F17) (MLRA 151)		
No Sandy Gleyed Matrix (S4) No	No Reduced Vertic (F18) (MLRA 150A, 150B)		
No Sandy Redox (S5) No	No Piedmont Floodplain Soils (F19) (MLRA 149A)		
No Stripped Matrix S6) No	No Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D)		
No Dark Surface (S7) (LRR P, S, T, U)			

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	
Type: None		<b>Yes</b>	
Depth inches: None			
Remarks:			



## WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

Project/Site:	Foti Highway 70		Parish:	Ascension	Sampling Date:	9/1/2017	
Applicant/Owner:	Baton Rouge Area Chamber		State:	Louisiana	Sampling Point:	2	
Investigator(s):	Tanner Jones, Tim Kimmel		Section, Township, Range:	Section 104, Township 11 South, Range 15 East			
Landform (hillslope, terrace, etc.):	Flat	Local Relief (concave, convex, none):	None		Slope:	0-1%	
Subregion (LRR or MLRA):	LRR O	Lat: 30.091111°	Long: -90.936498°	Datum: NAD83			
Soil Map Unit Name:	Sharkey clay, 0 to 1 percent slopes, rarely flooded, south			NWI Classification: None			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks)							
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes							
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)							

<b>SUMMARY OF FINDINGS</b>	
Hydrophytic Vegetation Present?	No
Hydric Soil Present?	Yes
Wetland Hydrology Present?	Yes
<b>Is the Sampled Area within a Wetland?</b>	
<b>No</b>	
Remarks:	

<b>HYDROLOGY</b>	
<b>Wetland Hydrology Indicators</b>	<b>Secondary Indicators (Need 2):</b>
Primary Indicators (Need 1):	No Surface Soil Cracked (B6)
No Surface Water (A1)	No Sparsely Veg. Concave Surface (B8)
No High Water Table (A2)	No Drainage Patterns (B10)
No Saturation (A3)	No Moss Trim Lines (B16)
No Water Marks (B1)	No Dry-Season Water Table (C2)
No Sediment Deposits (B2)	No Crayfish Burrows (C8)
No Drift Deposits (B3)	No Saturation on Aerial Imagery (C9)
No Algal Mat or Crust (B4)	No Geomorphic Position (D2)
No Iron Deposits (B5)	No Shallow Aquitard (D3)
No Inundation on Aerial Imagery (B7)	No FAC-Neutral Test (D5)
	No Sphagnum Moss (D8) (LRR T, U)
	No Other (Explain in Remarks)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	
Surface Water Present?	None	Depth (inches):	N/A
Water table Present?	Yes	Depth (inches):	N/A
Saturation Present?	Yes	Depth (inches):	N/A
Remarks:			

SOIL							
Depth Inches	Matrix		Redox Features			Location	Texture
	Color	%	Color	%	Type		
0-10	10YR 4/2	100					clay
10-16	10YR 4/2	70	2.5YR 2.5/4	25	C	M	clay
			2.5YR 2.5/4	5	C	PL	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains      Location: PL=Pore Lining, M=Matrix

<b>Hydric Soil Indicators:</b>	<b>Indicators for Problematic Soils:</b>
No Histol (A1)	No Polyvalue Below Surface (S8) (LRR S,T,U)
No Histic Epipedon (A2)	No Thin Dark Surface (S9) (LRR S,T,U)
No Black Histic (A3)	No Loamy Mucky Mineral (F1) (LRR O)
No Hydrogen Sulfide (A4)	No Loamy Gleyed Matrix (F2)
No Stratified Layers (A5)	Yes Depleted Matrix (F3)
No Organic Bodies (A6) (LRR P,T,U)	No Redox Dark Surface (F6)
No 5cm Mucky Mineral (A7) (LRR P,T,U)	No Depleted Dark Surface (F7)
No Muck Presence (A8) (LRR U)	No Redox Depressions (F8)
No 1cm Muck (A9) (LRR P,T)	No Marl (F10) (LRR U)
No Depleted Below Dark Surface (A11)	No Depleted Ochric (F11) (MLRA 151)
No Thick Dark Surface (A12)	No Iron-Manganese Masses (F12) (LRR O,P,T)
No Coast Prairie Redox (A16) (MLRA 150A)	No Umbric Surface (F13) (LRR P, T, U)
No Sandy Mucky Mineral (S1) (LRR O,S)	No Delta Ochric (F17) (MLRA 151)
No Sandy Gleyed Matrix (S4)	No Reduced Vertic (F18) (MLRA 150A, 150B)
No Sandy Redox (S5)	No Piedmont Floodplain Soils (F19) (MLRA 149A)
No Stripped Matrix S6)	No Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D)
No Dark Surface (S7) (LRR P, S, T, U)	

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	
Type:	None	<b>Yes</b>	
Depth inches:	None		

Remarks:
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VEGETATION

SAMPLING POINT

Tree Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC (A): <u>1</u>  Total Number of Dominant Species Across All Strata <u>2</u>  Percent of Dominant Species That Are OBL, FACW, or FAC (A/B): <u>50.00%</u>
None					
<u>0</u> = Total Cover      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Prevalence Index Worksheet:</b> Total % Cover of: <u>Multiply</u>  0 OBL x1= <u>0</u> 0 FACW x2= <u>0</u> 60 FAC x3= <u>180</u> 95 FACU x4= <u>380</u> 0 UPL x5= <u>0</u> 155 <b>A Totals B</b> <u>560</u>  Prevalence Index (B/A)= <u>3.61</u>
Sapling Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
None					
<u>0</u> = Total Cover      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Hydrophytic Vegetation Indicators:</b> Rapid Test for Hydrophytic Veg: <u>No</u> Dominance Test > 50%: <u>No</u> Prevalence Index is ≤3.0: <u>No</u> Problematic Hydrophytic Veg: <u>No</u>
Shrub Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
None					<b>Definitions of Vegetation Strata:</b>  Tree - Woody plants, excluding woody vines, approximately 20' or more in height and 3" or larger in DBH.  Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH.  Shrub - Woody plants, excluding woody vines, approximately 3-20' in height.  Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height.  Woody vine - All woody vines, regardless of height.
<u>0</u> = Total Cover      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					
Herb Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	Remarks:
<i>Andropogon gerardii</i>		60	Yes	FAC	
<i>Sorghum halepense</i>		40	Yes	FACU	
<i>Solidago altissima</i>		20	No	FACU	
<i>Paspalum notatum</i>		20	No	FACU	
<i>Ipomoea cordatotriloda</i>		15	No	FACU	
<u>155</u> = Total Cover      50/20 Threshold 50% of Total Cover = 77.5 20% of Total Cover = 31					
Woody Vine Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> <u>No</u>
None					
<u>0</u> = Total Cover      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					

## WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

Project/Site:	Foti Highway 70		Parish:	Ascension	Sampling Date:	9/1/2017	
Applicant/Owner:	Baton Rouge Area Chamber		State:	Louisiana	Sampling Point:	3	
Investigator(s):	Tanner Jones, Tim Kimmel		Section, Township, Range:	Section 105, Township 11 South, Range 15 East			
Landform (hillslope, terrace, etc.):	Flat		Local Relief (concave, convex, none):	None		Slope: 0%	
Subregion (LRR or MLRA):	LRR O	Lat: 30.091809°	Long: -90.935991°	Datum: NAD83			
Soil Map Unit Name:	Commerce silty clay loam		NW1 Classification: None				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks)							
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes							
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)							

<b>SUMMARY OF FINDINGS</b>	
Hydrophytic Vegetation Present?	No
Hydric Soil Present?	Yes
Wetland Hydrology Present?	No
<b>Is the Sampled Area within a Wetland?</b>	
<b>No</b>	
Remarks:	

<b>HYDROLOGY</b>	
<b>Wetland Hydrology Indicators</b>	Secondary Indicators (Need 2):
Primary Indicators (Need 1):	No Surface Soil Cracked (B6)
No Surface Water (A1)	No Sparsely Veg. Concave Surface (B8)
No High Water Table (A2)	No Drainage Patterns (B10)
No Saturation (A3)	No Moss Trim Lines (B16)
No Water Marks (B1)	No Dry-Season Water Table (C2)
No Sediment Deposits (B2)	No Crayfish Burrows (C8)
No Drift Deposits (B3)	No Saturation on Aerial Imagery (C9)
No Algal Mat or Crust (B4)	No Geomorphic Position (D2)
No Iron Deposits (B5)	No Shallow Aquitard (D3)
No Inundation on Aerial Imagery (B7)	No FAC-Neutral Test (D5)
	No Sphagnum Moss (D8) (LRR T, U)
	No Other (Explain in Remarks)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	
Surface Water Present?	None	Depth (inches):	N/A
Water table Present?	None	Depth (inches):	N/A
Saturation Present?	None	Depth (inches):	N/A
Remarks:		<b>No</b>	

SOIL							
Depth Inches	Matrix		Redox Features			Location	Texture
	Color	%	Color	%	Type		
0-16	10YR 4/2	95	7.5YR 5/6	2	C	M	silty clay

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains      Location: PL=Pore Lining, M=Matrix

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Soils:</b>	
No Histol (A1)	No Polyvalue Below Surface (S8) (LRR S,T,U)	No 1cm Muck (A9) (LRR O)	
No Histic Epipedon (A2)	No Thin Dark Surface (S9) (LRR S,T,U)	No 2cm Muck (A10) (LRR S)	
No Black Histic (A3)	No Loamy Mucky Mineral (F1) (LRR O)	No Reduced Vertic (F18) (outside MLRA 150A,B)	
No Hydrogen Sulfide (A4)	No Loamy Gleyed Matrix (F2)	No Piedmont Floodplain Soils (F19) (LRR P,S,T)	
No Stratified Layers (A5)	Yes Depleted Matrix (F3)	No Anomalous Bright Loamy Soils (F20) (MLRA 153B)	
No Organic Bodies (A6) (LRR P,T,U)	No Redox Dark Surface (F6)	No Red Parent Material (TF2)	
No 5cm Mucky Mineral (A7) (LRR P,T,U)	No Depleted Dark Surface (F7)	No Very Shallow Dark Surface (TF12)	
No Muck Presence (A8) (LRR U)	No Redox Depressions (F8)	No Other (Explain)	
No 1cm Muck (A9) (LRR P,T)	No Marl (F10) (LRR U)		
No Depleted Below Dark Surface (A11)	No Depleted Ochric (F11) (MLRA 151)		
No Thick Dark Surface (A12)	No Iron-Manganese Masses (F12) (LRR O,P,T)		
No Coast Prairie Redox (A16) (MLRA 150A)	No Umbric Surface (F13) (LRR P, T, U)		
No Sandy Mucky Mineral (S1) (LRR O,S)	No Delta Ochric (F17) (MLRA 151)		
No Sandy Gleyed Matrix (S4)	No Reduced Vertic (F18) (MLRA 150A, 150B)		
No Sandy Redox (S5)	No Piedmont Floodplain Soils (F19) (MLRA 149A)		
No Stripped Matrix S6)	No Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D)		
No Dark Surface (S7) (LRR P, S, T, U)			

<b>Restrictive Layer (if observed):</b>		<b>Hydric Soil Present?</b>	
Type:	None	<b>Yes</b>	
Depth inches:	None		

Remarks:
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## WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

Project/Site:	Foti Highway 70		Parish:	Ascension	Sampling Date:	9/1/2017	
Applicant/Owner:	Baton Rouge Area Chamber		State:	Louisiana	Sampling Point:	4	
Investigator(s):	Tanner Jones, Tim Kimmel		Section, Township, Range:	Section 105, Township 11 South, Range 15 East			
Landform (hillslope, terrace, etc.):	Flat	Local Relief (concave, convex, none):	None		Slope:	0%	
Subregion (LRR or MLRA):	LRR O	Lat: 30.093086°	Long: -90.935731°	Datum: NAD83			
Soil Map Unit Name:	Commerce silty clay loam		NWI Classification: None				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks)							
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes							
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)							

<b>SUMMARY OF FINDINGS</b>	
Hydrophytic Vegetation Present?	No
Hydric Soil Present?	No
Wetland Hydrology Present?	No
Remarks:	

<b>HYDROLOGY</b>	
<b>Wetland Hydrology Indicators</b>	<b>Secondary Indicators (Need 2):</b>
Primary Indicators (Need 1):	No Surface Soil Cracked (B6)
No Surface Water (A1)	No Sparsely Veg. Concave Surface (B8)
No High Water Table (A2)	No Drainage Patterns (B10)
No Saturation (A3)	No Moss Trim Lines (B16)
No Water Marks (B1)	No Dry-Season Water Table (C2)
No Sediment Deposits (B2)	No Crayfish Burrows (C8)
No Drift Deposits (B3)	No Saturation on Aerial Imagery (C9)
No Algal Mat or Crust (B4)	No Geomorphic Position (D2)
No Iron Deposits (B5)	No Shallow Aquitard (D3)
No Inundation on Aerial Imagery (B7)	No FAC-Neutral Test (D5)
	No Sphagnum Moss (D8) (LRR T, U)

<b>Field Observations:</b>				<b>Wetland Hydrology Present?</b>
Surface Water Present?	Yes	Depth (inches):	N/A	<u>No</u>
Water table Present?	None	Depth (inches):	N/A	
Saturation Present?	None	Depth (inches):	N/A	
Remarks:				

SOIL							
Depth Inches	Matrix		Redox Features			Texture	
	Color	%	Color	%	Type	Location	
0-16	10YR 4/3	100					silty clay

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains      Location: PL=Pore Lining, M=Matrix

<b>Hydric Soil Indicators:</b>	<b>Indicators for Problematic Soils:</b>
No Histol (A1)	No Polyvalue Below Surface (S8) (LRR S,T,U)
No Histic Epipedon (A2)	No Thin Dark Surface (S9) (LRR S,T,U)
No Black Histic (A3)	No Loamy Mucky Mineral (F1) (LRR O)
No Hydrogen Sulfide (A4)	No Loamy Gleyed Matrix (F2)
No Stratified Layers (A5)	No Depleted Matrix (F3)
No Organic Bodies (A6) (LRR P,T,U)	No Redox Dark Surface (F6)
No 5cm Mucky Mineral (A7) (LRR P,T,U)	No Depleted Dark Surface (F7)
No Muck Presence (A8) (LRR U)	No Redox Depressions (F8)
No 1cm Muck (A9) (LRR P,T)	No Mari (F10) (LRR U)
No Depleted Below Dark Surface (A11)	No Depleted Ochric (F11) (MLRA 151)
No Thick Dark Surface (A12)	No Iron-Manganese Masses (F12) (LRR O,P,T)
No Coast Prairie Redox (A16) (MLRA 150A)	No Umbric Surface (F13) (LRR P, T, U)
No Sandy Mucky Mineral (S1) (LRR O,S)	No Delta Ochric (F17) (MLRA 151)
No Sandy Gleyed Matrix (S4)	No Reduced Vertic (F18) (MLRA 150A, 150B)
No Sandy Redox (S5)	No Piedmont Floodplain Soils (F19) (MLRA 149A)
No Stripped Matrix S6)	No Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D)
No Dark Surface (S7) (LRR P, S, T, U)	

<b>Restrictive Layer (if observed):</b>	<b>Hydric Soil Present?</b>
Type: <u>None</u>	<u>No</u>
Depth inches: <u>None</u>	

Remarks:
Fill in profile.

VEGETATION

SAMPLING POINT

Tree Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
None					<b>Dominance Test Worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC (A): <u>1</u> <hr/> Total Number of Dominant Species Across All Strata <u>2</u> <hr/> Percent of Dominant Species That Are OBL, FACW, or FAC (A/B): <u>50.00%</u>
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Prevalence Index Worksheet:</b> Total % Cover of: <u>        </u> <b>Multiply</b> <hr/> OBL                      x1= <u>        </u> FACW                    x2= <u>        </u> FAC                      x3= <u>        </u> FACU                    x4= <u>        </u> UPL                      x5= <u>        </u> <hr/> <b>A Totals    B</b> <u>        </u>
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Hydrophytic Vegetation Indicators:</b> Rapid Test for Hydrophytic Veg: <u>        </u> No Dominance Test > 50%: <u>        </u> No Prevalence Index is ≤3.0: <u>        </u> N/A Problematic Hydrophytic Veg: <u>        </u> No
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Definitions of Vegetation Strata:</b> Tree - Woody plants, excluding woody vines, approximately 20' or more in height and 3" or larger in DBH.  Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH.  Shrub - Woody plants, excluding woody vines, approximately 3-20' in height.  Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height.  Woody vine - All woody vines, regardless of height.
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					Remarks:
<b>Herb Stratum</b>	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
<i>Andropogon gerardii</i>		60	Yes	FAC	
<i>Sorghum halepense</i>		40	Yes	FACU	
<i>Solidago altissima</i>		20	No	FACU	
<i>Paspalum notatum</i>		20	No	FACU	
<i>Ipomoea cordatotriloda</i>		15	No	FACU	
<u>155</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 77.5 20% of Total Cover = 31					
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Hydrophytic Vegetation Present?</b> <u>        </u> No

## WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

Project/Site:	Foti Highway 70	Parish: Ascension	Sampling Date:	9/1/2017
Applicant/Owner:	Baton Rouge Area Chamber	State: Louisiana	Sampling Point:	5
Investigator(s):	Tanner Jones, Tim Kimmel	Section, Township, Range:	Section 105, Township 11 South, Range 15 East	
Landform (hillslope, terrace, etc.):	Flat	Local Relief (concave, convex, none):	None	Slope: 0%
Subregion (LRR or MLRA):	LRR O	Lat: 30.092805°	Long: -90.936717°	Datum: NAD83
Soil Map Unit Name:	Commerce silty clay loam	NWI Classification:	None	
Are climatic / hydrologic conditions on the site typical for this time of year? <input type="checkbox"/> Yes (If no explain in Remarks)				
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed?		<input type="checkbox"/> No	Are "Normal Circumstances" present? <input type="checkbox"/> Yes	
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic?		<input type="checkbox"/> No	(If needed, explain any answers in Remarks.)	

<b>SUMMARY OF FINDINGS</b>	
Hydrophytic Vegetation Present?	Yes
Hydric Soil Present?	Yes
Wetland Hydrology Present?	Yes
Remarks:	

<b>HYDROLOGY</b>	
<b>Wetland Hydrology Indicators</b>	<b>Secondary Indicators (Need 2):</b>
Primary Indicators (Need 1):	
<input type="checkbox"/> Yes Surface Water (A1)	<input type="checkbox"/> No Surface Soil Cracked (B6)
<input type="checkbox"/> No High Water Table (A2)	<input type="checkbox"/> No Sparsely Veg. Concave Surface (B8)
<input type="checkbox"/> No Saturation (A3)	<input type="checkbox"/> No Drainage Patterns (B10)
<input type="checkbox"/> No Water Marks (B1)	<input type="checkbox"/> No Moss Trim Lines (B16)
<input type="checkbox"/> No Sediment Deposits (B2)	<input type="checkbox"/> No Dry-Season Water Table (C2)
<input type="checkbox"/> No Drift Deposits (B3)	<input type="checkbox"/> No Crayfish Burrows (C8)
<input type="checkbox"/> No Algal Mat or Crust (B4)	<input type="checkbox"/> No Saturation on Aerial Imagery (C9)
<input type="checkbox"/> No Iron Deposits (B5)	<input type="checkbox"/> No Geomorphic Position (D2)
<input type="checkbox"/> No Inundation on Aerial Imagery (B7)	<input type="checkbox"/> No Shallow Aquitard (D3)
	<input type="checkbox"/> Yes FAC-Neutral Test (D5)
	<input type="checkbox"/> No Sphagnum Moss (D8) (LRR T, U)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>
Surface Water Present?	None	<u>Yes</u>
Water table Present?	None	
Saturation Present?	None	
Depth (inches):	2	
Depth (inches):	N/A	
Depth (inches):	N/A	
Remarks:		

SOIL						
Depth Inches	Matrix		Redox Features			Texture
	Color	%	Color	%	Type	
N/A						

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains      Location: PL=Pore Lining, M=Matrix

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Soils:</b>
<input type="checkbox"/> No Histol (A1)	<input type="checkbox"/> No Polyvalue Below Surface (S8) (LRR S,T,U)	<input type="checkbox"/> No 1cm Muck (A9) (LRR O)
<input type="checkbox"/> No Histic Epipedon (A2)	<input type="checkbox"/> No Thin Dark Surface (S9) (LRR S,T,U)	<input type="checkbox"/> No 2cm Muck (A10) (LRR S)
<input type="checkbox"/> No Black Histic (A3)	<input type="checkbox"/> No Loamy Mucky Mineral (F1) (LRR O)	<input type="checkbox"/> No Reduced Vertic (F18) (outside MLRA 150A,B)
<input type="checkbox"/> No Hydrogen Sulfide (A4)	<input type="checkbox"/> No Loamy Gleyed Matrix (F2)	<input type="checkbox"/> No Piedmont Floodplain Soils (F19) (LRR P,S,T)
<input type="checkbox"/> No Stratified Layers (A5)	<input type="checkbox"/> No Depleted Matrix (F3)	<input type="checkbox"/> No Anomalous Bright Loamy Soils (F20) (MLRA 153B)
<input type="checkbox"/> No Organic Bodies (A6) (LRR P,T,U)	<input type="checkbox"/> No Redox Dark Surface (F6)	<input type="checkbox"/> No Red Parent Material (TF2)
<input type="checkbox"/> No 5cm Mucky Mineral (A7) (LRR P,T,U)	<input type="checkbox"/> No Depleted Dark Surface (F7)	<input type="checkbox"/> No Very Shallow Dark Surface (TF12)
<input type="checkbox"/> No Muck Presence (A8) (LRR U)	<input type="checkbox"/> No Redox Depressions (F8)	<input type="checkbox"/> No Other (Explain)
<input type="checkbox"/> No 1cm Muck (A9) (LRR P,T)	<input type="checkbox"/> No Mari (F10) (LRR U)	
<input type="checkbox"/> No Depleted Below Dark Surface (A11)	<input type="checkbox"/> No Depleted Ochric (F11) (MLRA 151)	
<input type="checkbox"/> No Thick Dark Surface (A12)	<input type="checkbox"/> No Iron-Manganese Masses (F12) (LRR O,P,T)	
<input type="checkbox"/> No Coast Prairie Redox (A16) (MLRA 150A)	<input type="checkbox"/> No Umbric Surface (F13) (LRR P, T, U)	
<input type="checkbox"/> No Sandy Mucky Mineral (S1) (LRR O,S)	<input type="checkbox"/> No Delta Ochric (F17) (MLRA 151)	
<input type="checkbox"/> No Sandy Gleyed Matrix (S4)	<input type="checkbox"/> No Reduced Vertic (F18) (MLRA 150A, 150B)	
<input type="checkbox"/> No Sandy Redox (S5)	<input type="checkbox"/> No Piedmont Floodplain Soils (F19) (MLRA 149A)	
<input type="checkbox"/> No Stripped Matrix S6	<input type="checkbox"/> No Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D)	
<input type="checkbox"/> No Dark Surface (S7) (LRR P, S, T, U)		

<b>Restrictive Layer (if observed):</b>	<b>Hydric Soil Present?</b>
Type: <u>None</u>	<u>Yes</u>
Depth inches: <u>None</u>	

Remarks:

No soil sample collected. Soils assumed hydric due to extent and duration of inundation.

VEGETATION

SAMPLING POINT

Tree Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
None					<b>Dominance Test Worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC (A): <u>3</u> <hr/> Total Number of Dominant Species Across All Strata <u>3</u> <hr/> Percent of Dominant Species That Are OBL, FACW, or FAC (A/B): <u>100.00%</u>
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Prevalence Index Worksheet:</b> <u>Total % Cover of:</u> <u>Multiply</u> <hr/> OBL                      x1= _____ FACW                      x2= _____ FAC                        x3= _____ FACU                      x4= _____ UPL                        x5= _____ <b>A Totals    B</b> <hr/> Prevalence Index (B/A)= _____ <b>Hydrophytic Vegetation Indicators:</b> Rapid Test for Hydrophytic Veg: <u>No</u> Dominance Test > 50%: <u>Yes</u> Prevalence Index is ≤3.0: <u>N/A</u> Problematic Hydrophytic Veg: <u>No</u>
<b>Sapling Stratum</b> Plot Size: 30'                      Absolute % Cover                      Dominant Species                      Indicator Status					
None					
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					
<b>Shrub Stratum</b> Plot Size: 30'                      Absolute % Cover                      Dominant Species                      Indicator Status					<b>Definitions of Vegetation Strata:</b> Tree - Woody plants, excluding woody vines, approximately 20' or more in height and 3" or larger in DBH.  Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH.  Shrub - Woody plants, excluding woody vines, approximately 3-20' in height.  Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height.  Woody vine - All woody vines, regardless of height.
None					
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					
<b>Herb Stratum</b> Plot Size: 30'                      Absolute % Cover                      Dominant Species                      Indicator Status					
<i>Juncus effusus</i>		40	Yes	OBL	
<i>Persicaria pensylvanica</i>		30	Yes	FACW	
<i>Eleocharis obtusa</i>		20	Yes	OBL	
<u>90</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 45 20% of Total Cover = 18					
<b>Woody Vine Stratum</b> Plot Size: 30'                      Absolute % Cover                      Dominant Species                      Indicator Status					
None					
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					
					<b>Hydrophytic Vegetation Present?</b> <u>Yes</u>

## WETLAND DETERMINATION DATA FORM - ATLANTIC AND GULF COASTAL PLAIN REGION

Project/Site:	Foti Highway 70		Parish: Ascension	Sampling Date:	9/1/2017
Applicant/Owner:	Baton Rouge Area Chamber		State: Louisiana	Sampling Point:	6
Investigator(s):	Tanner Jones, Tim Kimmel		Section, Township, Range:	Section 105, Township 11 South, Range 15 East	
Landform (hillslope, terrace, etc.):	Flat	Local Relief (concave, convex, none):	None		Slope: 0-1%
Subregion (LRR or MLRA):	LRR O	Lat: 30.091918°	Long: -90.936685°	Datum: NAD83	
Soil Map Unit Name:	Sharkey clay, rarely flooded, south		NWI Classification: None		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no explain in Remarks)					
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed?		No	Are "Normal Circumstances" present?		Yes
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic?		No	(If needed, explain any answers in Remarks.)		

<b>SUMMARY OF FINDINGS</b>	
Hydrophytic Vegetation Present?	Yes
Hydric Soil Present?	Yes
Wetland Hydrology Present?	Yes
Remarks:	

<b>HYDROLOGY</b>	
<b>Wetland Hydrology Indicators</b>	Secondary Indicators (Need 2):
Primary Indicators (Need 1):	No Surface Soil Cracked (B6)
Yes Surface Water (A1)	No Sparsely Veg. Concave Surface (B8)
No High Water Table (A2)	No Drainage Patterns (B10)
No Saturation (A3)	No Moss Trim Lines (B16)
No Water Marks (B1)	No Dry-Season Water Table (C2)
No Sediment Deposits (B2)	No Crayfish Burrows (C8)
No Drift Deposits (B3)	No Saturation on Aerial Imagery (C9)
No Algal Mat or Crust (B4)	No Geomorphic Position (D2)
No Iron Deposits (B5)	No Shallow Aquitard (D3)
No Inundation on Aerial Imagery (B7)	Yes FAC-Neutral Test (D5)
	No Sphagnum Moss (D8) (LRR T, U)

<b>Field Observations:</b>				<b>Wetland Hydrology Present?</b>
Surface Water Present?	None	Depth (inches):	2	<u>Yes</u>
Water table Present?	None	Depth (inches):	N/A	
Saturation Present?	None	Depth (inches):	N/A	
Remarks:				

SOIL						
Depth Inches	Matrix		Redox Features			Texture
	Color	%	Color	%	Type	
N/A						

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains      Location: PL=Pore Lining, M=Matrix

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Soils:</b>
No Histol (A1)	No Polyvalue Below Surface (S8) (LRR S,T,U)	No 1cm Muck (A9) (LRR O)
No Histic Epipedon (A2)	No Thin Dark Surface (S9) (LRR S,T,U)	No 2cm Muck (A10) (LRR S)
No Black Histic (A3)	No Loamy Mucky Mineral (F1) (LRR O)	No Reduced Vertic (F18) (outside MLRA 150A,B)
No Hydrogen Sulfide (A4)	No Loamy Gleyed Matrix (F2)	No Piedmont Floodplain Soils (F19) (LRR P,S,T)
No Stratified Layers (A5)	No Depleted Matrix (F3)	No Anomalous Bright Loamy Soils (F20) (MLRA 153B)
No Organic Bodies (A6) (LRR P,T,U)	No Redox Dark Surface (F6)	No Red Parent Material (TF2)
No 5cm Mucky Mineral (A7) (LRR P,T,U)	No Depleted Dark Surface (F7)	No Very Shallow Dark Surface (TF12)
No Muck Presence (A8) (LRR U)	No Redox Depressions (F8)	No Other (Explain)
No 1cm Muck (A9) (LRR P,T)	No Marl (F10) (LRR U)	
No Depleted Below Dark Surface (A11)	No Depleted Ochric (F11) (MLRA 151)	
No Thick Dark Surface (A12)	No Iron-Manganese Masses (F12) (LRR O,P,T)	
No Coast Prairie Redox (A16) (MLRA 150A)	No Umbric Surface (F13) (LRR P, T, U)	
No Sandy Mucky Mineral (S1) (LRR O,S)	No Delta Ochric (F17) (MLRA 151)	
No Sandy Gleyed Matrix (S4)	No Reduced Vertic (F18) (MLRA 150A, 150B)	
No Sandy Redox (S5)	No Piedmont Floodplain Soils (F19) (MLRA 149A)	
No Stripped Matrix S6)	No Anomalous Bright Loamy Soils (F20) (MRLA 149A, 153C, 153D)	
No Dark Surface (S7) (LRR P, S, T, U)		

<b>Restrictive Layer (if observed):</b>	<b>Hydric Soil Present?</b>
Type: None	<u>Yes</u>
Depth inches: None	

Remarks:

No soil sample collected. Soils assumed hydric due to extent and duration of inundation.

VEGETATION

SAMPLING POINT

Tree Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
None					<b>Dominance Test Worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC (A): <u>3</u> <hr/> Total Number of Dominant Species Across All Strata <u>3</u> <hr/> Percent of Dominant Species That Are OBL, FACW, or FAC (A/B): <u>100.00%</u>
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Prevalence Index Worksheet:</b> <u>Total % Cover of:</u> <u>Multiply</u> <hr/> OBL                      x1= _____ FACW                      x2= _____ FAC                          x3= _____ FACU                      x4= _____ UPL                          x5= _____ <b>A Totals                      B</b>
Sapling Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
None					Prevalence Index (B/A)= _____ <b>Hydrophytic Vegetation Indicators:</b> Rapid Test for Hydrophytic Veg: <u>No</u> Dominance Test > 50%: <u>Yes</u> Prevalence Index is ≤3.0: <u>N/A</u> Problematic Hydrophytic Veg: <u>No</u>
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Definitions of Vegetation Strata:</b> Tree - Woody plants, excluding woody vines, approximately 20' or more in height and 3" or larger in DBH.  Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH.  Shrub - Woody plants, excluding woody vines, approximately 3-20' in height.  Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height.  Woody vine - All woody vines, regardless of height.
Shrub Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
None					Sapling - Woody plants, excluding woody vines, approximately 20' or more in height and less than 3" in DBH.  Shrub - Woody plants, excluding woody vines, approximately 3-20' in height.  Herb - All herbaceous plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3' in height.  Woody vine - All woody vines, regardless of height.
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					Remarks:
Herb Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
<i>Persicaria pensylvanica</i>		30	Yes	FACW	Remarks:
<i>Eleocharis obtusa</i>		20	Yes	OBL	
<i>Rhynchospora corniculata</i>		15	Yes	OBL	
<i>Juncus effusus</i>		10	No	OBL	
<u>75</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 37.5 20% of Total Cover = 15					Remarks:
Woody Vine Stratum	Plot Size: 30'	Absolute % Cover	Dominant Species	Indicator Status	
None					Remarks:
<u>0</u> = Total Cover                      50/20 Threshold 50% of Total Cover = 0 20% of Total Cover = 0					<b>Hydrophytic Vegetation Present?</b> <u>Yes</u>