

Exhibit EE. AC Commercial Site Wetlands Delineation Report



AC Commercial Site Wetlands Delineation Report

One Acadiana

AC Commercial Site

Lafayette Parish, LA

March 2021

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1.0 INTRODUCTION

A routine wetland delineation was conducted by Blue Ox Enterprises, LLC (Blue Ox) on February 25th, 2021 at the approximately 46.6 acre AC Commercial Site, in Broussard, LA (Site). The purpose of the wetland delineation was to determine the presence/absence of wetlands at the Site. The Site is situated on a tract that was historically used for agricultural activities, primarily for sugar cane production. The site does contain a small portion approximately 5.6 acres in size that is currently in agriculture production according to Louisiana Department of Agriculture.

The Site is located in Section 34, T10S-E05E & Section 3, T11S-R05E. Geographically, the Site is located 1.5 miles south from Broussard, Louisiana in Lafayette Parish. The location of the Site is illustrated on the maps in **Appendix C**.

Based on the data collected, it is Blue Ox's professional opinion that two jurisdictional waters exist on northeast corner of the Site. The jurisdictional waters traverse across the corner of the site and are approximately 660 feet and 85 feet. The Site also contains a herbaceous wetland and a recently dredged man-made water feature on the southeastern portion of the site. These two features are in Blue Ox's professional opinion potentially non-jurisdictional.

2.0 METHODOLOGY

A review of the project site was conducted with the following tools to identify potential wetland indicators according to the 1987 Wetland Delineation Manual and Regional Supplement:

- USGS 7.5-minute topographic quadrangle maps,
- National Wetlands Inventory Maps
- Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979);
- The PLANTS Database (USDA / NRCS);
- U.S. Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS) Web Soil Survey
- USGS National Hydrography Dataset (NHD);
- Remote Sensing Aerial Photography including National Agricultural Imagery Program (NAIP) natural color and color infrared aerial photography;
- FEMA Floodplain Maps

Data sources were utilized as appropriate, findings were summarized, and a preliminary evaluation was conducted to determine potential existence of wetland indicators in the project area. After considering the preliminary data, a routine delineation method level was selected.

Per the 1987 Wetland Delineation Manual, the complexity of the project area and the quality and quantity of available information will be the influences governing the Routine Wetland Delineation Level. The three levels are as follows:

- Level 1 – An onsite inspection is unnecessary because existing information is sufficient for making a determination for the entire project area.
- Level 2 – An onsite inspection is necessary because insufficient information is available to characterize the vegetation, soils, and hydrology of the entire project area.
- Level 3 - An onsite inspection is necessary because sufficient information is available for a portion, but not all, of the project area.

This routine wetland delineation is a Level 2 Delineation. The delineators evaluated the three technical criteria: vegetation, hydrology, and soils in accordance with the 1987 U.S. Army Corps of Engineers (COE) Wetlands Delineation Manual, and the Gulf Coastal Plain Regional Supplement to the 1987 manual. All three criteria must be present in order to be a potentially jurisdictional wetland. The absence of any of these criteria could exclude an area from being a wetland under the jurisdiction of the Corps of Engineers. As per the 1987 U.S. Army Corps of Engineers (COE) Wetlands Delineation Manual, and the Gulf Coastal Plain Regional Supplement to the 1987 manual, the methodology for the delineation of the Site.

3.0 FINDINGS

A total of eight sample plots were taken on the Site. The sample plot locations were selected based on visual observations of changes in vegetation and/or topography. Recorded data forms are presented in **Appendix A**. Photographs are presented in **Appendix B**. The photographs illustrate typical conditions that were observed at the plots and various locations. Locations of the sample plots relative to the Site can be referenced in **Appendix C**.

3.1 Hydrology

3.1.1 General Site Characteristics

The Site exists on a relatively flat landform. Generally, slopes range from 0-2%. Surface saturation or inundation was observed on referenced infrared images. The site was historically used for agricultural activities and farmed primarily for sugar cane production. There were four observed and documented wetland/water features within the Site. The locations of these features in relation to the Site can be referenced in **Appendix C**.

3.1.2 Sample Plot Data

One sample plot did meet the criteria for the presence of wetland hydrology. Sample Plot 7 met primary indicators of high water table, saturation and secondary indicator of crayfish burrows. The wetland hydrology indicators, remarks, and determinations can be reviewed in detail on the data sheets located in **Appendix A**.

3.2 Vegetation

3.2.1 General Site Characteristics

The site consisted of primarily of sugar cane production. Approximately 20 acres of site is fallow with scrub-shrub vegetation species and contains furrows from agricultural activities. The site does contain a small portion approximately 5.6 acres in size that is currently in agriculture production according to Louisiana Department of Agriculture. There is a small forested corridor that borders the observed other water that traverses the northeastern portion of the site. The southwestern and northeastern portions of the site have been plowed and leveled, and was comprised of herbaceous vegetation.

3.2.2 Sample Plot Data

Sample plots 2-5 & 7 met the criteria for presence of wetland vegetation. The vegetation for all Sample Plots is noted in **Appendix A**. Dominance/Prevalence calculations, vegetation, criteria determination can be referenced in the corresponding data sheets. Photos can be found in **Appendix B**.

3.3 Soils

3.3.1 General Site Characteristics

According to the Lafayette Parish Soil Survey, the Site contains the following NRCS mapped soil types (**Appendix C**):

Map Symbol	Soil Name	Hydric Rating
MbC	Memphis silt loam, 1 to 5 percent slopes	0% hydric
CtB	Coteau-Frost complex, gently undulating	35% hydric
FoA	Frost silt loam, 0 to 1 percent slopes, 90%	90% hydric

The site is located within the above listed NRCS-mapped soil units and the Site is comprised predominately of non-hydric soils according to the hydric ratings.

3.3.2 Sample Plot Data

The Sample plots 2-8 met the criteria for the presence of hydric soil for a wetland. Depleted Matrix and Redox Dark Surface were the hydric soil indicators that were met. Soil characteristics associated with each plot can be found in the corresponding data sheets located in **Appendix A**.

4.0 SUMMARY AND CONCLUSIONS

4.1 Data Summary

Only sample plot 7 met all three technical criteria of a wetland. The following table illustrates the results of the sample plot data:

Data Plot	Hydrology	Vegetation	Soils
Plot 1	N	N	N
Plot 2	N	Y	Y
Plot 3	N	Y	Y
Plot 4	N	Y	Y
Plot 5	N	Y	Y
Plot 6	N	N	Y
Plot 7	Y	Y	Y
Plot 8	N	N	Y

4.2 Conclusion

Based on the data collected, it is Blue Ox's professional opinion that two jurisdictional waters exist on northeast corner of the Site. The jurisdictional waters traverse across the corner of the site and are approximately 660 feet and 85 feet. The Site also contains a herbaceous wetland and a recently dredged man-made water feature on the southeastern portion of the site. These two features are in Blue Ox's professional opinion potentially non-jurisdictional. The Site is illustrated in the maps of **Appendix C** and represented by the wetland determination forms of **Appendix A**.

The limits of the Site were not staked at the time of the delineation. It is recommended that any mechanized land clearing, or redistribution of earthen material outside the limits of the area depicted in this report, the Site may require additional data collection and determinations. Mechanized land clearing, tracking, soil disturbance or other temporary or permanent fill within wetlands or other waters would require a USACE permit.

A jurisdictional wetland determination can only be made by the U.S. Corps of Engineers (USACE). Consultants such as Blue Ox can perform wetland delineations, and submit data collected in the prescribed manner to the USACE along with recommendations; however, it is the USACE that makes the final determination. The New Orleans District of the USACE has jurisdiction in the area of this site.

5.0 REFERENCES

Corps of Engineers Wetlands Delineation Manual. 1987. Technical Report Y-87-1.

National List of Vascular Plants Species that Occur in Wetlands. Prepared by Ecology Section, National Wetlands Inventory, U.S. Fish and Wildlife Service.

U.S. Department of Agriculture, Natural Resources Conservation Service. 1998. Field Indicators of Hydric Soils in the United States, version 6.0. G.W. Hurt, Whited, P.M., and Pringle, R.F. (eds.). USDA, NRCS, Fort Worth, TX.

Soil Mapping Units and Hydric Soils Designations Louisiana. May 1995. Third Edition

U.S. Army Corps of Engineers. October 2008. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region. Final Report

6.0 DEFINITIONS

Term	Definition
<i>Aerobic</i>	A situation in which molecular oxygen is a part of the environment.
<i>Anaerobic</i>	A situation in which molecular oxygen is absent (or effectively so) from the environment
<i>Atypical situation</i>	As used herein, this term refers to areas in which one or more parameters (vegetation, soil, and/or hydrology) have been sufficiently altered by recent human activities or natural events to preclude the presence of wetland indicators of the parameter.
<i>Dominance Test</i>	This evaluation test ranks plant species that immediately exceed 50% of the total dominance measure for a vegetation stratum, plus any additional species comprising 20% or more of the total dominance measure for that stratum. As part of the vegetation criteria, species dominance is evaluated using the "50/20 rule."
<i>Growing season</i>	The portion of the year when soil temperatures at 19.7 in. below the soil surface are higher than biologic zero (5 (C) (U.S. Department of Agriculture & Soil Conservation Service 1985). For ease of determination this period can be approximated by the number of frost-free days (U.S Department of the Interior 1970).
<i>Hydric Soils</i>	<p>Hydric soils are defined as soils that are formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, July 13, 1994). Almost all hydric soils exhibit characteristic morphologies that are a result of repeated periods of saturation and/or inundation for more than a few days at a time. Saturation and inundation causes a depletion of oxygen in the soil when combined with anaerobic microbial activity in the soil. This anaerobiosis process results in characteristic morphologies such as the reduction, translocation, and/or the accumulation of iron. This process forms features in the soil that are called redoximorphic features that are particularly useful for identifying hydric soils.</p> <p>The soil investigation criterion requires the use of a soil probe or a pit excavated to a 16-inch depth in order to investigate for hydric indicators. These indicators typically include, but are not limited to:</p> <ul style="list-style-type: none"> • gleyed or low-chroma colors (redoximorphic features) • mottles (redoximorphic features) • listed on the local hydric soils list • listed on the national hydric soils list • concretions (redoximorphic features).
<i>Hydrophytic Species</i>	Hydrophytic species, due to morphological, physiological, and/or reproductive adaptation(s), have the ability to grow, effectively compete, reproduce, and/or persist in anaerobic soil conditions.

Term	Definition																		
<i>Hydrophytic Vegetation</i>	<p>In order for the vegetation to be considered hydrophytic (wet), the prevalent vegetation must consist of <i>macrophytes</i> that are typically adapted to areas having hydrologic and soil conditions unique to wetlands (e.g. must be <i>hydrophytic species</i>). Prevalent vegetation is characterized by the dominant species comprising the plant community or communities. Dominant plant species are those that contribute more to the character of a plant community than other species present, as estimated or measured in terms of some ecological parameter or parameters. The two most commonly used estimates of dominance are basal area (trees) and percent areal cover (herbs). During a routine wetland delineation, the rapid test, <i>dominance test</i>, and <i>prevalence index</i> are predominantly used to determine if hydrophytic vegetation is present at a sample plot.</p>																		
<i>Macrophytes</i>	<p>Macrophytes are any plant material that can be seen without the aid of magnification.</p>																		
<i>Plant Indicator Status Categories</i>	<p>Categories originally developed and defined by the USFWS National Wetlands Inventory and subsequently modified by the National Plant List Panel. The three facultative categories are subdivided by (+) and (-) modifiers.</p> <table border="1" data-bbox="399 758 1484 1383"> <thead> <tr> <th data-bbox="399 758 721 827">Indicator Category</th> <th data-bbox="721 758 854 827">Indicator Symbol</th> <th data-bbox="854 758 1484 827">Definition</th> </tr> </thead> <tbody> <tr> <td data-bbox="399 827 721 957"><i>Obligate Wetland Plants</i></td> <td data-bbox="721 827 854 957">(OBL)</td> <td data-bbox="854 827 1484 957">Plants that occur almost always (estimated probability >99%) in wetlands under natural conditions, but which may also occur rarely (estimated probability <1%) in non-wetlands.</td> </tr> <tr> <td data-bbox="399 957 721 1058"><i>Facultative Wetland Plants</i></td> <td data-bbox="721 957 854 1058">(FACW)</td> <td data-bbox="854 957 1484 1058">Plants that occur usually (estimated probability >67% to 99%) in wetlands, but also occur (estimated probability 1% to 33%) in non-wetlands.</td> </tr> <tr> <td data-bbox="399 1058 721 1159"><i>Facultative Plants</i></td> <td data-bbox="721 1058 854 1159">(FAC)</td> <td data-bbox="854 1058 1484 1159">Plants with a similar likelihood (estimated probability 33% to 67%) of occurring in both wetlands and non-wetlands.</td> </tr> <tr> <td data-bbox="399 1159 721 1260"><i>Facultative Upland Plants</i></td> <td data-bbox="721 1159 854 1260">(FACU)</td> <td data-bbox="854 1159 1484 1260">Plants that occur sometimes (estimated probability 1% to <33%) in wetlands, but occur more often (estimated probability >67% to 99%) in non-wetlands.</td> </tr> <tr> <td data-bbox="399 1260 721 1383"><i>Obligate Upland Plants</i></td> <td data-bbox="721 1260 854 1383">(UPL)</td> <td data-bbox="854 1260 1484 1383">Plants that occur rarely (estimated probability <1%) in wetlands, but occur almost always (estimate probability >99%) in non-wetlands under natural conditions.</td> </tr> </tbody> </table>	Indicator Category	Indicator Symbol	Definition	<i>Obligate Wetland Plants</i>	(OBL)	Plants that occur almost always (estimated probability >99%) in wetlands under natural conditions, but which may also occur rarely (estimated probability <1%) in non-wetlands.	<i>Facultative Wetland Plants</i>	(FACW)	Plants that occur usually (estimated probability >67% to 99%) in wetlands, but also occur (estimated probability 1% to 33%) in non-wetlands.	<i>Facultative Plants</i>	(FAC)	Plants with a similar likelihood (estimated probability 33% to 67%) of occurring in both wetlands and non-wetlands.	<i>Facultative Upland Plants</i>	(FACU)	Plants that occur sometimes (estimated probability 1% to <33%) in wetlands, but occur more often (estimated probability >67% to 99%) in non-wetlands.	<i>Obligate Upland Plants</i>	(UPL)	Plants that occur rarely (estimated probability <1%) in wetlands, but occur almost always (estimate probability >99%) in non-wetlands under natural conditions.
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<i>Prevalence Index</i>	<p>The prevalence index is a wetland indicator which takes into account all plant species and calculates a weighted average by assigning each indicator status category a numeric code (OBL = 1, FACW = 2, FAC = 3, FACU = 4, and UPL = 5). Plant species are also weighted by their abundance. It is a more comprehensive analysis of the hydrophytic status of a community than one based on a few dominant species. The prevalence index ranges from 1 to 5, and a prevalence index of 3.0 or less indicates that hydrophytic vegetation is present. If, using the dominance test, the recorded plant species does not exceed 50% of the total dominance, the prevalence index shall be used to determine if hydrophytic vegetation is present.</p>																		
<i>Rapid Test for hydrophytic vegetation</i>	<p>The Rapid Test is intended as a quick confirmation in obvious cases that a site has hydrophytic vegetation without the need for intensive sampling. When, based on visual assessment, all dominant species across all strata are rated OBL, FACW, or a combination of these two categories, the rapid test confirms hydrophytic vegetation is present at the site.</p>																		

Term	Definition
<i>Routine wetland determination</i>	A type of wetland determination in which office data and/or relatively simple, rapidly applied onsite methods are employed to determine whether or not an area is a wetland. Most wetland determinations are of this type, which usually does not require collection of quantitative data.
<i>Sample plot</i>	An area of land used for measuring or observing existing conditions
<i>Transect</i>	As used herein, a line on the ground along which observations are made at some interval
<i>Typically Adapted</i>	The term "typically adapted" refers to a species being normally or commonly suited to a given set of environmental conditions, due to some morphological, physiological, or reproductive adaptation. Species that have a wetland indicator status of OBL, FACW, or FAC are considered to be typically adapted for life in anaerobic soil conditions.
<i>Under normal circumstances</i>	As used in the definition of wetlands, this term refers to situations in which the vegetation has not been substantially altered by man's activities.
<i>Upland</i>	As used herein, any area that does not qualify as a wetland because the associated hydrologic regime is not sufficiently wet to elicit development of vegetation, soils, and/or hydrologic characteristics associated with wetlands. Such areas occurring within floodplains are more appropriately termed non-wetlands.
<i>Wetlands</i>	<p>The Corps of Engineers and the EPA jointly define wetlands as those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Wetlands have the following general diagnostic environmental characteristics:</p> <ul style="list-style-type: none"> (1) Hydrophytic Vegetation (2) Hydric Soils (3) Wetland Hydrology <p>Except in unique situations defined in the 1987 Wetland Delineation Manual and appropriate Regional Supplement, evidence of a minimum of one positive wetland indicator from each parameter (hydrology, soil, and vegetation) must be found in order to make a positive wetland determination.</p>
<i>Wetland boundary</i>	The point on the ground at which a shift from wetlands to non-wetlands or aquatic habitats occurs. These boundaries usually follow contours.
<i>Wetland determination</i>	The process or procedure by which an area is adjudged a wetland or non-wetland by the US Army Corps of Engineers.

Term	Definition				
<p><i>Wetland Hydrology</i></p>	<p>As defined by the 1987 COE Manual, the term “wetland hydrology” encompasses all hydrologic characteristics of areas that are periodically inundated (at mean water depths less than or equal to 6.6 feet) or have soils saturated to the surface at some time during the growing season of prevalent vegetation. Evident characteristics of wetland hydrology are generally found in areas where the presence of water has an overriding influence on characteristics of vegetation and soils due to anaerobic and reducing conditions.</p> <p>Wetland hydrology indicators provide evidence that the Site currently has a wetland hydrologic regime. They may not provide an abundance of information about long-term wetness conditions on a given site; however, when coupled with the presence of hydrophytic vegetation and hydric soils, hydrology indicators provide evidence of long-term as well as short-term wetland conditions. In order to meet the hydrology criteria of a wetland, a sample location must meet one primary indicator or two secondary indicators.</p> <table border="1" data-bbox="402 695 1482 1333"> <thead> <tr> <th data-bbox="402 695 967 730"><i>Primary Indicators include:</i></th> <th data-bbox="972 695 1482 730"><i>Secondary Indicators include:</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="402 730 967 1333"> <ul style="list-style-type: none"> • Surface Water (A1) • High Water Table (A2) • Saturation (A3) • Water Marks (B1) • Sediment Deposits (B2) • Drift Deposits (B3) • Algal Mat or Crust (B4) • Iron Deposits (B5) • Inundation visible on Aerial Imagery (B7) • Water-Stained Leaves (B9) • Aquatic Fauna (B13) • Marl Deposits (B15) (LRR U) • Hydrogen Sulfide Odor (C1) • Oxidized Rhizospheres on Living Roots (C3) • Presence of Reduced Iron (C4) • Recent Iron Reduction in Tilled Soils (C6) • Thin Muck Surface (C7) • Other (Explain in Remarks) </td> <td data-bbox="972 730 1482 1333"> <ul style="list-style-type: none"> • Surface Soil Cracks (B6) • Sparsely Vegetated Concave Surface (B8) • Drainage Patterns (B10) • Moss Trim Lines (B16) • Dry-Season Water Table (C2) • Crayfish Burrows (C8) • Saturation Visible on Aerial Imagery (C9) • Geomorphic Position (D2) • Shallow Aquitard (D3) • FAC-Neutral Test (D5) </td> </tr> </tbody> </table>	<i>Primary Indicators include:</i>	<i>Secondary Indicators include:</i>	<ul style="list-style-type: none"> • Surface Water (A1) • High Water Table (A2) • Saturation (A3) • Water Marks (B1) • Sediment Deposits (B2) • Drift Deposits (B3) • Algal Mat or Crust (B4) • Iron Deposits (B5) • Inundation visible on Aerial Imagery (B7) • Water-Stained Leaves (B9) • Aquatic Fauna (B13) • Marl Deposits (B15) (LRR U) • Hydrogen Sulfide Odor (C1) • Oxidized Rhizospheres on Living Roots (C3) • Presence of Reduced Iron (C4) • Recent Iron Reduction in Tilled Soils (C6) • Thin Muck Surface (C7) • Other (Explain in Remarks) 	<ul style="list-style-type: none"> • Surface Soil Cracks (B6) • Sparsely Vegetated Concave Surface (B8) • Drainage Patterns (B10) • Moss Trim Lines (B16) • Dry-Season Water Table (C2) • Crayfish Burrows (C8) • Saturation Visible on Aerial Imagery (C9) • Geomorphic Position (D2) • Shallow Aquitard (D3) • FAC-Neutral Test (D5)
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APPENDIX A – DATA SHEETS

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: AC Commercial Site City/County: Broussard Sampling Date: 25-Feb-21
 Applicant/Owner: One Acadiana State: LA Sampling Point: 1
 Investigator(s): Ryne Menard Section, Township, Range: S 34 T 10S R 05E
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): concave Slope: 1.0 % / 0.6 °
 Subregion (LRR or MLRA): LRR O Lat.: 91° 57' 7.148" W Long.: 30° 7' 32.599" N Datum: NAD83
 Soil Map Unit Name: CtB:Coteau-Frost complex, gently undulating, 35% Hydric NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____		
Remarks: _____		

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: 1

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		0	= Total Cover	
Sapling or Sapling/Shrub Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		0	= Total Cover	
Shrub Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		0	= Total Cover	
Herb Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	<u>Andropogon gyrans</u>	40	<input checked="" type="checkbox"/> 39.2%	FACU
2.	<u>Solidago altissima</u>	30	<input checked="" type="checkbox"/> 29.4%	FACU
3.	<u>Eupatorium capillifolium</u>	15	<input type="checkbox"/> 14.7%	FACU
4.	<u>Rubus argutus</u>	10	<input type="checkbox"/> 9.8%	FAC
5.	<u>Lygodium japonicum</u>	5	<input type="checkbox"/> 4.9%	FAC
6.	<u>Ilex vomitoria</u>	2	<input type="checkbox"/> 2.0%	FAC
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
9.	_____	0	<input type="checkbox"/> 0.0%	_____
10.	_____	0	<input type="checkbox"/> 0.0%	_____
11.	_____	0	<input type="checkbox"/> 0.0%	_____
12.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>51</u> 20% of Total Cover: <u>20.4</u>		102	= Total Cover	
Woody Vine Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 17 x 3 = 51

FACU species 85 x 4 = 340

UPL species 0 x 5 = 0

Column Total s: 102 (A) 391 (B)

Prevalence Index = B/A = 3.833

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is > 50%
 - 3 - Prevalence Index is ≤3.0¹
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Tv _{oe} ¹	Loc ²				
0-16	10YR	4/3	100						Silt Loam	
16-20	10YR	4/3	95	10YR	6/8	5	C	M	Silt Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Muck Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: AC Commercial Site City/County: Broussard Sampling Date: 25-Feb-21
 Applicant/Owner: One Acadiana State: LA Sampling Point: 2
 Investigator(s): Ryne Menard Section, Township, Range: S 34 T 10S R 05E
 Landform (hillslope, terrace, etc.): Undulating Local relief (concave, convex, none): convex Slope: 1.0 % / 0.6 °
 Subregion (LRR or MLRA): LRR O Lat.: 91° 57' 11.378" W Long.: 30° 7' 32.663" N Datum: NAD83
 Soil Map Unit Name: CtB:Coteau-Frost complex, gently undulating, 35% Hydric NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Area still has furroughs from agriculture activities.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____	
Remarks: _____ _____	

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: 2

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		<u>0</u>	= Total Cover	
Sapling or Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		<u>0</u>	= Total Cover	
Shrub Stratum (Plot size: <u>30'</u>)				
1.	<u>Baccharis halimifolia</u>	25	<input checked="" type="checkbox"/> 100.0%	FAC
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>12.5</u> 20% of Total Cover: <u>5</u>		<u>25</u>	= Total Cover	
Herb Stratum (Plot size: <u>30'</u>)				
1.	<u>Rubus argutus</u>	80	<input checked="" type="checkbox"/> 92.0%	FAC
2.	<u>Lygodium japonicum</u>	5	<input type="checkbox"/> 5.7%	FAC
3.	<u>Lonicera japonica</u>	2	<input type="checkbox"/> 2.3%	FACU
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
9.	_____	0	<input type="checkbox"/> 0.0%	_____
10.	_____	0	<input type="checkbox"/> 0.0%	_____
11.	_____	0	<input type="checkbox"/> 0.0%	_____
12.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>43.5</u> 20% of Total Cover: <u>17.4</u>		<u>87</u>	= Total Cover	
Woody Vine Stratum (Plot size: _____)				
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		<u>0</u>	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 110 x 3 = 330

FACU species 2 x 4 = 8

UPL species 0 x 5 = 0

Column Total s: 112 (A) 338 (B)

Prevalence Index = B/A = 3.018

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is > 50%
 - 3 - Prevalence Index is ≤3.0¹
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features				Texture	Remarks	
	Color (moist)		%	Color (moist)	%	Type ¹	Loc ²			
0-20	10YR	2/2	95	10YR	4/6	5	C	M	Clay Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U) <input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U) <input type="checkbox"/> Muck Presence (A8) (LRR U) <input type="checkbox"/> 1 cm Muck (A9) (LRR P, T) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR O, S) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)			<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U) <input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Marl (F10) (LRR U) <input type="checkbox"/> Depleted Ochric (F11) (MLRA 151) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T) <input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U) <input type="checkbox"/> Delta Ochric (F17) (MLRA 151) <input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)			Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR O) <input type="checkbox"/> 2 cm Muck (A10) (LRR S) <input type="checkbox"/> Reduced Vertic (F18) (outside MLRA 150A,B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)		
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: AC Commercial Site City/County: Broussard Sampling Date: 25-Feb-21
 Applicant/Owner: One Acadiana State: LA Sampling Point: 3
 Investigator(s): Ryne Menard Section, Township, Range: S 34 T 10S R 05E
 Landform (hillslope, terrace, etc.): Undulating Local relief (concave, convex, none): convex Slope: 1.0 % / 0.6 °
 Subregion (LRR or MLRA): LRR O Lat.: 91° 57' 20.885" W Long.: 30° 7' 32.791" N Datum: NAD83
 Soil Map Unit Name: MbA:Memphis silt loam, 0 to 1 percent slopes:5% Hydric NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Area still has furroughs from agriculture activities.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 	
Remarks:	

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: 3

	Absolute % Cover		Dominant Species? Rel.Strat. Cover		Indicator Status
Tree Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/>	0.0%		
2. _____	0	<input type="checkbox"/>	0.0%		
3. _____	0	<input type="checkbox"/>	0.0%		
4. _____	0	<input type="checkbox"/>	0.0%		
5. _____	0	<input type="checkbox"/>	0.0%		
6. _____	0	<input type="checkbox"/>	0.0%		
7. _____	0	<input type="checkbox"/>	0.0%		
8. _____	0	<input type="checkbox"/>	0.0%		
50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover		
Sapling or Sapling/Shrub Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/>	0.0%		
2. _____	0	<input type="checkbox"/>	0.0%		
3. _____	0	<input type="checkbox"/>	0.0%		
4. _____	0	<input type="checkbox"/>	0.0%		
5. _____	0	<input type="checkbox"/>	0.0%		
6. _____	0	<input type="checkbox"/>	0.0%		
7. _____	0	<input type="checkbox"/>	0.0%		
8. _____	0	<input type="checkbox"/>	0.0%		
50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover		
Shrub Stratum (Plot size: <u>30'</u>)					
1. <u>Baccharis halimifolia</u>	<u>60</u>	<input checked="" type="checkbox"/>	<u>100.0%</u>	<u>FAC</u>	
2. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
3. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
4. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
5. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
6. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
50% of Total Cover: <u>30</u>	20% of Total Cover: <u>12</u>	<u>60</u>	= Total Cover		
Herb Stratum (Plot size: <u>30'</u>)					
1. <u>Rubus argutus</u>	<u>35</u>	<input checked="" type="checkbox"/>	<u>58.3%</u>	<u>FAC</u>	
2. <u>Lygodium japonicum</u>	<u>10</u>	<input type="checkbox"/>	<u>16.7%</u>	<u>FAC</u>	
3. <u>Baccharis halimifolia</u>	<u>5</u>	<input type="checkbox"/>	<u>8.3%</u>	<u>FAC</u>	
4. <u>Panicum virgatum</u>	<u>5</u>	<input type="checkbox"/>	<u>8.3%</u>	<u>FAC</u>	
5. <u>Andropogon gyrans</u>	<u>5</u>	<input type="checkbox"/>	<u>8.3%</u>	<u>FACU</u>	
6. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
7. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
8. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
9. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
10. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
11. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
12. _____	<u>0</u>	<input type="checkbox"/>	<u>0.0%</u>		
50% of Total Cover: <u>30</u>	20% of Total Cover: <u>12</u>	<u>60</u>	= Total Cover		
Woody Vine Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/>	0.0%		
2. _____	0	<input type="checkbox"/>	0.0%		
3. _____	0	<input type="checkbox"/>	0.0%		
4. _____	0	<input type="checkbox"/>	0.0%		
5. _____	0	<input type="checkbox"/>	0.0%		
50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 115 x 3 = 345

FACU species 5 x 4 = 20

UPL species 0 x 5 = 0

Column Total s: 120 (A) 365 (B)

Prevalence Index = B/A = 3.042

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is > 50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **3**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)	%	Tvpe ¹	Loc ²			
0-14	10YR	2/2	95	10YR	4/6	5	C	M	Clay Loam	
14-20	10YR	5/3	65	10YR	2/2	30	D	M	Clay Loam	
				10YR	4/6	5	C	M	Clay Loam	

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)</p> <p><input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)</p> <p><input type="checkbox"/> Muck Presence (A8) (LRR U)</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)</p> <p><input type="checkbox"/> Sandy Muck Mineral (S1) (LRR O, S)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)</p>	<p><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input checked="" type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Marl (F10) (LRR U)</p> <p><input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)</p> <p><input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)</p> <p><input type="checkbox"/> Delta Ochric (F17) (MLRA 151)</p> <p><input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)</p> <p><input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 1 cm Muck (A9) (LRR O)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR S)</p> <p><input type="checkbox"/> Reduced Vertic (F18) (outside MLRA 150A,B)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T)</p> <p><input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: AC Commercial Site City/County: Broussard Sampling Date: 25-Feb-21
 Applicant/Owner: One Acadiana State: LA Sampling Point: 4
 Investigator(s): Ryne Menard Section, Township, Range: S 34 T 10S R 05E
 Landform (hillslope, terrace, etc.): Undulating Local relief (concave, convex, none): convcave Slope: 1.0 % / 0.6 °
 Subregion (LRR or MLRA): LRR O Lat.: 91° 57' 5.745" W Long.: 30° 7' 27.527" N Datum: NAD83
 Soil Map Unit Name: MbA:Memphis silt loam, 0 to 1 percent slopes:5% Hydric NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Area still has furroughs from agriculture activities.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____ _____	
Remarks: _____ _____ _____	

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: 4

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover
Sapling or Sapling/Shrub Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover
Shrub Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	<u>Baccharis halimifolia</u>	<u>30</u>	<input checked="" type="checkbox"/> <u>66.7%</u>	<u>FAC</u>
2.	<u>Morella cerifera</u>	<u>10</u>	<input checked="" type="checkbox"/> <u>22.2%</u>	<u>FAC</u>
3.	<u>Pinus taeda</u>	<u>5</u>	<input type="checkbox"/> <u>11.1%</u>	<u>FAC</u>
4.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
5.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
6.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
50% of Total Cover: <u>22.5</u>		20% of Total Cover: <u>9</u>	<u>45</u>	= Total Cover
Herb Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	<u>Solidago altissima</u>	<u>35</u>	<input checked="" type="checkbox"/> <u>50.0%</u>	<u>FACU</u>
2.	<u>Rubus argutus</u>	<u>20</u>	<input checked="" type="checkbox"/> <u>28.6%</u>	<u>FAC</u>
3.	<u>Baccharis halimifolia</u>	<u>15</u>	<input checked="" type="checkbox"/> <u>21.4%</u>	<u>FAC</u>
4.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
5.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
6.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
7.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
8.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
9.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
10.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
11.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
12.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
50% of Total Cover: <u>35</u>		20% of Total Cover: <u>14</u>	<u>70</u>	= Total Cover
Woody Vine Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 80 x 3 = 240

FACU species 35 x 4 = 140

UPL species 0 x 5 = 0

Column Total s: 115 (A) 380 (B)

Prevalence Index = B/A = 3.304

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is > 50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **4**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)	%	Tvpe ¹	Loc ²			
0-5	10YR	4/2	95	10YR	5/8	5	C	M	Clay Loam	
5-20	10YR	2/1	75	10YR	7/1	20	D	M	Clay Loam	
				10YR	5/8	5	C	M	Clay Loam	

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U) <input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U) <input type="checkbox"/> Muck Presence (A8) (LRR U) <input type="checkbox"/> 1 cm Muck (A9) (LRR P, T) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR O, S) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U) <input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Marl (F10) (LRR U) <input type="checkbox"/> Depleted Ochric (F11) (MLRA 151) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T) <input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U) <input type="checkbox"/> Delta Ochric (F17) (MLRA 151) <input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR O) <input type="checkbox"/> 2 cm Muck (A10) (LRR S) <input type="checkbox"/> Reduced Vertic (F18) (outside MLRA 150A,B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: AC Commercial Site City/County: Broussard Sampling Date: 25-Feb-21
 Applicant/Owner: One Acadiana State: LA Sampling Point: 5
 Investigator(s): Ryne Menard Section, Township, Range: S 34 T 10S R 05E
 Landform (hillslope, terrace, etc.): Undulating Local relief (concave, convex, none): convex Slope: 1.0 % / 0.6 °
 Subregion (LRR or MLRA): LRR O Lat.: 91° 57' 14.862" W Long.: 30° 7' 27.552" N Datum: NAD83
 Soil Map Unit Name: MbA:Memphis silt loam, 0 to 1 percent slopes:5% Hydric NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Area still has furroughs from agriculture activities.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: 5

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		0	= Total Cover	
Sapling or Sapling/Shrub Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		0	= Total Cover	
Shrub Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	<u>Baccharis halimifolia</u>	20	<input checked="" type="checkbox"/> 66.7%	FAC
2.	<u>Morella cerifera</u>	10	<input checked="" type="checkbox"/> 33.3%	FAC
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>15</u> 20% of Total Cover: <u>6</u>		30	= Total Cover	
Herb Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	<u>Rubus argutus</u>	40	<input checked="" type="checkbox"/> 44.4%	FAC
2.	<u>Solidago altissima</u>	15	<input checked="" type="checkbox"/> 16.7%	FACU
3.	<u>Baccharis halimifolia</u>	10	<input type="checkbox"/> 11.1%	FAC
4.	<u>Lygodium japonicum</u>	10	<input type="checkbox"/> 11.1%	FAC
5.	<u>Cirsium horridulum</u>	5	<input type="checkbox"/> 5.6%	FAC
6.	<u>Andropogon gyrans</u>	5	<input type="checkbox"/> 5.6%	FACU
7.	<u>Eupatorium capillifolium</u>	5	<input type="checkbox"/> 5.6%	FACU
8.	_____	0	<input type="checkbox"/> 0.0%	_____
9.	_____	0	<input type="checkbox"/> 0.0%	_____
10.	_____	0	<input type="checkbox"/> 0.0%	_____
11.	_____	0	<input type="checkbox"/> 0.0%	_____
12.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>45</u> 20% of Total Cover: <u>18</u>		90	= Total Cover	
Woody Vine Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>		0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 95 x 3 = 285

FACU species 25 x 4 = 100

UPL species 0 x 5 = 0

Column Total s: 120 (A) 385 (B)

Prevalence Index = B/A = 3.208

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is > 50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: AC Commercial Site City/County: Broussard Sampling Date: 25-Feb-21
 Applicant/Owner: One Acadiana State: LA Sampling Point: 6
 Investigator(s): Ryne Menard Section, Township, Range: S 34 T 10S R 05E
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): concave Slope: 0.0 % / 0.0 °
 Subregion (LRR or MLRA): LRR O Lat.: 91° 57' 22.186" W Long.: 30° 7' 27.588" N Datum: NAD83
 Soil Map Unit Name: MbA:Memphis silt loam, 0 to 1 percent slopes:5% Hydric NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: 6

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover
Sapling or Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover
Shrub Stratum (Plot size: _____)				
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover
Herb Stratum (Plot size: <u>30'</u>)				
1.	<u>Rottboellia cochinchinensis</u>	<u>70</u>	<input checked="" type="checkbox"/> <u>70.0%</u>	<u>FACU</u>
2.	<u>Andropogon gyrans</u>	<u>20</u>	<input checked="" type="checkbox"/> <u>20.0%</u>	<u>FACU</u>
3.	<u>Rubus argutus</u>	<u>10</u>	<input type="checkbox"/> <u>10.0%</u>	<u>FAC</u>
4.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
5.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
6.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
7.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
8.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
9.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
10.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
11.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
12.	_____	<u>0</u>	<input type="checkbox"/> <u>0.0%</u>	_____
50% of Total Cover: <u>50</u>		20% of Total Cover: <u>20</u>	<u>100</u>	= Total Cover
Woody Vine Stratum (Plot size: _____)				
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 10 x 3 = 30

FACU species 90 x 4 = 360

UPL species 0 x 5 = 0

Column Total s: 100 (A) 390 (B)

Prevalence Index = B/A = 3.900

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is > 50%
 - 3 - Prevalence Index is ≤ 3.0¹
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **6**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)		%	Tvpe ¹	Loc ²		
0-20	10YR	3/2	90	10YR	5/8	5	C	M	Clay Loam	
				10YR	7/3	5	C	M	Clay Loam	

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Muck Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)
- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: AC Commercial Site City/County: Broussard Sampling Date: 25-Feb-21
 Applicant/Owner: One Acadiana State: LA Sampling Point: 7
 Investigator(s): Ryne Menard Section, Township, Range: S 3 T 11S R 05E
 Landform (hillslope, terrace, etc.): Undulating Local relief (concave, convex, none): concave Slope: 1.0 % / 0.6 °
 Subregion (LRR or MLRA): LRR O Lat.: 91° 57' 13.418" W Long.: 30° 7' 17.896" N Datum: NAD83
 Soil Map Unit Name: MbA:Memphis silt loam, 0 to 1 percent slopes:5% Hydric NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input checked="" type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>10</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>0</u>		Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: 7

Tree Stratum	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
6. _____	0	<input type="checkbox"/> 0.0%	_____
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover	
Sapling or Sapling/Shrub Stratum (Plot size: _____)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
6. _____	0	<input type="checkbox"/> 0.0%	_____
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover	
Shrub Stratum (Plot size: _____)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
6. _____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover	
Herb Stratum (Plot size: <u>30'</u>)			
1. <u>Juncus effusus</u>	25	<input checked="" type="checkbox"/> 38.5%	OBL
2. <u>Rottboellia cochinchinensis</u>	15	<input checked="" type="checkbox"/> 23.1%	FACU
3. <u>Eleocharis palustris</u>	10	<input type="checkbox"/> 15.4%	OBL
4. <u>Diodia virginiana</u>	10	<input type="checkbox"/> 15.4%	FACW
5. <u>Eleocharis parvula</u>	5	<input type="checkbox"/> 7.7%	OBL
6. _____	0	<input type="checkbox"/> 0.0%	_____
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
11. _____	0	<input type="checkbox"/> 0.0%	_____
12. _____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>32.5</u> 20% of Total Cover: <u>13</u>	<u>65</u>	= Total Cover	
Woody Vine Stratum (Plot size: _____)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 40 x 1 = 40

FACW species 10 x 2 = 20

FAC species 0 x 3 = 0

FACU species 15 x 4 = 60

UPL species 0 x 5 = 0

Column Total s: 65 (A) 120 (B)

Prevalence Index = B/A = 1.846

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is > 50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²		
0-20	10YR	4/1	90	10YR	3/6	10	C	M	Clay Loam	

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U) <input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U) <input type="checkbox"/> Muck Presence (A8) (LRR U) <input type="checkbox"/> 1 cm Muck (A9) (LRR P, T) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR O, S) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U) <input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Marl (F10) (LRR U) <input type="checkbox"/> Depleted Ochric (F11) (MLRA 151) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T) <input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U) <input type="checkbox"/> Delta Ochric (F17) (MLRA 151) <input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR O) <input type="checkbox"/> 2 cm Muck (A10) (LRR S) <input type="checkbox"/> Reduced Vertic (F18) (outside MLRA 150A,B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: AC Commercial Site City/County: Broussard Sampling Date: 25-Feb-21
 Applicant/Owner: One Acadiana State: LA Sampling Point: 8
 Investigator(s): Ryne Menard Section, Township, Range: S 3 T 11S R 05E
 Landform (hillslope, terrace, etc.): Undulating Local relief (concave, convex, none): convex Slope: 1.0 % / 0.6 °
 Subregion (LRR or MLRA): LRR O Lat.: 91° 57' 13.904" W Long.: 30° 7' 18.697" N Datum: NAD83
 Soil Map Unit Name: MbA:Memphis silt loam, 0 to 1 percent slopes:5% Hydric NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____ _____	
Remarks: _____ _____ _____	

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: 8

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover
Sapling or Sapling/Shrub Stratum (Plot size: _____)				
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover
Shrub Stratum (Plot size: _____)				
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover
Herb Stratum (Plot size: <u>30'</u>)				
1.	<u>Rottboellia cochinchinensis</u>	50	<input checked="" type="checkbox"/> 66.7%	FACU
2.	<u>Andropogon gyrans</u>	20	<input checked="" type="checkbox"/> 26.7%	FACU
3.	<u>Solidago altissima</u>	5	<input type="checkbox"/> 6.7%	FACU
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
6.	_____	0	<input type="checkbox"/> 0.0%	_____
7.	_____	0	<input type="checkbox"/> 0.0%	_____
8.	_____	0	<input type="checkbox"/> 0.0%	_____
9.	_____	0	<input type="checkbox"/> 0.0%	_____
10.	_____	0	<input type="checkbox"/> 0.0%	_____
11.	_____	0	<input type="checkbox"/> 0.0%	_____
12.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>37.5</u>		20% of Total Cover: <u>15</u>	<u>75</u>	= Total Cover
Woody Vine Stratum (Plot size: _____)				
1.	_____	0	<input type="checkbox"/> 0.0%	_____
2.	_____	0	<input type="checkbox"/> 0.0%	_____
3.	_____	0	<input type="checkbox"/> 0.0%	_____
4.	_____	0	<input type="checkbox"/> 0.0%	_____
5.	_____	0	<input type="checkbox"/> 0.0%	_____
50% of Total Cover: <u>0</u>		20% of Total Cover: <u>0</u>	<u>0</u>	= Total Cover

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 0 x 1 = 0

FACW species 0 x 2 = 0

FAC species 0 x 3 = 0

FACU species 75 x 4 = 300

UPL species 0 x 5 = 0

Column Total s: 75 (A) 300 (B)

Prevalence Index = B/A = 4.000

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is > 50%

3 - Prevalence Index is ≤ 3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **8**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)	%	Tvpe ¹	Loc ²			
0-9	10YR	4/2	100						Clay Loam	
9-20	10YR	2/1	90	10YR	3/6	10	C	M	Clay Loam	

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U) <input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U) <input type="checkbox"/> Muck Presence (A8) (LRR U) <input type="checkbox"/> 1 cm Muck (A9) (LRR P, T) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR O, S) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U) <input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Marl (F10) (LRR U) <input type="checkbox"/> Depleted Ochric (F11) (MLRA 151) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T) <input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U) <input type="checkbox"/> Delta Ochric (F17) (MLRA 151) <input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 1 cm Muck (A9) (LRR O) <input type="checkbox"/> 2 cm Muck (A10) (LRR S) <input type="checkbox"/> Reduced Vertic (F18) (outside MLRA 150A,B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	---	--

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

APPENDIX B – PHOTOGRAPHS



Photo 1: Sample Plot 1



Photo 2: Sample Plot 1, facing south



Photo 3: Sample Plot 1, facing west



Photo 4: Sample Plot 2



Photo 5: Sample Plot 2, facing east



Photo 6: Sample Plot 2, facing south



Photo 7: Sample Plot 3



Photo 8: Sample Plot 3, facing north



Photo 9: Sample Plot 3, facing east



Photo 10: Sample Plot 4



Photo 11: Sample Plot 4, facing south



Photo 12: Sample Plot 4, facing west



Photo 13: Sample Plot 5



Photo 14: Sample Plot 5, facing north



Photo 15: Sample Plot 5, facing east



Photo 16: Sample Plot 6



Photo 17: Sample Plot 6, facing east



Photo 18: Sample Plot 6, facing east



Photo 19: Sample Plot 7



Photo 20: Sample Plot 7, facing east



Photo 21: Sample Plot 7, facing south



Photo 22: Sample Plot 8

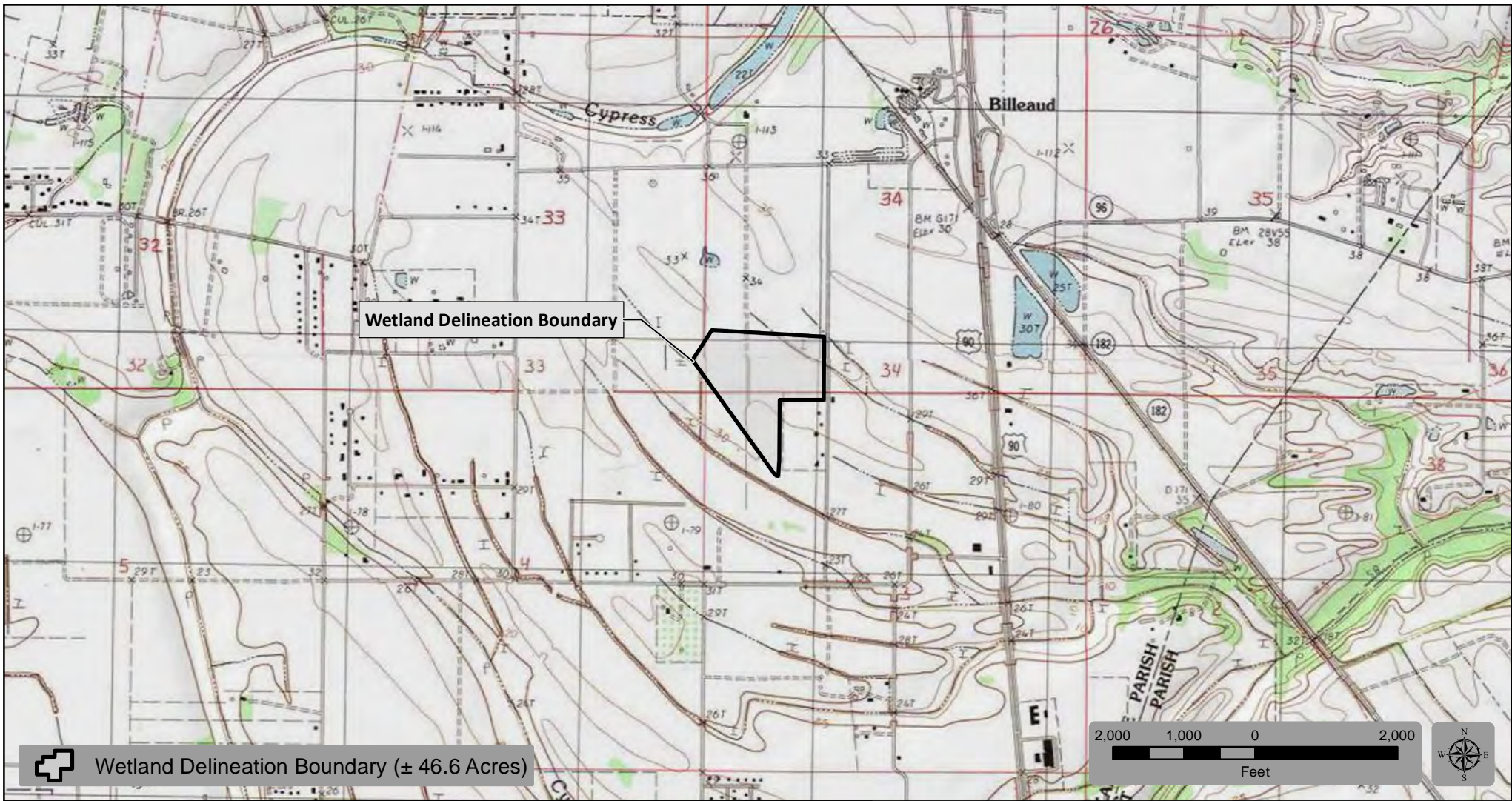


Photo 23: Sample Plot 8, facing north



Photo 24: Sample Plot 8, facing east

APPENDIX C – MAPS



Wetland Delineation Boundary



Wetland Delineation Boundary (± 46.6 Acres)



Project Location



Project Location ±1.6 Miles Southeasterly from Broussard, Louisiana

One Acadiana

AC Commercial Site Wetland Delineation SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E

Lafayette Parish, Louisiana

FOR PERMITTING ONLY

Rev: (date:initial)	Created by:	KFM
	Date:	03/12/2021
	Job #	21013

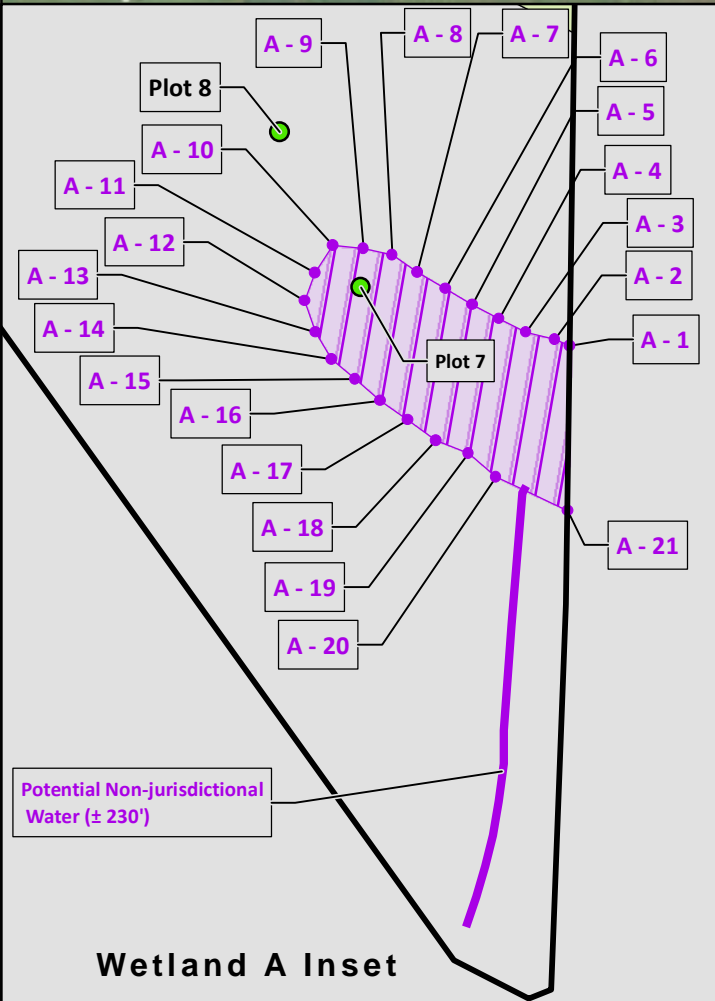
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Vicinity Map

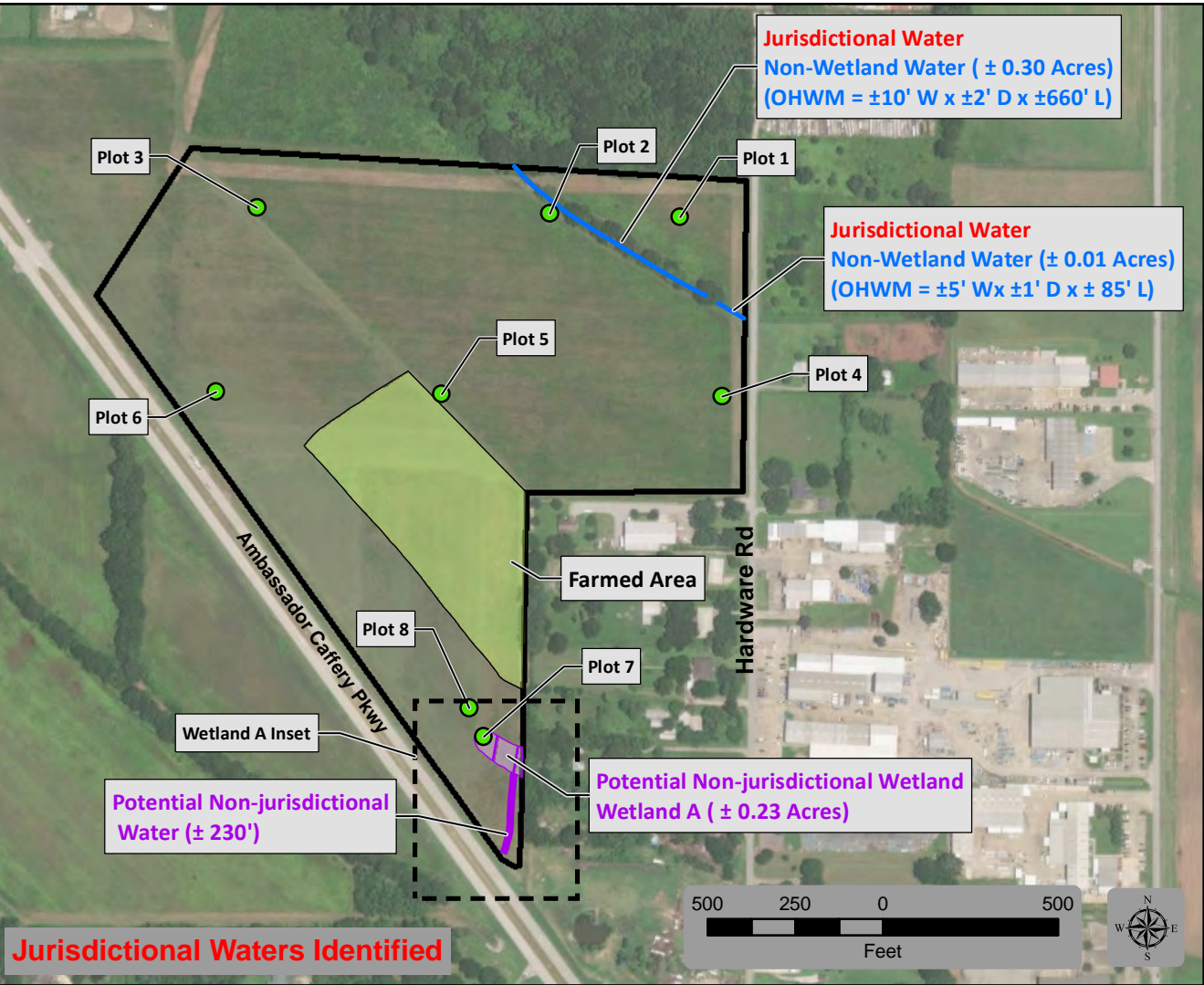
Data Sources

1. Background Data: Service Layer Credits: Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Wetland Delineation Plot Summary		
Plot No	Longitude	Latitude
1	91° 57' 7.148" W	30° 7' 32.599" N
2	91° 57' 11.378" W	30° 7' 32.663" N
3	91° 57' 20.885" W	30° 7' 32.791" N
4	91° 57' 5.745" W	30° 7' 27.527" N
5	91° 57' 14.862" W	30° 7' 27.552" N
6	91° 57' 22.186" W	30° 7' 27.588" N
7	91° 57' 13.418" W	30° 7' 17.896" N
8	91° 57' 13.904" W	30° 7' 18.697" N



Potential Non-jurisdictional Water (± 230')



Jurisdictional Water
Non-Wetland Water (± 0.30 Acres)
(OHWM = ±10' W x ±2' D x ±660' L)

Jurisdictional Water
Non-Wetland Water (± 0.01 Acres)
(OHWM = ±5' Wx ±1' D x ± 85' L)

Potential Non-jurisdictional Water (± 230')

Potential Non-jurisdictional Wetland A (± 0.23 Acres)

Jurisdictional Waters Identified

- Wetland Delineation Plot
- Non-Wetland Water
- Potential Non-jurisdictional Waters
- Farmed Area
- Potential Non-jurisdictional Wetland
- Wetland Delineation Boundary (± 46.6 Acres)

One Acadiana

AC Commercial Site Wetland Delineation
SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E

Lafayette Parish, Louisiana

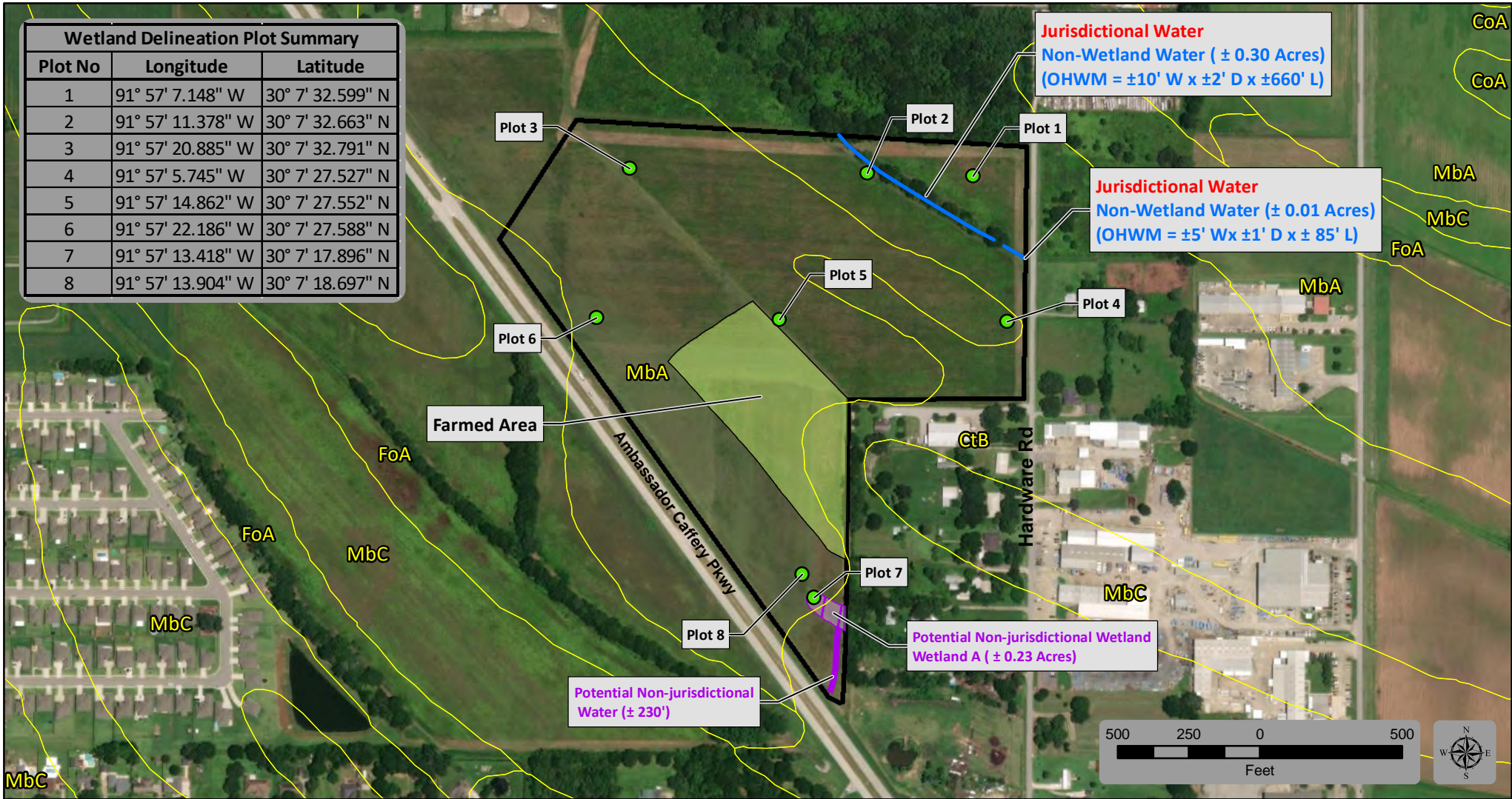
FOR PERMITTING ONLY	Rev: (date:initial)	Created by:	KFM
	Date:		03/12/2021
	Job #		21013
Wetland Flagging Key Map			

This document is not to be used for construction, bidding, recordation, conveyance or sales.

Data Sources

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Wetland Delineation Plot Summary		
Plot No	Longitude	Latitude
1	91° 57' 7.148" W	30° 7' 32.599" N
2	91° 57' 11.378" W	30° 7' 32.663" N
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5	91° 57' 14.862" W	30° 7' 27.552" N
6	91° 57' 22.186" W	30° 7' 27.588" N
7	91° 57' 13.418" W	30° 7' 17.896" N
8	91° 57' 13.904" W	30° 7' 18.697" N



Jurisdictional Waters Identified

Lafayette Parish Soils
Soil Symbol : Soil Name : Hydric Soil %
 CoA:Coteau silt loam, 0 to 1 percent slopes:10
 CtB:Coteau-Frost complex, gently undulating:35
 FoA:Frost silt loam:85
 MbA:Memphis silt loam, 0 to 1 percent slopes:5
 MbC:Memphis silt loam, 1 to 5 percent slopes:0

- Wetland Delineation Plot
- Lafayette Parish Soils
- Potential Non-jurisdictional Waters
- Non-Wetland Water
- Farmed Area
- Potential Non-jurisdictional Wetland
- Wetland Delineation Boundary (± 46.6 Acres)

One Acadiana

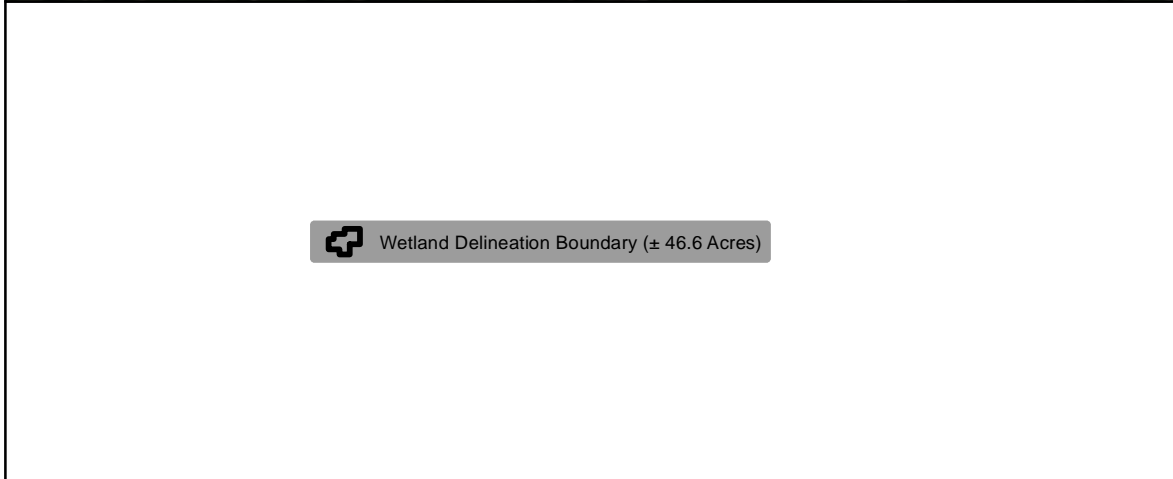
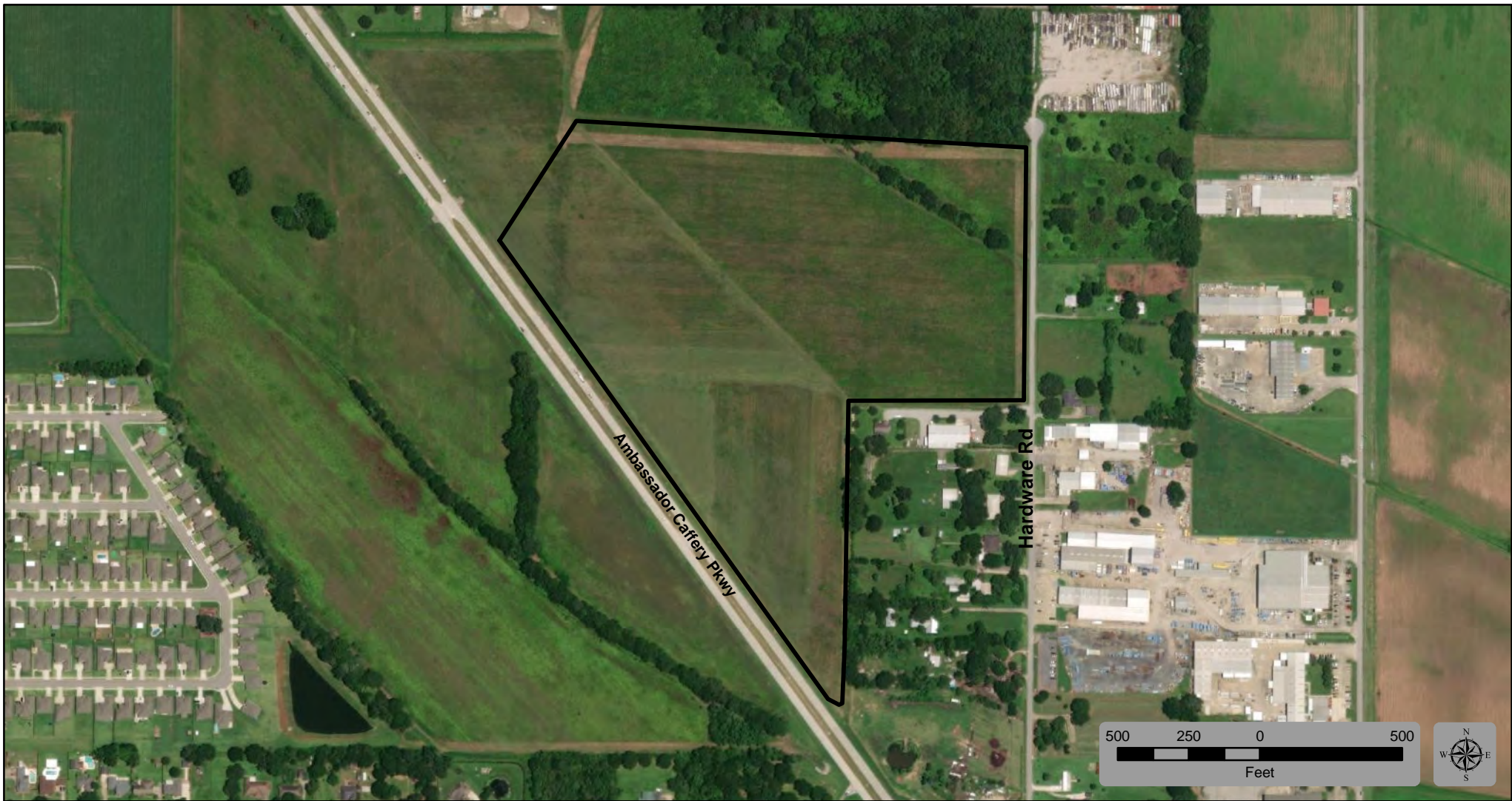
AC Commercial Site Wetland Delineation SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E

Lafayette Parish, Louisiana

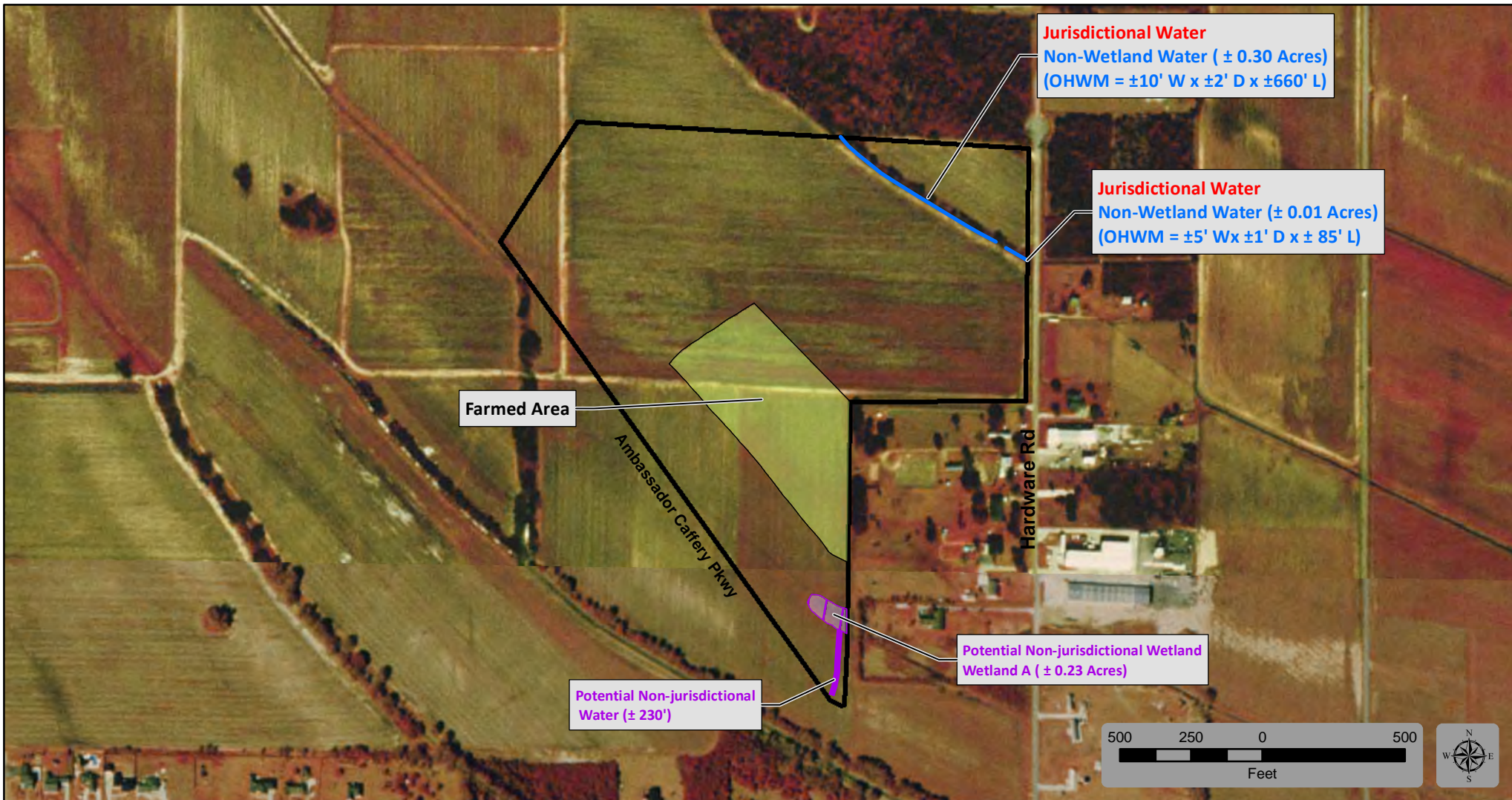
FOR PERMITTING ONLY

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Date:		03/12/2021
Job #		21013
Aerial and Soil Map		






Data Sources
 1. Background Data: Service Layer Credits: Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community (Aerial Date 2019)
 2. Soil Data - Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture.
 Soil Survey Geographic (SSURGO) Database for [Lafayette Parish, Louisiana]. Available online.



One Acadiana			
AC Commercial Site Wetland Delineation			
SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E			
Lafayette Parish, Louisiana			
FOR PERMITTING ONLY		Rev: (date:initial)	Created by: KFM
This document is not to be used for construction, bidding, recordation, conveyance or sales.		Date:	03/12/2021
		Job #	21013
		Aerial Map	
Data Sources			
1. Background Data: Service Layer Credits: Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community (Aerial Date: 2019)			



Jurisdictional Waters Identified

-  Potential Non-jurisdictional Waters
-  Non-Wetland Water
-  Farmed Area
-  Potential Non-jurisdictional Wetland
-  Wetland Delineation Boundary (± 46.6 Acres)

One Acadiana

AC Commercial Site Wetland Delineation SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E

Lafayette Parish, Louisiana

FOR PERMITTING ONLY


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Rev: (date:initial)	Created by:	KFM
Date:		03/12/2021
Job #		21013
1998 Aerial Map		

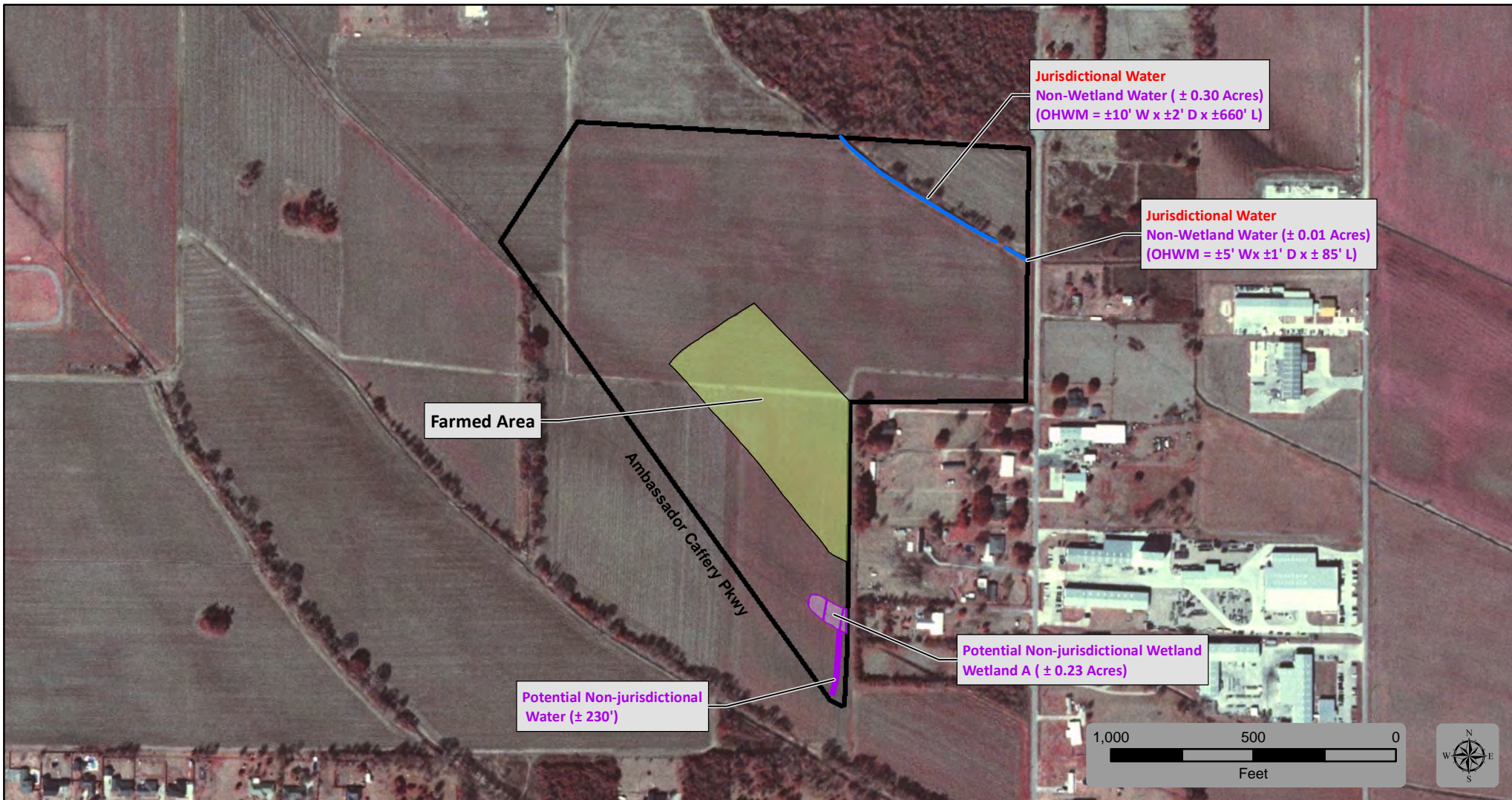
Data Sources

1. Background Data: Aerial Data - Data distributed by "Atlas: The Louisiana Statewide GIS." LSU Department of Geography and Anthropology, Baton Rouge, LA. <http://atlas.lsu.edu>.




 Wetland Delineation Boundary (± 46.6 Acres)

One Acadiana			
AC Commercial Site Wetland Delineation SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E Lafayette Parish, Louisiana			
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		1998 Aerial Map	
Data Sources 1. Background Data: Aerial Data - Data distributed by "Atlas: The Louisiana Statewide GIS." LSU Department of Geography and Anthropology, Baton Rouge, LA. http://atlas.lsu.edu ..			



Jurisdictional Waters Identified

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One Acadiana

AC Commercial Site Wetland Delineation SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E

Lafayette Parish, Louisiana

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	Date:	03/12/2021
	Job #	21013
Topographic Map Map		

Data Sources

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 Wetland Delineation Boundary (± 46.6 Acres)

One Acadiana

**AC Commercial Site Wetland Delineation
SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E**

Lafayette Parish, Louisiana

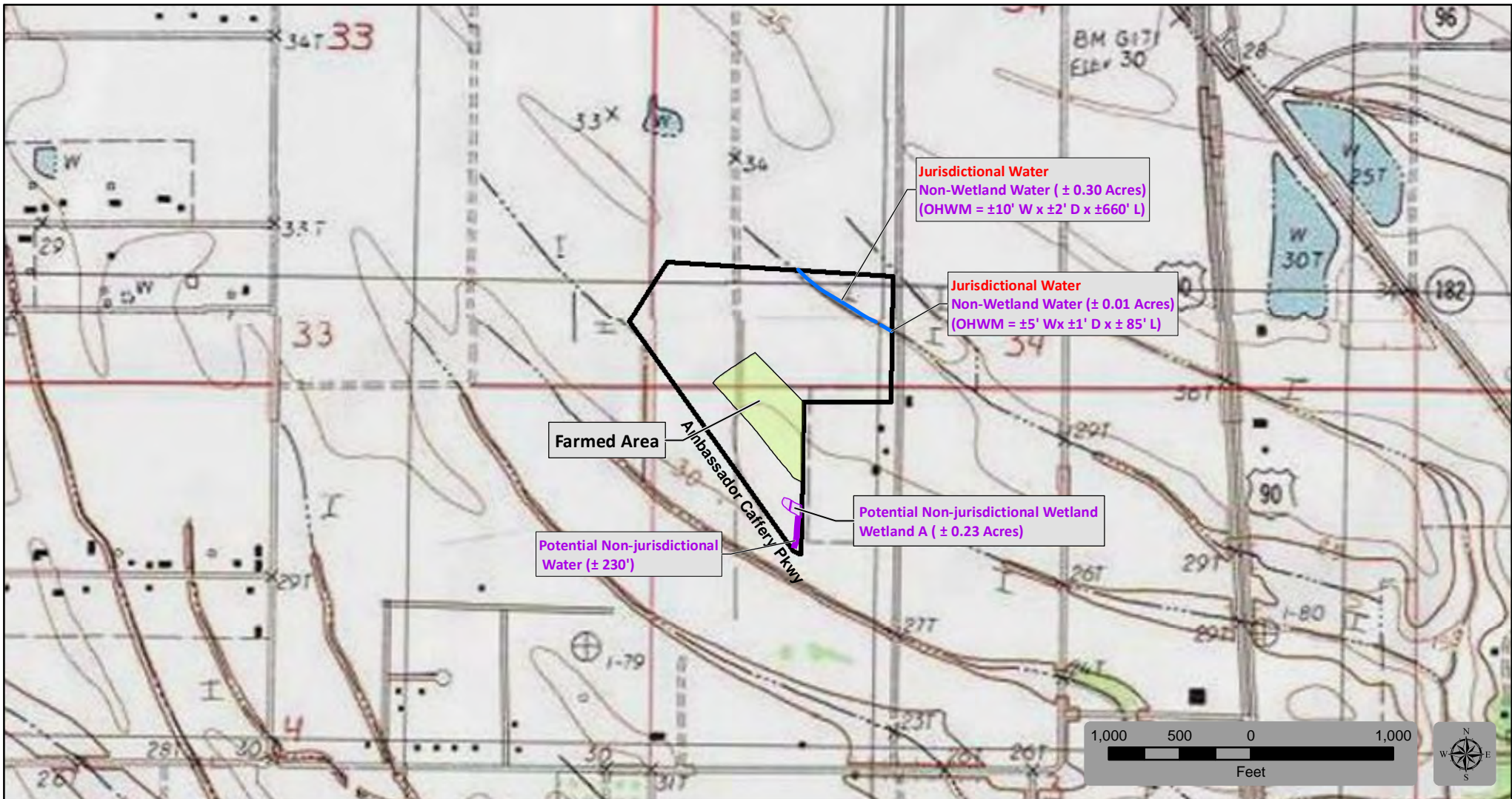
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	Date:	03/12/2021
	Job #	21013
2004 Aerial Map		






Data Sources

1. Background Data: Aerial Data - Data distributed by "Atlas: The Louisiana Statewide GIS." LSU Department of Geography and Anthropology, Baton Rouge, LA. <http://atlas.lsu.edu>.

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Jurisdictional Waters Identified

-  Potential Non-jurisdictional Waters
-  Non-Wetland Water
-  Farmed Area
-  Potential Non-jurisdictional Wetland
-  Wetland Delineation Boundary (± 46.6 Acres)

One Acadiana

AC Commercial Site Wetland Delineation SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E

Lafayette Parish, Louisiana

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	Date:	03/12/2021
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Topographic Map Map		

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 Wetland Delineation Boundary (± 46.6 Acres)

One Acadiana

**AC Commercial Site Wetland Delineation
SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E**

Lafayette Parish, Louisiana

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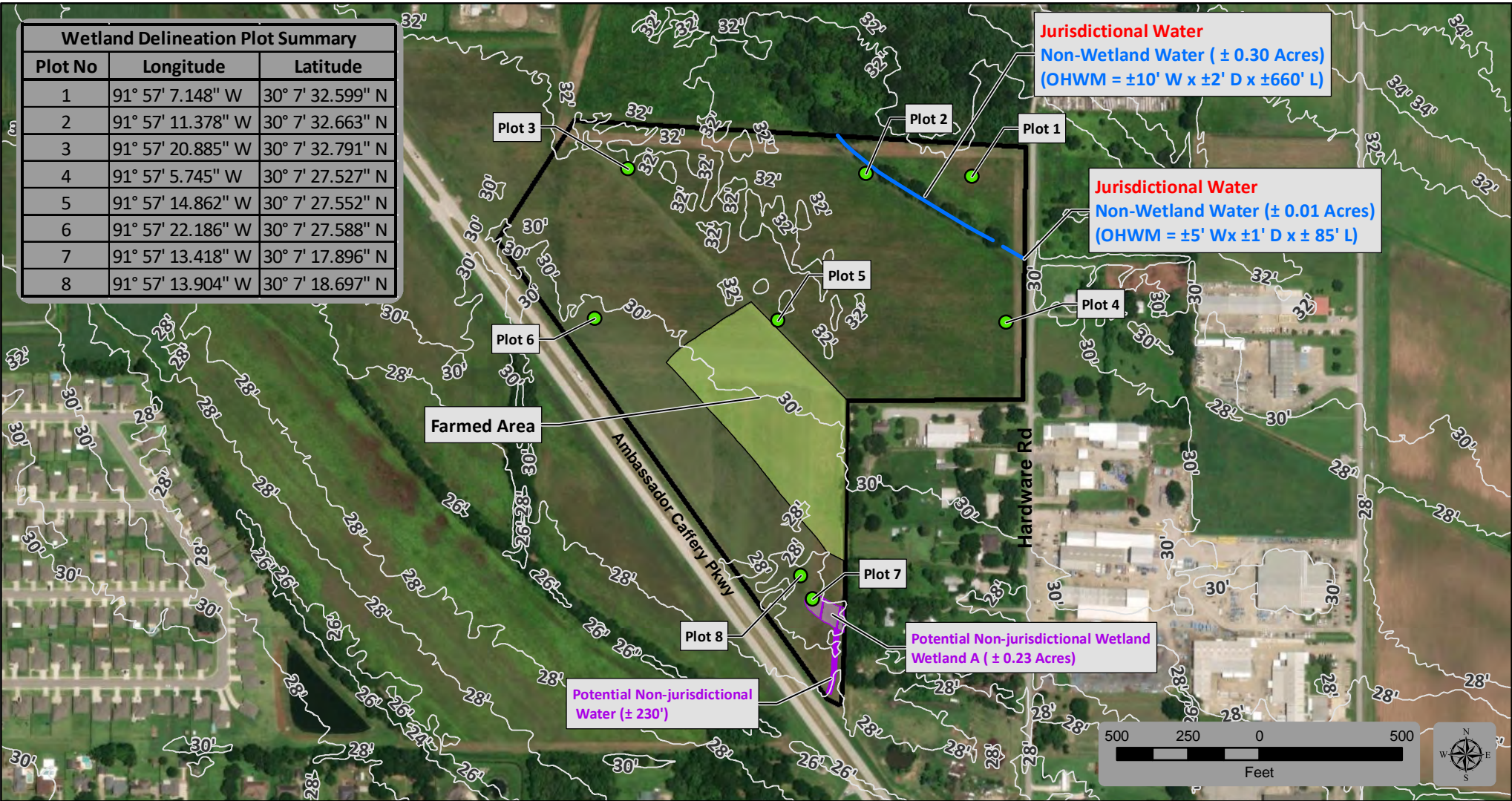
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Topographic Map		

Data Sources

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Wetland Delineation Plot Summary		
Plot No	Longitude	Latitude
1	91° 57' 7.148" W	30° 7' 32.599" N
2	91° 57' 11.378" W	30° 7' 32.663" N
3	91° 57' 20.885" W	30° 7' 32.791" N
4	91° 57' 5.745" W	30° 7' 27.527" N
5	91° 57' 14.862" W	30° 7' 27.552" N
6	91° 57' 22.186" W	30° 7' 27.588" N
7	91° 57' 13.418" W	30° 7' 17.896" N
8	91° 57' 13.904" W	30° 7' 18.697" N



Jurisdictional Waters Identified

- Wetland Delineation Plot
- 2' Elevation LIDAR Contours
- ~ Potential Non-jurisdictional Waters
- ~ Non-Wetland Water
- Farmed Area
- Potential Non-jurisdictional Wetland
- Wetland Delineation Boundary (± 46.6 Acres)

Lafayette Parish Soils

Soil Symbol : Soil Name : Hydric Soil %
 CoA:Coteau silt loam, 0 to 1 percent slopes:10
 CtB:Coteau-Frost complex, gently undulating:35
 FoA:Frost silt loam:85
 MbA:Memphis silt loam, 0 to 1 percent slopes:5
 MbC:Memphis silt loam, 1 to 5 percent slopes:0

One Acadiana

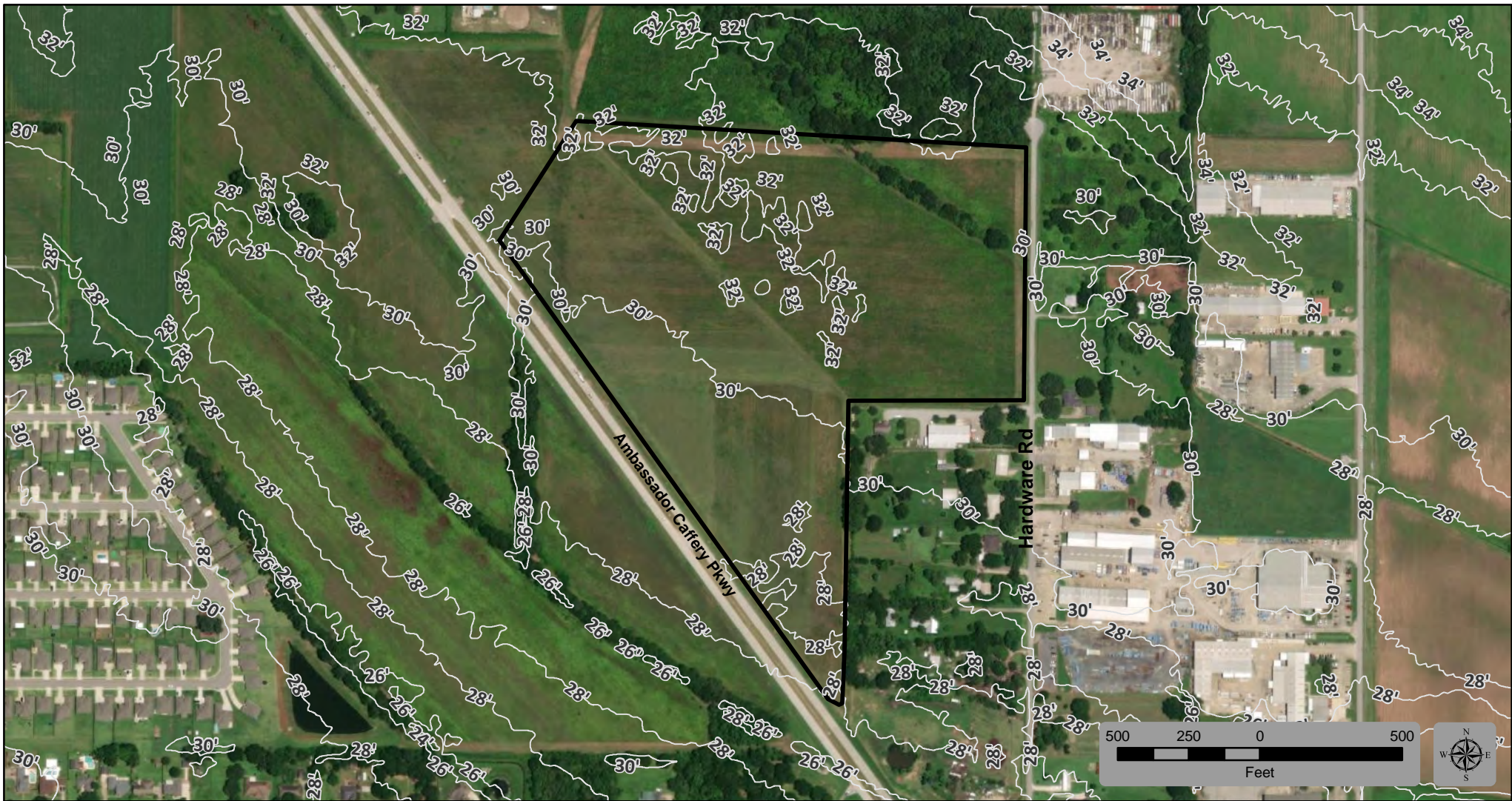
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Lafayette Parish, Louisiana



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	Job #	21013
LIDAR Map		

Data Sources
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 2. Soil Data - Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture.
 Soil Survey Geographic (SSURGO) Database for [Lafayette Parish, Louisiana]. Available online.



Lafayette Parish Soils
Soil Symbol : Soil Name : Hydric Soil %
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 Wetland Delineation Boundary (± 46.6 Acres)
 2' Elevation LIDAR Contours

One Acadiana

**AC Commercial Site Wetland Delineation
 SEC 33, 34 T10S-R05E, & SEC 03 T11S-R05E
 Lafayette Parish, Louisiana**

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		Date:	03/12/2021
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			LIDAR Map

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