

# Exhibit EE. Mouton Site Wetlands Delineation Report





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Mouton Site Wetland Delineation St. Martin Parish, Louisiana

> for One Acadiana

July 30, 2024

11923 Sun Belt Court Baton Rouge, Louisiana 70809 225.293.2460



## Wetland Delineation Report

Mouton Site Wetland Delineation St. Martin Parish, Louisiana

File No. 25992-009-00 July 30, 2024

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1.0 Introduction 1   2.0 Scope of Services 1   3.0 Methods 2   3.1 Literature Review 2   3.2 Wetland Delineation 2   3.2.1 Field Methods 2   3.2.2 Vegetation 3   3.2.3 Hydrology 3   3.2.4 Soils 4   3.3 Wetland Characterization 5   3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Soils 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2.4 Field Investigation 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	EXECUTIVE SUMMARY ES	<b>i-1</b>
2.0 Scope of Services 1   3.0 Methods 2   3.1 Literature Review 2   3.2 Wetland Delineation 2   3.2.1 Field Methods 2   3.2.2 Vegetation 3   3.2.3 Hydrology 3   3.2.4 Soils 4   3.3 Wetland Characterization 5   3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Soils 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.1.2 NWI Map 6   4.2.1 Wetland Delineation/Assessment 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	1.0 Introduction	. 1
3.0 Methods 2   3.1 Literature Review 2   3.2 Wetland Delineation 2   3.2.1 Field Methods 2   3.2.2 Vegetation 3   3.2.3 Hydrology 3   3.2.4 Soils 4   3.3 Wetland Characterization 5   3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Soils 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	2.0 Scope of Services	. 1
3.1 Literature Review 2   3.2 Wetland Delineation 2   3.2.1 Field Methods 2   3.2.2 Vegetation 3   3.2.3 Hydrology 3   3.2.4 Soils 4   3.3 Wetland Characterization 5   3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Literature Review 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2 Field Investigation 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8	3.0 Methods	. 2
3.2 Wetland Delineation 2   3.2.1 Field Methods 2   3.2.2 Vegetation 3   3.2.3 Hydrology 3   3.2.4 Soils 4   3.3 Wetland Characterization 5   3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Soils 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2.7 Field Investigation 7   4.2.8 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	3.1 Literature Review	2
3.2.1Field Methods23.2.2Vegetation33.2.3Hydrology33.2.4Soils43.3Wetland Characterization53.3.1Ordinary High-Water Mark Identification64.0Results64.1Literature Review64.1.1Soils64.1.2NWI Map64.2.2Soil and Hydrology74.2.1Wetland Delineation/Assessment74.2.2Soil and Hydrology75.0Summary and Conclusions85.1Wetlands and Waters of the United States86.0Limitations8	3.2 Wetland Delineation	2
3.2.2 Vegetation 3   3.2.3 Hydrology 3   3.2.4 Soils 4   3.3 Wetland Characterization 5   3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Literature Review 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2.2 Field Investigation 7   4.2.1 Wetland Delineation/Assessment 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	3.2.1 Field Methods	2
3.2.3Hydrology33.2.4Soils43.3Wetland Characterization53.3.1Ordinary High-Water Mark Identification64.0Results64.1Literature Review64.1.1Soils64.1.2NWI Map64.2Field Investigation74.2.1Wetland Delineation/Assessment74.2.2Soil and Hydrology74.2.3General Vegetation75.0Summary and Conclusions85.1Wetlands and Waters of the United States86.0Limitations8	3.2.2 Vegetation	3
3.2.4 Soils 4   3.3 Wetland Characterization 5   3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Literature Review 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2 Field Investigation 7   4.2.1 Wetland Delineation/Assessment 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	3.2.3 Hydrology	3
3.3 Wetland Characterization 5   3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Literature Review 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2 Field Investigation 7   4.2.1 Wetland Delineation/Assessment 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	3.2.4 Soils	4
3.3.1 Ordinary High-Water Mark Identification 6   4.0 Results 6   4.1 Literature Review 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2 Field Investigation 7   4.2.1 Wetland Delineation/Assessment 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	3.3 Wetland Characterization	5
4.0 Results 6   4.1 Literature Review 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2 Field Investigation 7   4.2.1 Wetland Delineation/Assessment 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	3.3.1 Ordinary High-Water Mark Identification	6
4.1 Literature Review 6   4.1.1 Soils 6   4.1.2 NWI Map 6   4.2 Field Investigation 7   4.2.1 Wetland Delineation/Assessment 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	4.0 Results	. 6
4.1.1Soils64.1.2NWI Map64.2Field Investigation74.2.1Wetland Delineation/Assessment74.2.2Soil and Hydrology74.2.3General Vegetation75.0Summary and Conclusions85.1Wetlands and Waters of the United States86.0Limitations8	4.1 Literature Review	6
4.1.2NWI Map64.2Field Investigation74.2.1Wetland Delineation/Assessment74.2.2Soil and Hydrology74.2.3General Vegetation75.0Summary and Conclusions85.1Wetlands and Waters of the United States86.0Limitations8	4.1.1 Soils	6
4.2 Field Investigation 7   4.2.1 Wetland Delineation/Assessment 7   4.2.2 Soil and Hydrology 7   4.2.3 General Vegetation 7   5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	4.1.2 NWI Map	6
4.2.1 Wetland Delineation/Assessment	4.2 Field Investigation	7
4.2.2Soil and Hydrology74.2.3General Vegetation75.0Summary and Conclusions85.1Wetlands and Waters of the United States86.0Limitations8	4.2.1 Wetland Delineation/Assessment	7
4.2.3 General Vegetation	4.2.2 Soil and Hydrology	7
5.0 Summary and Conclusions 8   5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	4.2.3 General Vegetation	7
5.1 Wetlands and Waters of the United States 8   6.0 Limitations 8	5.0 Summary and Conclusions	. 8
6.0 Limitations	5.1 Wetlands and Waters of the United States	8
	6.0 Limitations	. 8
6.1 Information Provided by Others	6.1 Information Provided by Others	9
7.0 References	7.0 References	. 9

#### **List of Figures**

Figure 1. Vicinity Map Figure 2. Site Topographic Map Figure 3. NRCS Soils Map Figure 4. National Wetlands Inventory Map Figure 5. Lidar Map Figure 6. Wetland Delineation Map

Appendices Appendix A. Site Photographs Appendix B. Wetland Determination Data Forms





## **EXECUTIVE SUMMARY**

GeoEngineers conducted a wetland delineation on the proposed Mouton Property project site in St. Martin Parish, Louisiana. The Site is currently a fallow pasture with a barnlike structure located on the northern half of the property. GeoEngineers concludes that 1.82 acres of the total 46-acre project site consists of Palustrine emergent wetlands and an intermittent stream totaling 0.65 acres.

In GeoEngineers professional opinion, the one identified depressional Palustrine emergent wetland did not seem to be connected to any Waters of the United States (WOUS) outside the property boundaries, making it isolated. This is primarily because the adjacent properties on the North side that have been developed and now have a higher elevation restricting drainage.

This delineation was prepared using current applicable guidance and methodology, and it represents the best professional judgement of GeoEngineers, Inc. As a professional opinion only, it does not represent final agency approval of the delineated features, and we recommend submitting this information to the USACE for review and verification to prevent unavoidable impacts to Waters of the United States.



## **1.0** Introduction

This document describes the results of a wetland delineation investigation of the proposed Mouton Property (Site). Based on information provided by One Acadiana, GeoEngineers, Inc. (GeoEngineers) understands that the study is being conducted to support the requirements to meet the Louisiana Economic Development (LED) site certification process. PROJECT LOCATION/GENERAL SETTING

The Site is approximately ±46 acres and is located in St. Martin Parish, Louisiana. Figures 1 and 2 depict the general vicinity of the Site and the Site boundary, respectively. GeoEngineers staff assessed the proposed project site for potential jurisdictional wetlands and will apply for an Approved Jurisdictional Determination (if requested) from the United States Army Corps of Engineers (USACE) upon approval by the landowner.

## 2.0 Scope of Services

GeoEngineers was retained by One Acadiana to conduct a wetland delineation of the Site for the LED site certification process. The scope of services associated with this wetland delineation included:

- Literature Review/Field Preparation: GeoEngineers reviewed appropriate reference materials pertinent to the Site, including United States Fish and Wildlife Service (USFWS); National Wetland Inventory (NWI) maps; United States Geological Survey (USGS) topographic maps; United States Department of Agriculture (USDA) National Resources Conservation Service (NRCS) Web Soil Survey for St. Martin Parish, Louisiana; recent aerial photographs; and other readily available background information.
- 2. Field Delineation/Assessment: GeoEngineers mobilized to the Site to conduct wetland delineation activities within project boundaries on July 15, 2024. Wetland boundaries were determined after consideration of three wetland parameters: (1) vegetation; (2) soils; and (3) hydrology in accordance with the USACE Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coastal Plains Region, Version 2.0, dated November 2010. Soil pits were hand excavated at the project site, as needed and appropriate, to record soil conditions relative to hydric indicators. GeoEngineers assessed the vegetative cover near each soil pit and estimated the relative abundance of hydrophytic species.

Wetland boundaries were delineated in the field. Boundaries and sample data plots were marked in the field using a global positioning system (GPS).

3. **Report Preparation**: GeoEngineers prepared this wetland delineation report in accordance with the appropriate regulatory requirements and guidance, as referenced. The report includes documentation of the upland areas, wetland areas, and intermittent streams, with supporting illustrations, photographs, and reference citations, as applicable. Map excerpts and appropriate appendices are also presented in Appendix A and Appendix B to support GeoEngineers' findings and conclusions.



## 3.0 Methods

#### 3.1 LITERATURE REVIEW

GeoEngineers researched existing information on wetlands, streams, ditches, and other man-made aquatic features documented within the project boundary prior to conducting the site visit. The list below includes publicly available reviewed literature:

- USGS Topographic Map;
- USFWS NWI Maps;
- USDA/NRCS Web Soil Survey for St. Martin Parish Louisiana; and
- Current and historical aerial photographs.

#### 3.2 WETLAND DELINEATION

The wetland delineation and assessment were conducted in accordance with the guidance set forth in the 1987 USACE Wetland Delineation Manual (Environmental Laboratory 1987) and the 2010 Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coastal Plains Region, Version 2.0 (USACE 2010). These manuals follow a three-parameter approach for conducting wetland determinations. This approach documents: (1) the presence of hydrophytic vegetation; (2) hydric soils; and (3) wetland hydrology, all of which are described in further detail below. Except for wetlands with special characteristics, the presence of all three criteria is required for a given area to be classified as a wetland under these two guidance documents.

#### 3.2.1 Field Methods

Prior to visiting the Site, a health and safety briefing was completed, field gear and travel plans were prepared, and a communications protocol for the field crew was established. A GeoEngineers wetlands scientist conducted the field assessment on July 15, 2024.

Based on site observations relative to topography, hydrology, and vegetation, wetland boundaries are estimated for subsequent testing to compare upland and wetland characteristics within the depressional and adjacent areas. Soil pits were hand dug to approximately 16-18 inches below ground surface (bgs). Soil pits were advanced within and outside a given wetland boundary to assess soil conditions in wetland and upland areas. Soils in each pit were evaluated for texture, matrix color, presence, or absence of redoximorphic features or gleying, and depth of saturation. This information was used to determine the presence/absence of hydric soils and to assist in the development of wetland boundaries. Details regarding soils evaluation methodology are described in the "Soils" section below.

Wetland hydrology indicators, including drainage patterns, presence of surface water, depth of groundwater within soil pits, and vegetation community were also noted at sample plots surrounding soil pits (approximate 30-foot radius). Vegetation, soil, and hydrology information collected during the field study are presented on the standard 2010 Regional Supplemental to the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coastal Plains Region, Version 2.0 wetland delineation data forms, which are included in Appendix B.



Wetland boundaries are delineated and mapped in the field. A photographic record of site conditions during our field study is provided in Appendix A, Site Photographs.

#### 3.2.2 Vegetation

The USACE 2010 Regional Supplement: Atlantic and Gulf Coastal Plains Region, Version 2.0, defines hydrophytic vegetation as, "the community that is within areas where inundation or soil saturation is either permanent or of sufficient frequency and duration to exert a controlling influence on the plant species present" (USACE 2010). Hydrophytic plant species can grow, compete, and establish in areas where anaerobic conditions exist due to the presence of surface water and/or groundwater. In 1988, the USACE and USFWS (Reed 1988) developed plant indicator categories that describe the probability of vegetation species to occur in wetlands. Each plant species observed within a given on-site sample plot was categorized according to the USACE 2022 National Wetland Plant List (USACE, 2022). Table 1 provides summarized definitions of the indicator status categories.

TABLE 1. PLANT INDICATOR S	TATUS CATEG	ORIES
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Indicator Status	Indicator Symbol	Description
Obligate Wetland Plants	OBL	Plants that occur in wetlands, under natural conditions, greater than 99 percent of the time.
Facultative Wetland Plants	FACW	Plants that occur in wetlands, under natural conditions, between 67 to 99 percent of the time.
Facultative Plants	FAC	Plants that occur in wetlands, under natural conditions, between 34 to 66 percent of the time.
Facultative Upland Plants	FACU	Plants that occur in wetlands, under natural conditions, between 1 to 33 percent of the time.
Obligate Upland Plants	UPL	Plants that occur in wetlands, under natural conditions, less than 1 percent of the time.
No Indicator	NI	Indicator status has not been identified for the species.
No Occurrence	NO	No known occurrence of the plant in the region.

The prevalence of wetland vegetation is characterized by the dominant species comprising the plant community within a wetland. A dominant species is considered any plant species that represents 20 percent or greater total aerial coverage for each vegetative stratum (tree, shrub, herbaceous or aquatic bed). If more than 50 percent of the dominant plant species in an area were categorized as OBL, FACW, or FAC, the plant community is classified as hydrophytic and, therefore, meets that wetland indicator parameter. On-site wetland vegetation communities, identified by field scientists, were classified according to the Cowardin Classification System (Cowardin, et al. 1979).

#### 3.2.3 Hydrology

Hydrologic patterns that may create wetlands can be influenced by precipitation, stratigraphy, topography, soil permeability, plant cover, and human disturbance. Wetland hydrology encompasses all hydrologic characteristics of areas that are periodically inundated or have soils saturated to the surface at some time during the growing season. Primary and secondary hydrologic indicators used by field biologists to assist in the identification of potential wetlands included the following (USACE 2010):



- High water table or saturated soil within 12 inches of the ground surface for 14 or more consecutive days at a minimum frequency of 5 years out of 10;
- Water marks;
- Sediment and drift deposits;
- Algal mat or crust;
- Iron deposits;
- Surface soil cracks;
- Salt crust;
- Inundation visible on aerial photography;
- Sparsely vegetated concave surface;
- Aquatic invertebrates;
- Water-stained leaves;
- Hydrogen sulfide odor;
- Oxidized rhizospheres along living roots;
- Presence of reduced iron; and
- Stunted or stressed plants.

Secondary indicators include (USACE 2008):

- Drainage patterns;
- Dry-season water table;
- Saturation visible on aerial photography;
- Geomorphic position;
- Shallow aquitard;
- FAC-neutral test; and
- Crayfish burrows.

The growing season for a region is dependent upon climate, precipitation, and topography. Hydrology must be present for at least 14 consecutive days and within 12 inches of the ground surface during the growing season to be considered a wetland.

#### 3.2.4 Soils

Hydric soils are formed under conditions of saturation, flooding, or ponding for a period long enough during the growing season that anaerobic conditions develop in the upper soil strata (0 to 20 inches commonly) (USACE 2010). These anaerobic conditions can result in certain soil characteristics that can be identified in the field while investigating (confirm or deny) the hydric soil wetland parameter. Prolonged anaerobic soil



conditions eventually lead to a chemically reduced state where soil components (iron, manganese, sulfur, and carbon compounds) develop soil colors and other physical characteristics indicative of hydric status. These chemically reduced soil components persist when the soil is either wet or dry. Specific hydric soil characteristics used by GeoEngineers' wetland scientist to identify hydric soils include:

- Reduced iron resulting in a soil color that is known as gley (bluish-gray or greenish-gray);
- Loss of iron resulting in a soil color that is known as redox depletion (gray or reddish gray);
- Loss of iron resulting in concentrated soil patches known as redoximorphic concretions (orange or red);
- Sulfidic odor; or
- High organic matter content (peat or muck) in the upper 32 inches of the soil profile.

GeoEngineers' methods for identifying hydric soils included digging soil pits wherever drainage patterns, ponded areas, or indicators of water presence were observed. Soil pits were hand dug to approximately 16-18 inches bgs (as described previously in Field Methods) along a transect perpendicular to the predicted wetland boundary in a gradient from dry to wet. Soils obtained from each soil pit were observed for color profile, odor, and redoximorphic condition. Hydric soil conditions must be met within 12 inches of the ground surface to consider the soil types hydric.

Soil colors were determined using Munsell® Soil Color Charts (Gretag/Macbeth 2000) and their appropriate Hue: spectral colors (e.g., 10YR), Value: degree of lightness (e.g., 2/), and Chroma: strength or purity of the color (e.g., /1). Soil profiles must have a dominant chroma of 2 or less or the layer with dominant chroma of more than 2 must be less than 6 inches thick to meet any hydric soil indicators. Hydric soil indicators commonly found in wetlands are identified in the technical document — Field Indicators of Hydric Soils in the United States, a Field Guide for Identifying and Delineating Hydric Soils, Version 7.0 (USDA 2010).

#### 3.3 WETLAND CHARACTERIZATION

The areas delineated in this study were characterized according to the Cowardin classification (Cowardin et al. 1979), which categorizes wetlands and deep-water habitats according to five separate systems: Marine, Estuarine, Riverine, Lacustrine, and Palustrine. These systems are then stratified into subsystems based on plant community types and are further stratified into classes and subclasses from substrate material. Each class and subclass are then annotated with specific modifiers for water regimes, water chemistry, soil, and other special modifiers. The USFWS uses this classification system in the development of their NWI maps.

Site features were also identified according to their hydrogeomorphic (HGM) classification to determine their location and function within the watershed. HGM classifications include the following:

- Depressional;
- Riverine;
- Lake-fringe;
- Slope;
- Flats; and



Freshwater tidal.

#### 3.3.1 Ordinary High-Water Mark Identification

The USACE (2018) New Orleans District defines the Ordinary High Water Mark (OHWM) as the line on the shores established by the fluctuations of water and indicated by physical characteristics such as:

- A clear natural line impressed on the bank;
- Shelving;
- Changes in the character of the soil;
- Destruction of terrestrial vegetation;
- The presence of litter and debris; or
- Other appropriate means that consider the characteristics of the surrounding areas.

The USACE (2005) further defines the OHWM as follows:

The term "OHWM" means that line on the shore established by the fluctuations of weather and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

## 4.0 Results

#### 4.1 LITERATURE REVIEW

#### 4.1.1 Soils

The St. Martin Parish, Louisiana NRCS Web Soils Soil Survey (USDA 2024) identified the following soil types potentially within the project ROW (NRCS Soils Map, Figure 3):

- Mp—Memphis-Frost complex, gently undulating.
- Mh—Memphis silt loam, 5 to 8 percent slopes.

#### 4.1.2 NWI Map

The USFWS NWI map (USFWS 2024) identified the following habitat types potentially within the project boundary (National Wetlands Inventory Map, Figure 4). It is important to note that the information below is taken from publicly available databases and then surveyed in the field for accuracy.

■ R4SBC: Riverine Intermittent Streambed Seasonally Flooded.



#### 4.2 FIELD INVESTIGATION

#### 4.2.1 Wetland Delineation/Assessment

The Site primarily consists of approximately a ±46-acre parcel of land currently utilized for agriculture via pasture and hay harvest. Topography varied throughout the project site, making the Site starting from the south rising in elevation to its highest point in the middle, then gradually sloping towards the intermittent stream. Once north of the stream, elevation again rises to its highest point east of the barn, then drastically starts to fall until the north boundary line. GeoEngineers determined that there were approximately 1.82 acres of Depressional Palustrine Emergent Wetland (PEM) located on the property along the northern property boundary caused by development and a railroad restricting drainage. Additionally, an intermittent stream was observed running NW to SE across the middle of the property encompassing approximately 0.65 acres when measured at top of bank. This was mapped out and recorded in Figure 6, Wetland Delineation Site Map.

#### 4.2.2 Soil and Hydrology

GeoEngineers established 6 soil pits (SP 1 through SP 6) within the project site and is illustrated in Figure 6, Wetland Delineation Site Map. Table 2 below provides a summary of soil and hydrology data conditions encountered during the delineation/assessment.

Soil Pit ID	Approximate Depth (inches bgs)	Hue, Value, Chroma	Redox Features	Hue, Value, Chroma	Soil Description	Hydric Soils Present? (Yes / No)	Other
SP-1	0-12	10YR3/2	No	NA	Silty Clay	No	N/A
SP-1	12-16	10YR4/3	No	NA	Silty Clay	No	N/A
SP-2	0-4	10YR 4/2	No	NA	Silty Clay	Yes	N/A
SP-2	4-16	10YR 4/2	C PL	10YR5/8	Clay	Yes	N/A
SP-3	0-16	10YR3/2	No	NA	Silty Clay	No	N/A
SP-4	0-10	10YR3/2	СM	10YR4/3	Silty Clay	No	N/A
SP-4	10-16	10YR3/1	СM	10YR4/2	Silty Clay	No	N/A
SP-5	0-3	10YR3/2	No	NA	Silty Clay	No	N/A
SP-5	3-16	10YR4/3	No	NA	Silty Clay	No	N/A
SP-6	0-10	10YR4/3	No	NA	Silty Clay	No	N/A
SP-6	10-16	10YR4/3	DM	10YR4/6	Silty Clay	No	N/A

#### TABLE 2. SOIL/HYDROLOGY DATA SUMMARY

A photographic record of the soil pit conditions is provided in Appendix A. The wetland determination data forms are provided in Appendix B.

#### 4.2.3 General Vegetation

Vegetation was characterized based on general dominant species observed within approximately 30-foot-diameter sample plot surrounding each soil pit. Dominant vegetation within the project boundary



consisted of Common Bahia Grass (*Paspalum notatum*) and Canada Goldenrod (*Solidago canadensis*). A more detailed species list can be viewed in Appendix B on the Wetland Determination Data Forms.

## 5.0 Summary and Conclusions

#### 5.1 WETLANDS AND WATERS OF THE UNITED STATES

GeoEngineers conducted a wetland delineation on the proposed Mouton Property project site in St. Martin Parish, Louisiana. The Site is comprised entirely of agricultural land used for hay and pasture.

A total of six data points were established within the site. Of the six data points, one exhibited hydric soil, hydrology, and vegetation consistent with USACE or U.S. Environmental Protection Agency (EPA) wetland criteria. GeoEngineers concludes that 1.82 acres of the total ±46-acre project site consists of potential USACE jurisdictional wetlands and 0.65 acres of USACE jurisdictional Waters of the United States. This delineation was prepared using current applicable guidance and methodology, and it represents the best professional judgement of GeoEngineers as a professional opinion only. It does not represent final agency approval of the delineated features, and we recommend submitting this information to the USACE for review and verification to prevent unavoidable impacts to Waters of the United States.

## 6.0 Limitations

GeoEngineers has prepared this wetland delineation report in accordance with the scope and limitations of our proposal. Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted practices for wetland delineation in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

This report has been prepared for the exclusive use by One Acadiana and their authorized agents following the described methods and information available at the time of our services. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. The information contained herein should not be applied for any purpose or project except the one originally contemplated.

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#### 6.1 INFORMATION PROVIDED BY OTHERS

GeoEngineers has relied upon certain data or information provided or compiled by others in the performance of our services. Although we use sources that we reasonably believe to be trustworthy, GeoEngineers cannot warrant or guarantee the accuracy or completeness of information provided or compiled by others.

## 7.0 References

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Figures





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Appendices

Appendix A Site Photographs



SAMPLE PLOT 1: FACING EAST

#### **Site Photographs**

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 1: FACING NORTH

#### **Site Photographs**

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 1: FACING SOUTH

## Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 1: FACING WEST

**Site Photographs** 

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 1: SOIL PROFILE

Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 2: FACING EAST

#### **Site Photographs**

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 2: FACING NORTH

#### **Site Photographs**

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 2: FACING SOUTH

## Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana





SAMPLE PLOT 2: FACING WEST

**Site Photographs** 

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 2: SOIL PROFILE

**Site Photographs** 

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 3: FACING EAST

#### **Site Photographs**

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 3: FACING NORTH

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 3: FACING SOUTH

**Site Photographs** 

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 3: FACING WEST

# **Site Photographs**

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 3: SOIL PROFILE

Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 4: FACING EAST

Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 4: FACING NORTH

Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 4: FACING SOUTH

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 4: FACING WEST

**Site Photographs** 

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 4: SOIL PROFILE

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 5: FACING EAST

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 5: FACING NORTH

Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 5: FACING SOUTH

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 5: FACING WEST

# Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 5: SOIL PROFILE

**Site Photographs** 

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 6: FACING EAST

Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 6: FACING NORTH

# **Site Photographs**

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 6: FACING SOUTH

# Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 6: FACING WEST

Site Photographs

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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SAMPLE PLOT 6: SOIL PROFILE

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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ROADSIDE DITCH SOUTH OF PROJECT SITE; LOOKING EAST

## **Site Photographs**

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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STREAM ; LOOKING EAST

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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STREAM; LOOKING WEST

**Site Photographs** 

Mouton Site Wetland Delineation, St. Martin Parish, Louisiana

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# Appendix B

Wetland Determination Data Forms

#### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: MOUTON SITE	City/County: ST. MARTIN PARISH Sampling Date: 7-15-24
Applicant/Owner: ONE ACADIANA	State: LA Sampling Point: SP-1
Investigator(s): STEVEN DAVID	Section Township Range S 11.T 011S. R 005E
Landform (hillslope, terrace, etc.): GENTLE SLOPED FIELD	Local relief (concave, convex, none): <u>CONVEX</u> Slope (%): <u>3</u>
Subregion (LRR or MLRA): LRRO Lat: 30.1	101664° Long: <u>-91.934727</u> ° Datum: <u>NAD 83</u>
Soil Map Unit Name: Mp—Memphis-Frost complex, gently	undulating NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 No (If no, explain in Remarks.)
Are Vegetation Soil, or Hydrology significantly	y disturbed?Are "Normal Circumstances" present? Yes ✔No
Are Vegetation Soil , or Hydrology naturally p	roblematic? [[] (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       No       ✓         Hydric Soil Present?       Yes       No       ✓         Wetland Hydrology Present?       Yes       No       ✓         Remarks:       FALLOW HAY FIELD       Image: Comparison of the second	Is the Sampled Area within a Wetland? Yes No 🗸
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	) Surface Soil Cracks (B6)
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosp	heres along Living Roots (C3)
Sediment Deposits (B2)	Iced Iron (C4)
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in I	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches	s):
Water Table Present? Yes No 🗸 Depth (inches	s):
Saturation Present? Yes No 🗸 Depth (inches	s): Wetland Hydrology Present? Yes No 🗹
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

### VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: SP-1

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1. NA	<u>% Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				Tatal Number of Deminent
3				Species Across All Strata:(B)
4				Percent of Deminant Species
5				That Are OBL, FACW, or FAC: $0$ (A/B)
6				
		= Total Cov	er	Tetal % Cover of: Multiply by:
50% of total cover:	20% of	total cover:		$\begin{array}{c c} \hline \hline$
Sapling Stratum (Plot size:)				EACW species $0$ $x_2 = 0$
1. <u>NA</u>				FAC species $40$ $x_3 = 120$
2				FACU species $125$ x 4 = $500$
3				UPL species $0$ $x_5 = 0$
4				Column Totals: 165 (A) 620 (B)
5				
b				Prevalence Index = $B/A = 3.75$
E00/ of total any any	2004 -5	- Total COV	ei	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:	20% OT	total cover:		1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
2				3 - Prevalence Index is ≤3.0'
3				Problematic Hydrophytic Vegetation (Explain)
۵ ۵				
5				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6.				Definitions of Five Vegetation Strata:
			 er	
50% of total cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 50				(7.6 cm) or larger in diameter at breast height (DBH).
1.Paspalum notatum	80	Υ	FACU	Sapling – Woody plants, excluding woody vines.
2. Solidago canadensis	15	N	FACU	approximately 20 ft (6 m) or more in height and less
3. Aster tataricus	10	N	FAC	than 3 in. (7.6 cm) DBH.
4. Ambrosia trifida	15	N	FAC	Shrub – Woody plants, excluding woody vines,
5. Coreopsis tinctoria	5	<u>N</u>	FAC	approximately 3 to 20 ft (1 to 6 m) in height.
6. Paspalum urvillei	10	N	FAC	Herb - All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately
8				3 ft (1 m) in height.
9				Woody vine – All woody vines, regardless of height
10				
11	105			
67 F	135	= Total Cov	er	
50% of total cover: 07.5	20% of	total cover:	21	
Woody Vine Stratum (Plot size: <u>JU</u> )	20	V	EACU	
	30	<u> </u>	FACU	
2				
3				
4				
	30	- Total Cav		Hydrophytic
50% of total cover 15	20% of	total cover:	6	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	20,000	total oover.	<u> </u>	1
	•• /-			

#### SOIL

Profile Desc	ription: (Describe	to the depth	n needed to docur	nent the i	ndicator	or confirm	n the absence of	findicators.)
Depth	Matrix		Redo	x Features	5 Ture - 1	12	T	Dementer
(inches)			Color (moist)	%	Iype'	LOC <sup>2</sup>	exture	Remarks
0-12	10YR3/2						<u>sc</u>	
12-16	10YR4/3	100					SC	
17				- <u> </u>	0		21	L. Dana Linin a. M. Makris
Hydric Soil	oncentration, D=Dep Indicators: (Applic	able to all I	Reduced Matrix, Ma	S=IVIasked	Sand Gr	ains.	Location: P	L=Pore Lining, M=Matrix.
Histosol				Now Surfa	ce (S8) (L	RRSTI		
	pipedon (A2)		Thin Dark Su	Inface (S9)	(LRR S.	T, U)		ck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Muck	y Mineral (	(F1) (LRR	(O)	Reduced	Vertic (F18) (outside MLRA 150A, B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piedmon	t Floodplain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)	-			us Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR P	', T, U) BB B T III	Redox Dark	Surface (F	6) (EZ)			(153B) apt Metorial (TE2)
	esence (A8) (LRR U	кк Р, 1, 0) I)	Redox Depre	essions (F	(F7) 3)		Very Sha	allow Dark Surface (TE12)
	ick (A9) (LRR P, T)	· ,	Marl (F10) (L	.RR U)	- /		Other (E)	xplain in Remarks)
Depleted	d Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
L Thick Da	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) <b>(</b>	LRR O, P,	T) <sup>3</sup> Indicate	ors of hydrophytic vegetation and
	rairie Redox (A16) <b>(I</b>	VILRA 150A)	Umbric Surfa	ice (F13) (	LRR P, T	, U)	wetlar	nd hydrology must be present,
Sandy N	lucky Mineral (S1) (1 Neved Matrix (S4)	LKK (), S)		(F17) (IVIL rtic (E18) (	.KA 151) MIRA 15	0A 150B)	uniess	s disturbed or problematic.
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)	
Stripped	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (	F20) (MLR	A 149A, 153C, 1	53D)
Dark Su	rface (S7) (LRR P, S	s, T, U)					1	
Restrictive	Layer (if observed):							
Dopth (in							Hydria Sail Br	
Bomorke:	cnes).						Hydric Soli Pi	
Remarks:								

#### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: MOUTON SITE	City/County: ST. MARTIN PARISH Sampling Date: 7-15-24
Applicant/Owner: ONE ACADIANA	State: LA Sampling Point: SP-2
Investigator(s); STEVEN DAVID	Section, Township, Range: S 11,T 011S, R 005E
Landform (hillslope, terrace, etc.): DEPRESSION	Local relief (concave, convex, none): <u>CONCAVE</u> Slope (%): <2
Subregion (LRR or MLRA): LRRO Lat: 30.1	01760° Long: -91.937880° Datum: NAD 83
Soil Map Unit Name: Mp—Memphis-Frost complex, gently	undulating NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 No 🔄 (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No ✔
Are Vegetation Soil or Hydrology naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes ✓       No         Hydric Soil Present?       Yes ✓       No         Wetland Hydrology Present?       Yes ✓       No         Remarks:       DEDRESSIONAL DEM ON PROPERTY LINE DUE TO	Is the Sampled Area within a Wetland? Yes No
PROPERTY LINE RESTRICTING DRAINAGE	J DEVELOPMENT AND RAILROAD ON NORTHERN
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1)	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	ced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in I	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No 🖌 Depth (inches	s):
Saturation Present? Yes No 🗸 Depth (inches	s): Wetland Hydrology Present? Yes 🖌 No 📃
Describe Recorded Data (stream gauge, monitoring well, aerial phot	los, previous inspections), if available:
Pemarke:	
L	

### VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: SP-2

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. <u>NA</u>				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4	·			Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6	·			Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:	20% of	f total cover		$\frac{1}{OBL \text{ species}} \frac{140}{x  1 = 140}$
Sapling Stratum (Plot size:)	5	V		FACW species $0$ $x_2 = 0$
1. <u>Salix nigra</u>	- 5			EAC species $75$ $x_3 = 225$
	5	<u>Y</u>	FAC	FACU species $0$ $x = 0$
3				$\frac{1}{100} \text{ species } \frac{1}{0} \text{ y } 5 = \frac{1}{0}$
4				Column Totals: $215$ (A) $365$ (B)
5				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
6	·			Prevalence Index = B/A = <u>1.69</u>
	10	= Total Cov	er 2	Hydrophytic Vegetation Indicators:
50% of total cover: 5	20% of	total cover	۷	1 - Rapid Test for Hydrophytic Vegetation
<u>Shrub Stratum</u> (Plot size:)				∠ 2 - Dominance Test is >50%
1. <u>NA</u>				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				
4				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
		= Total Cov	er	Tree – Woody plants, evoluting woody vines
50% of total cover:	20% of	f total cover		approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: <u>50</u> )				(7.6 cm) or larger in diameter at breast height (DBH).
1.Iva annua	70	Υ	FAC	Sanling – Woody plants, excluding woody vines
2. Alternanthera philoxeroides	55	Y	OBL	approximately 20 ft (6 m) or more in height and less
3. Persicaria hydropiperoides	30	N	OBL	than 3 in. (7.6 cm) DBH.
4 Juncus effusus	10	N	OBL	Shrub - Woody plants, excluding woody vines.
5 Eleocharis obtusa	40	N	OBL	approximately 3 to 20 ft (1 to 6 m) in height.
6				Herb – All berbaceous (non-woody) plants, including
7	·			herbaceous vines, regardless of size, and woody
·	·			plants, except woody vines, less than approximately
0				$3 \pi (1 \text{ m})$ in neight.
5				Woody vine - All woody vines, regardless of height.
10				
<sup>     </sup>	205			
102	203	= Total Cov	er 44	
50% of total cover: 102.	<u>5</u> 20% of	f total cover	41	
Woody Vine Stratum (Plot size: 50)				
1. <u>NA</u>				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:	20% of	f total cover		Present? Yes V No
Remarks: (If observed, list morphological adaptations belo	ow).			

#### SOIL

Profile Desc	ription: (Describe	e to the dep	th needed to docun	nent the	indicator	or confirm	n the absence o	f indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)		Color (moist)	%	Type'	_Loc <sup>2</sup>	Texture	Remarks
0-4	10YR4/2	100					<u>SC</u>	
0-16	10YR4/2	90	10YR5/8	10	С	PL	CH	
					·			
		_				·		
						·		
				·	·	·		
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all	LRRs, unless other	wise not	ed.)		Indicators fo	or Problematic Hydric Soils":
	(A1)		Polyvalue Be	low Surfa	ice (S8) (I	LRR S, T, I		ick (A9) (LRR O)
	stic (A3)			v Mineral	(ERR 3,	1, U) 7 O)		d Vertic (F18) (outside MLRA 150A.B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (	(F2)	(0)		t Floodplain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Mat	trix (F3)	· ·		Anomalo	ous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR	P, T, U)	Redox Dark S	Surface (I	-6)			A 153B)
5 cm Mu	icky Mineral (A7) <b>(L</b>	.RR P, T, U)	Depleted Dar	k Surface	e (F7)		Red Par	ent Material (TF2)
L Muck Pr	resence (A8) (LRR	U)		ssions (F	8)			allow Dark Surface (TF12)
	d Below Dark Surfa	ce (A11)		. <b>кк 0)</b> aric (E11)	(MIRA 1	51)		xplain in Remarks)
Thick Da	ark Surface (A12)		Iron-Mangane	ese Mass	es (F12)	(LRR O, P,	, T) <sup>3</sup> Indicat	tors of hydrophytic vegetation and
Coast P	rairie Redox (A16) (	MLRA 150/	A) 🔲 Umbric Surfa	ce (F13)	(LRR P, 1	r, U)	wetla	nd hydrology must be present,
Sandy N	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) <b>(MI</b>	LRA 151)		unles	s disturbed or problematic.
Sandy G	Bleyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 13	50A, 150B)	)	
Sandy R	(edox (S5) Matrix (S6)			eright Loa	SOIIS (F19) my Soils (	(IVILKA 14 (E20) (MI 6	49A) 20 1/00 1530 1	153D)
Dark Su	rface (S7) (LRR P.	S. T. U)		ingni Loa	ing oolis i	(1 20) <b>(INIE</b> 1	(A 145A, 155C, 1	1550)
Restrictive	Layer (if observed	):						
Туре:								
Depth (in	ches):						Hydric Soil P	Present? Yes 🖌 No
Remarks:								

#### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: MOUTON SITE	City/County: ST. MARTIN PARISH Sampling Date: 7-15-24
Applicant/Owner: ONE ACADIANA	State: LA Sampling Point: SP-3
Investigator(s): STEVEN DAVID	Section Township Range: S 11.T 011S. R 005E
Landform (hillslope, terrace, etc.): GENTLE SLOPED FIELD	Local relief (concave, convex, none): <u>CONVEX</u> Slope (%): <u>5</u>
Subregion (LRR or MLRA): LRRO Lat: _30.	100542° Long: -91.935518° Datum: NAD 83
Soil Map Unit Name: Mp—Memphis-Frost complex, gently	undulating NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly	y disturbed?Are "Normal Circumstances" present? Yes 🖌 No
Are Vegetation Soil , or Hydrology naturally p	oblematic? [(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       No       ✓         Hydric Soil Present?       Yes       No       ✓         Wetland Hydrology Present?       Yes       No       ✓         Remarks:       FALLOW HAY FIELD       FIELD       Image: Comparison of the second	Is the Sampled Area within a Wetland? Yes No ✓
HYDROLOGY	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	5) (LRR U)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosp	heres along Living Roots (C3)
Sediment Deposits (B2)	ced Iron (C4)
Drift Deposits (B3)	ction in Tilled Soils (C6)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
Iron Deposits (B5)	Remarks)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No 🗸 Depth (inches	3):
Water Table Present? Yes No 🗸 Depth (inches	3):
Saturation Present? Yes No V Depth (inches	s): Wetland Hydrology Present? Yes No 🗸
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	

### VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: SP-3

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1. NA	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
6				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover:		$OBL \text{ species } 0$ $x_1 = 0$
Sapling Stratum (Plot size:)				FACW species $15$ x 2 = $30$
1. <u>NA</u>				FAC species $35$ x 3 = 105
2				FACU species $160 \times 4 = 640$
3				UPL species $0$ $x_5 = 0$
4 5				Column Totals: 210 (A) 775 (B)
6				Prevalence Index = $B/A = 3.69$
		= Total Cov	er	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	f total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				2 - Dominance Test is >50%
1. <u>NA</u>				3 - Prevalence Index is ≤3.0 <sup>1</sup>
2			<u> </u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3				
4				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
		= Total Cov	er	Tree – Woody plants, excluding woody vines,
50% of total cover:	20% of	f total cover:		approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 50 )	25	N	EACU	
Solidago considencia	<u>20</u>			Sapling – Woody plants, excluding woody vines,
	15	<u>Y</u>		than 3 in. (7.6 cm) DBH.
3 Akonopus rissiloilus	20			
	20		FACU	approximately 3 to 20 ft (1 to 6 m) in height.
	5			
				herbaceous vines, regardless of size, and woody
/·				plants, except woody vines, less than approximately
o			·	$3 \pi$ (1 m) in height.
10				Woody vine - All woody vines, regardless of height.
11				
	155	= Total Cov	er	
50% of total cover: 77.5	20% of	f total cover	31	
Woody Vine Stratum (Plot size: 50				
1. Rubus trivialis	25	Y	FACU	
2. Lygodium japonicum	30	Y	FAC	
3				
4				
5				Hydrophytic
27.5	55	= Total Cov	er	Vegetation Present? Yes No
50% of total cover: 27.5	20% of	total cover:		
Remarks: (If observed, list morphological adaptations belo	W).			

#### SOIL

Profile Desc	ription: (Describe	to the depth	needed to docur	ment the i	ndicator	or confirm	the absence of i	ndicators.)
Depth	Matrix		Redo	x Feature	s	<u>_</u>		_
(inches)	Color (moist)	<u>%</u> _	Color (moist)	%	Type'	Loc <sup>2</sup>		Remarks
<u>0-16</u>	10YR3/2	100					<u></u>	
<sup>1</sup> Type: C=Co	ncentration, D=Dep	letion, RM=R	educed Matrix, M	S=Maskec	Sand Gr	ains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all Li	RRs, unless othe	rwise not	ed.)		Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) <b>(L</b>	.RR S, T, U	l) 🔲 1 cm Muck	(A9) <b>(LRR O)</b>
Histic Ep	ipedon (A2)		Thin Dark Su	urface (S9)	(LRR S,	T, U)	2 cm Muck	(A10) (LRR S)
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) <b>(LRF</b>	t O)	Reduced V	/ertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piedmont F	Floodplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)				Bright Loamy Soils (F20)
	Bodies (A6) (LRR P	', T, U)	Redox Dark	Surface (F	·6)			53B)
	cky Mineral (A7) (LI	<b>R P, Τ, U</b> )	Depleted Da	rk Surface	(F7) 0)		Red Paren	t Material (TF2)
		9			6)		Other (Evo	Jain in Remarks)
	Relow Dark Surfac	e (A11)		hric (E11)	(MIRA 1	51)		
Thick Da	rk Surface (A12)	0 (/ (11)	Iron-Mangan	ese Mass	es (F12) (	LRR O. P.	T) <sup>3</sup> Indicator	s of hydrophytic vegetation and
Coast Pr	airie Redox (A16) (I	WLRA 150A)	Umbric Surfa	ace (F13) (	LRR P. T	(U)	wetland	hydrology must be present.
Sandy M	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unless o	disturbed or problematic.
Sandy G	leyed Matrix (S4)		Reduced Ver	rtic (F18) <b>(</b>	MLRA 15	0A, 150B)		
Sandy R	edox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14	9A)	
	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (	F20) <b>(MLR</b>	A 149A, 153C, 153	3D)
Dark Sur	face (S7) (LRR P, S	s, t, u)					1	
Restrictive L	ayer (if observed):							
Type:							Hydria Soil Bra	
Depth (Inc	:nes):						Hydric Soll Pre	sent? res No
Remarks:								

#### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: MOUTON SITE	City/County: ST. MARTIN PARISH Sampling Date: 7-15-24
Applicant/Owner: ONE ACADIANA	State: LA Sampling Point: SP-4
	Section Townshin Range S 11.T 011S. R 005E
Landform (hillslope, terrace, etc.): GENTLE SLOPED FIELD	Local relief (concave, convex, none): <u>CONVEX</u> Slope (%): <u>5</u>
Subregion (LRR or MLRA): LRRO Lat: 30.1	100024° Long: <u>-91.937363</u> ° Datum: <u>NAD 83</u>
Soil Map Unit Name: Mp—Memphis-Frost complex, gently	undulating NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 No (If no, explain in Remarks.)
Are Vegetation Soil, or Hydrology significantl	y disturbed?Are "Normal Circumstances" present? Yes ✔ No
Are Vegetation Soil , or Hydrology naturally p	roblematic?(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       No       ✓         Hydric Soil Present?       Yes       No       ✓         Wetland Hydrology Present?       Yes       No       ✓         Remarks:       SLOPED PASTURE ADJACENT OT STREAM	Is the Sampled Area within a Wetland? Yes No 🗸
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosp	heres along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	ced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	e (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No 🖌 Depth (inches	s):
Water Table Present? Yes No 🗸 Depth (inches	s):
Saturation Present? Yes No 🗸 Depth (inche	s): Wetland Hydrology Present? Yes No 🗹
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	

### VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: SP-4

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
	·			That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	·			Species Across All Strata: <u>2</u> (B)
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: 0 (A/B)
6	·			Prevalence Index worksheet
		= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover	:	$\frac{1}{1} \frac{1}{1} \frac{1}$
<u>Sapling Stratum</u> (Plot size:)				EACM species $0$ $x_2 = 0$
1. <u>NA</u>				$\frac{1}{10000000000000000000000000000000000$
2				FACT species $\frac{115}{15}$ x 4 = 500
3				FACO species $\frac{113}{2}$ $x = \frac{000}{2}$
4				$\frac{1}{2} OPL species = \frac{1}{2} OPL species $
5				Column Totals: $\underline{120}$ (A) $\underline{510}$ (B)
6				Prevalence Index = $B/A = 4.29$
		= Total Cov	/er	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of	total cover	:	1 - Rapid Test for Hydrophytic Vegetation
<u>Shrub Stratum</u> (Plot size:)				2 - Dominance Test is >50%
1. NA				$3 - Prevalence Index is \leq 3.0^{1}$
2				Problematic Hydronhytic Vegetation <sup>1</sup> (Explain)
3				
4.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
5.				be present, unless disturbed or problematic.
6				Definitions of Five Vegetation Strata:
		= Total Cov	/er	
50% of total cover:		total cover		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 50	20 /0 01			(7.6 cm) or larger in diameter at breast height (DBH).
1 Paspalum notatum	100	Y	FACU	
2 Solidado canadensis	5	N	FACIL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2 Paspalum urvillei	5	N	FAC	than 3 in. (7.6 cm) DBH.
	<u> </u>		170	Chrysh Maady plants, systering woods vince
4	·			approximately 3 to 20 ft (1 to 6 m) in height.
5	·			
6				Herb – All herbaceous (non-woody) plants, including
7	·			plants, except woody vines, less than approximately
8	·			3 ft (1 m) in height.
9	·			Woody vine – All woody vines, regardless of height.
10	·			
11				
	110	= Total Cov	/er	
50% of total cover: 55	20% of	total cover	6.6	
<u>Woody Vine Stratum</u> (Plot size: <u>50</u> )				
1. <u>Rubus trivialis</u>	10	Y	FACU	
2				
3	·			
4				
5				Hydrophytic
	10	= Total Cov	/er	Vegetation
50% of total cover: 5	20% of	total cover	2.5	Present? Yes No V
Remarks: (If observed, list morphological adaptations belo	ow).			1

### SOIL

Profile Desc	ription: (Describe	e to the dep	th needed to docun	nent the	indicator	or confirm	m the absence of in	dicators.)
Depth	Matrix		Redox	x Feature	es			
(inches)	Color (moist)		<u>Color (moist)</u>		Type'			Remarks
0-10	10YR3/2	95	101 R4/3	5	<u> </u>	M	<u> </u>	
10-16	10YR3/1	90	10YR4/2	10	С	Μ	<u>SC</u>	
							·	
1							·	
Type: C=Co	oncentration, D=De	pletion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	Location: PL=	Pore Lining, M=Matrix.
	(Ad)			wise nu	.eu.)	вре т		
	(AT) binedon (A2)		Thin Dark Su	rface (S9	ace (36) (1 a) (1 RR S	T II)		(A3) (LRR C)
Black Hi	stic (A3)		Loamy Mucky	/ Mineral	(F1) (LRF	τ, ο, το)	Reduced Ve	ertic (F18) (outside MLRA 150A, B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix	(F2)	,	Piedmont Fl	loodplain Soils (F19) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Mat	rix (F3)			Anomalous	Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P, T, U)	Redox Dark S	Surface (	F6)			53B)
	icky Mineral (A7) (L	.RR P, T, U)	Depleted Dar	k Surfaci	e (F7)		Red Parent	Material (TF2)
	esence (A8) (LRR ) ick (A9) (LRR P T)	0)	Marl (F10) (I	RR II)	-0)			ain in Remarks)
Depleted	Below Dark Surfa	ce (A11)		nric (F11)	(MLRA 1	51)		
L Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	ses (F12) (	LRR O, P	, T) <sup>3</sup> Indicators	of hydrophytic vegetation and
Coast Pi	airie Redox (A16) (	MLRA 150/	A) Umbric Surfa	ce (F13)	(LRR P, 1	", U)	wetland I	hydrology must be present,
Sandy M	lucky Mineral (S1) (	(LRR O, S)	Delta Ochric	(F17) <b>(</b> M tia (⊑19)	LRA 151)	04 4500	unless di	isturbed or problematic.
Sandy G	edox (S5)		Piedmont Flo	uc (Fio) odnlain S	(INLKA 1: Soils (E19)	MIRA 1	// 49A)	
Stripped	Matrix (S6)		Anomalous B	right Loa	imy Soils (	F20) (MLI	RA 149A, 153C, 153	D)
Dark Su	face (S7) (LRR P,	S, T, U)		-				
Restrictive I	ayer (if observed	):						
Туре:								
Depth (in	ches):						Hydric Soil Pres	ent? Yes No <b>V</b>
Remarks:								

#### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: MOUTON SITE	City/County: ST. MARTIN PARISH Sampling Date: 7-15-24							
Applicant/Owner: ONE ACADIANA	State: LA Sampling Point: SP-5							
Investigator(s): STEVEN DAVID	Section Townshin Range S 11.T 011S. R 005E							
Landform (hillslope, terrace, etc.): GENTLE SLOPED FIELD	Local relief (concave, convex, none): <u>CONVEX</u> Slope (%): <u>5</u>							
Subregion (LRR or MLRA): LRRO Lat: 30.0	099426° Long: -91.937553° Datum: NAD 83							
Soil Map Unit Name: Mp—Memphis-Frost complex, gently	undulating NWI classification: NA							
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 No (If no, explain in Remarks.)							
Are Vegetation Soil, or Hydrology significantly	y disturbed?Are "Normal Circumstances" present? Yes 🖌 No							
Are Vegetation Soil or Hydrology naturally p	roblematic? (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       No       ✓         Hydric Soil Present?       Yes       No       ✓         Wetland Hydrology Present?       Yes       No       ✓         Remarks:       ODEED DAGTUDE       Ves       No       ✓	Is the Sampled Area within a Wetland? Yes No 🗸							
SLOPED PASTURE								
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	) Surface Soil Cracks (B6)							
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)							
High Water Table (A2) Marl Deposits (B1	5) (LRR U) Drainage Patterns (B10)							
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)							
Water Marks (B1) Oxidized Rhizosp	heres along Living Roots (C3) Dry-Season Water Table (C2)							
Sediment Deposits (B2) Presence of Redu	ced Iron (C4) Crayfish Burrows (C8)							
Drift Deposits (B3)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)							
Algal Mat or Crust (B4) Thin Muck Surface	e (C7) Geomorphic Position (D2)							
Iron Deposits (B5) Other (Explain in I	Remarks) Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)							
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)							
Field Observations:								
Surface Water Present? Yes No Depth (inches	s):							
Water Table Present? Yes No ✓ Depth (inches	s):							
Saturation Present? Yes No 🗸 Depth (inches	s): Wetland Hydrology Present? Yes No ✓							
Describe Recorded Data (stream gauge, monitoring well, aerial photo	tos, previous inspections), if available:							
Remarks:								

### VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: SP-5

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: 1. NA	)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	
2.						
3					Total Number of Dominant       Species Across All Strata:   (B)	
4					Percent of Dominant Species	
5					That Are OBL, FACW, or FAC: 25 (A/B)	
6					Prevalence Index worksheet:	
			= Total Cov	er	Total % Cover of: Multiply by:	
5	50% of total cover:	20% of	total cover:	·	$\begin{array}{c} \hline \hline \\ OBL \text{ species} & 0 \\ \hline \\ x_1 = 0 \\ \hline \end{array}$	
Sapling Stratum (Plot size:	)				EACW species $25$ $x_2 = 50$	
1. <u>NA</u>					EAC species $40$ $x_3 = 120$	
2					FACU species $115$ x 4 = $500$	
3					UPL species $0$ $x_5 = 0$	
4					Column Totals: 180 (A) 670 (B)	
5						
		= Total Cover		/er	Hydrophytic Vegetation Indicators:	
5	50% of total cover:	20% of	total cover:	:	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:	)				2 - Dominance Test is >50%	
1. NA					$3 - $ Prevalence Index is $\leq 3.0^{1}$	
2					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3						
4					<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
5					be present, unless disturbed or problematic.	
6					Definitions of Five Vegetation Strata:	
		= Total Cover		/er	Tree – Woody plants, evoluting woody vines	
5	50% of total cover:	20% of total cover:		:	approximately 20 ft (6 m) or more in height and 3 in.	
Herb Stratum (Plot size: 50	)				(7.6 cm) or larger in diameter at breast height (DBH).	
1.Paspalum notatum		40	Y	FACU	Sapling – Woody plants, excluding woody vines,	
2. Solidago canadensis		60	Y	FACU	approximately 20 ft (6 m) or more in height and less	
3. Paspalum urvillei		10	N	FAC		
4. Ambrosia trifida		20	N	FAC	Shrub – Woody plants, excluding woody vines,	
5. Juncus patens		10	<u>N</u>	FACW	approximately 3 to 20 ft (1 to 6 m) in height.	
6. Axonopus fissifolius		15	<u>N</u>	FACW	Herb – All herbaceous (non-woody) plants, including	
7					herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately	
8					3 ft (1 m) in height.	
9					Woody vine – All woody vines, regardless of height.	
10					······································	
11		155				
	77 F	100	= Total Cov	ver		
5	50% of total cover: 11.5	20% of	total cover:	31		
Woody Vine Stratum (Plot size: 3	)	15	V			
1. Rubus trivialis		10	Ť V	FACU		
		10	<u> </u>	FAC		
3						
4						
<sup>5.</sup>		25			Hydrophytic	
	50% of total cover: 12.5	20% = Total Cover 20% of total cover 5		<u>5</u>	Present? Yes No	
Remarks: (If observed, list morphological adaptations below)						
, <u> </u>		,				

#### SOIL

Depth (inches)       Matrix       Redox Features         0-3       10YR3/2       100       SC         3-16       10YR4/3       100       SC         3-16       10YR4/3       100       SC	Profile Desc	ription: (Describe	e to the depth	needed to docum	nent the indic	ator or confirm	n the absence of	indicators.)
(inches)       Color (moist)       %       Type'       Loc'       Texture       Remarks         0-3       10YR3/2       100       SC       SC       SC       SC         3-16       10YR4/3       100       SC       SC       SC       SC	Depth	Matrix		Redox	Features			
U-3       10YR4/2       100       SC         3-16       10YR4/3       100       SC         3-10       10YR4/3       100       SC         3-10       10YR4/3       100       100         3-10       10Itators       10Itators       10Itators         3-10       10Itators       10Itators       10Itators       10Itators         4-10       10Itators       10Itators       10Itators	(inches)	Color (moist)		Color (moist)	<u>    %                                </u>	ype'_Loc∠	Texture	Remarks
3-16       10YR4/3       100       SC	0-3	10YR3/2	100				<u>SC</u>	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR S, T, U)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)         Stratified Layers (A5)       Depleted Dark Surface (F6)         Muck Presence (A8) (LRR P, T, U)       Redox Depressions (F8)         Muck (A9) (LRR P, T)       Marl (F10) (LRR U)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)         Thick Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T)	3-16	10YR4/3	100				SC	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) (LRR O)         Stratified Layers (A5)       Depleted Matrix (F3)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F7)         Muck (A9) (LRR P, T, U)       Depleted Dark Surface (F7)         Muck (A9) (LRR P, T)       Depleted Ochric (F11) (MLRA 151)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       2 cm Muck (A10) (LRR S)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Reduced Vertic (F18) (outside MLRA 150A,B)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Organic Bodies (A8) (LRR P, T, U)       Redox Depressions (F8)       (MLRA 153B)         Muck (A9) (LRR P, T, U)       Redox Depressions (F8)       Marl (F10) (LRR U)         Mard (F10) (LRR U)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151) <sup>3</sup> Indicators of hydrophytic vegetation and								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (outside MLRA 150A,B)         Hydrogen Sulfide (A4)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Stratified Layers (A5)       Depleted Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A6) (LRR P, T, U)       Redox Depressions (F8)       (Muck Presence (A8) (LRR P, T, U)         Muck (A9) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck (A9) (LRR P, T, U)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Hydrogen Sulfide (A4)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         S traified Layers (A5)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Muck (A9) (LRR P, T, U)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 0, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       2 cm Muck (A10) (LRR S)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Muck Presence (A8) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         I cm Muck (A9) (LRR P, T)       Depleted Ochric (F11) (MLRA 151) <sup>3</sup> Indicators of hydrophytic vegetation and								
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       2 cm Muck (A10) (LRR S)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Muck Presence (A8) (LRR P, T, U)       Redox Depressions (F8)       Wery Shallow Dark Surface (TF12)         Muck (A9) (LRR P, T)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils":         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (outside MLRA 150A,B)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Muck Presence (A8) (LRR P, T, U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151) <sup>3</sup> Indicators of hydrophytic vegetation and	<sup>1</sup> Type: C=Co	oncentration, D=De	pletion, RM=R	educed Matrix, MS	S=Masked Sar	nd Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histosol (A1)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (outside MLRA 150A,B)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Muck Presence (A8) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151) <sup>3</sup> Indicators of hydrophytic vegetation and	Hydric Soil I	Indicators: (Applie	cable to all LF	RRs, unless other	wise noted.)		Indicators fo	r Problematic Hydric Soils":
Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR S, T, U)       2 cm Muck (A10) (LRR S)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (outside MLRA 150A,B)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151) <sup>3</sup> Indicators of hydrophytic vegetation and	Histosol	(A1)		Polyvalue Be	low Surface (8	S8) (LRR S, T, I	U)1 cm Muo	ck (A9) (LRR O)
Black Histic (AS)       Loamy Mucky Mineral (F1) (LRR O)       Reduced Vertic (F18) (outside MLRA 150A,B)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Stratified Layers (A5)       Depleted Matrix (F3)       Anomalous Bright Loamy Soils (F20)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151) <sup>3</sup> Indicators of hydrophytic vegetation and		oipedon (A2)		Thin Dark Su	rface (S9) <b>(LF</b> Mineral (F4)	RR S, T, U)		ck (A10) (LRR S)
Induction of the second sec		STIC (A3) In Sulfide (A4)			/ Mineral (F1) d Matrix (F2)	(LRR O)		t Eloodoloin Soils (E19) (LEB D S T)
Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Redox Depressions (F8)         Muck Presence (A8) (LRR P, T)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151) <sup>3</sup> Indicators of hydrophytic vegetation and		1 Javers (A5)			riv (F3)			us Bright Loamy Soils (F19) (EKK F, S, T)
Image: Solution of the sector of the sect	Organic	Bodies (A6) (LRR I	P. T. U)	Redox Dark S	Surface (F6)			153B)
Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Indicators of hydrophytic vegetation and	5 cm Mu	icky Mineral (A7) (L	RR P, T, U)	Depleted Dar	k Surface (F7	)		ent Material (TF2)
Image:	Muck Pr	esence (A8) (LRR I	U)	Redox Depre	ssions (F8)		Very Sha	llow Dark Surface (TF12)
Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)         Thick Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T)       Indicators of hydrophytic vegetation and	1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (L	RR U)		Other (E)	xplain in Remarks)
L Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and	Depleted	d Below Dark Surfac	ce (A11)	Depleted Och	nric (F11) <b>(ML</b>	RA 151)		
	L Thick Da	ark Surface (A12)		Iron-Mangane	ese Masses (F	12) <b>(LRR O, P</b> ,	, T) <sup>3</sup> Indicate	ors of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present,		rairie Redox (A16) (	(MLRA 150A)	Umbric Surfa	ce (F13) <b>(LRF</b>	R P, T, U)	wetlar	nd hydrology must be present,
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ocnric (F17) (WLRA 151) Unless disturbed or problematic.	Sandy IV	iucky Mineral (S1) ( Neved Matrix (S4)	(LRR 0, S)	Beduced Ver	(F17) (IVILKA 6a (E18) /MLE	101) 20.4500,4500	uniess	s disturbed or problematic.
Sandy Redox (S5)	Sandy R	ledox (S5)		Piedmont Flo	odnlain Soils i	(F19) (MI RA 14	/ 49A)	
Stripped Matrix (S6)		Matrix (S6)		Anomalous B	right Loamv S	Soils (F20) (MLF	RA 149A. 153C. 1	53D)
Dark Surface (S7) (LRR P, S, T, U)	Dark Su	rface (S7) (LRR P,	S, T, U)				, ,	,
Restrictive Layer (if observed):	Restrictive I	Layer (if observed)	):					
Type:	Туре:							
Depth (inches): No 🗸	Depth (ind	ches):					Hydric Soil Pr	resent? Yes No 🗸
Remarks:	Remarks:						1	
## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: MOUTON SITE	City/County: ST. MARTIN PARISH Sampling Date: 7-15-24
Applicant/Owner: ONE ACADIANA	State: LA Sampling Point: SP-6
Investigator(s): STEVEN DAVID	Section Townshin Range S 11.T 011S. R 005E
Landform (hillslope, terrace, etc.): GENTLE SLOPED FIELD	Local relief (concave, convex, none): <u>CONVEX</u> Slope (%): <u>5</u>
Subregion (LRR or MLRA): LRRO Lat: 30.0	<u>095764°</u> Long: <u>-91.937371°</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Mp—Memphis-Frost complex, gently	undulating NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🖌 No (If no, explain in Remarks.)
Are Vegetation Soil, or Hydrology significantly	y disturbed?Are "Normal Circumstances" present? Yes ✔No
Are Vegetation Soil , or Hydrology naturally p	roblematic?(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       No         Hydric Soil Present?       Yes       ✓         Wetland Hydrology Present?       Yes       No         Remarks:       SLOPED PASTURE	Is the Sampled Area within a Wetland? Yes No 🗸
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)     Decises Determs (B10)
Saturation (A3)	Odor (C1)
Water Marks (B1)	heres along Living Roots (C3)
Sediment Deposits (B2)	iced Iron (C4) Cravfish Burrows (C8)
Drift Deposits (B3)	ction in Tilled Soils (C6)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in I	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches	s):
Water Table Present? Yes No Ver Depth (inches	s):
Saturation Present? Yes No ✓ Depth (inches	s): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

## VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: SP-6

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
0				That Are OBL, FACW, or FAC: 0 (A/B)
b				Prevalence Index worksheet:
			er	Total % Cover of:Multiply by:
Su% or total cover:	20% of	total cover:		OBL species _5 x 1 = _5
A NA				FACW species $0$ $x_2 = 0$
				FAC species $20$ x 3 = $60$
2				FACU species <u>110</u> x 4 = <u>452</u>
3				UPL species $0 \times 5 = 0$
5				Column Totals: <u>135</u> (A) <u>517</u> (B)
6				2 82
0		– Total Cov		Prevalence Index = B/A = <u>3.02</u>
50% oftatal acuar:	2004 -	total cover		Hydrophytic Vegetation Indicators:
Shub Stratum (Plot size:	20% OI	total cover.		1 - Rapid Test for Hydrophytic Vegetation
1 NA				2 - Dominance Test is >50%
2				G - Prevalence Index is ≤3.0°
3				Problematic Hydrophytic Vegetation (Explain)
4				1
5				Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
6				Definitions of Five Vegetation Strata:
···				Bonnitons of the Vegetation ettata.
50% of total cover:	20% of	total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 50		total ooron.		(7.6 cm) or larger in diameter at breast height (DBH).
1 Paspalum notatum	80	Y	FACU	Sapling Weedy plants, evoluting weedy vines
2 Solidago canadensis	30	Y	FACU	approximately 20 ft (6 m) or more in height and less
3 Symphyotrichum laeve	15	N	FAC	than 3 in. (7.6 cm) DBH.
4 Carex athrostachya	5	N	FAC	Shrub – Woody plants, excluding woody vines,
5 Lythrum alatum	5	N	OBL	approximately 3 to 20 ft (1 to 6 m) in height.
6.				Herb – All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size, and woody
8.				plants, except woody vines, less than approximately 3 ft (1 m) in height
9.				
10.				Woody vine – All woody vines, regardless of height.
11.				
	135	= Total Cov	er	
50% of total cover: 67.5	20% of	total cover:	27	
Woody Vine Stratum (Plot size: 50)	_			
1. Rubus trivialis	15	Υ	FACU	
2.				
3.				
4				
5				Hydrophytic
	15	= Total Cov	er	Vegetation
50% of total cover: 7.5	20% of	total cover:	3	Present? Yes No V
Remarks: (If observed, list morphological adaptations belo	w).			1
	<i>*</i>			

## SOIL

Depth       Mainty       Redact Features       Tope       Loc       Texture       Remarks         0.10       10/Rel/3       100       10       SC	Profile Desc	ription: (Describe	to the dept	h needed to docum	nent the	indicator	or confirm	m the absence o	of indicators.)
Indices       Code (mask)       %       Loc	Depth	Matrix		Redo	x Feature	es1	. 2	<b>-</b> (	
U-10       IOYR4/3       IOU       SC         IO-16       IOYR4/3       IOU       SC         Image: Charles of the state of the	(inches)			Color (moist)	%	lype'	LOC	exture	Remarks
10-16       10/YR4/2       95       10/YR4/2       5       D       M       SC         Image: Concreantration Drobglation, RM-Reduced Matrix, MS-Masked Sand Grains.       *Location: PL=Pere Lining, M=Matrix: Hydric Solid Nations: (AP) (LRR S, T, U)       Image: Concreantration Drobglation, RM-Reduced Matrix, MS-Masked Sand Grains.       *Location: PL=Pere Lining, M=Matrix: Hydric Solid Nations: (AP) (LRR S, T, U)         Image: Concreantration Drobglation, RM-Reduced Matrix, MS-Masked Sand Grains.       *Location: PL=Pere Lining, M=Matrix: Hydric Solid Nations: (AP) (LRR S, T, U)       Image: Concreantration Drobglation RM-Reduced Matrix (FS)         Image: Concreantration Drobglation (AP)       Image: Concreantration Drobglation RM-Reduced Matrix (FS)       Image: Concreantration Drobglation RM-Reduced Matrix (FS)         Image: Concreantration Drobglation (AP)       Image: Concreantration RM-Reduced Concreation (FP)       Image: Concreantration RM-Reduced RM-REP, F, T)         Image: Concreantration Drobglation (FS)       Image: Concreantration RM-Reduce (FF)       Image: Concreantration RM-Reduced RM-REP, F, T)         Image: Concreantration RM-Reduce (AT)       Image: Concreantration RM-Reduce (FF)       Image: Concreantration RM-Reduce (AT)         Image: Concreantration RM-Reduce (AT)       Image: Concreantration RM-Reduce (AT)       Image: Concreantration RM-Reduce (AT)         Image: Concreantration RM-Reduce (AT)       Image: Concreantration RM-Reduce (AT)       Image: Concreantration RM-Reduce (AT)         Image: Concreantration R	0-10	10YR4/3	- 100	40\/D4/0	. <u> </u>			<u> </u>	
Type:       C-Concentration, D-Deptetion, RM-Reduced Matrix, MS-Masked Sand Grains.       *Locator:       PL-Pore Lining, M-Matrix.         Hydra Soll Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Mydra Solls*.       Indicators for Problematic Mydra Solls*.         Histos(IA)       Depted (A3)       Depted (A1)       Indicators for Problematic Mydra Solls*.         Histos(IA)       Depted (A1)       Depted (A1)       Depted (A1)         Birtafield Lays Solids (A4)       Depted (A1)       Depted (A1)       Depted (A1)         Birtafield Lays Solids (A2)       Depted (A1)       Depted (A1)       Depted (A1)         Depted Solids (A3)       Depted (A1)       Depted (A1)       Depted (A1)         Depted Solids (A3)       Depted (A1)       Depted (A1)       Depted (A1)       Depted (A1)         Depted Solids (A3)       Depted (A1)       Depted (A1)       Depted (A1)       Depted (A1)       Depted (A1)         Depted Solids (A3)       Depted (A1)       Depted (A1)       Depted (A1)       Depted (A1)       Depted (A1)	10-16	10YR4/2	95	10YR4/6	5		Μ	SC	
Type:       C=Concentration. D=Depletion. RM=Reduced Matrix: MS=Masked Sand Grains.       *Location: PL=Pore Lining. M=Matrix: Hydric Soils*:         Hydric Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         Histic Epiperon (A2)       Depleted States (68) (LRR S, T)       Depleted States (68) (LRR A)         Histic Epiperon (A2)       Depleted Matrix (F2)       Depleted Matrix (F2)         Organic Eook (A3) (LRR P, T)       Depleted Admix (F2)       Depleted Admix (F2)         Organic Eook (A3) (LRR P, T)       Depleted Other (F1) (MLRA 151)       Indicators of Hydrodynic veptetion and such advance (F1) (MLRA 151)         Depleted Admix (F3)       Depleted Other (F1) (MLRA 151)       Indicators of Hydrodynic veptetion and such advance (F1) (MLRA 151)         Depleted Admix (F3)       Depleted Other (F1) (MLRA 151)       Indicators of Hydrodynic veptetion and such advance (F1) (MLRA 151)         Depleted Admix (F3)       Depleted Other (F1) (MLRA 151)       Indicators of Hydrodynic veptetion and such advance (F1) (MLRA 151)         Bandy Redox (35)       Depleted Other (F1) (MLRA 154)       Indicators of Hydrodynic veptetion and such advance (F1) (MLRA 154)         Bandy Redox (35)       Depleted Other (F1) (MLRA 154)       Indicators of Hydrodynic veptetion and such advance (F1) (MLRA 154)         Bandy Redox (35)       Depleted Other (F1) (MLRA 150)       Indicators of Hydrodynic Veptetion advance (F1) (MLRA 15									
Type:       C=Concentration. D=Depletion. RM=Reduced Matrix. M3=Masked Sand Grains. <sup>2</sup> Location. PL=Pcre Lining. M=Matrix.          Hydric Soll Indicators:       (Applicable foall LRRs, unless otherwise noted.)          Indicators for Problematic Hydric Solls*:          Histos (IA)          Length (LRRs)           Length (LRRs)           Length (LRRs)          Bisck Histis          Explored nAtrix.           Length (LRRs)           Length (LRRs)          Bisck Histis          Longth (LRRs)           Length (LRRs)           Length (LRRs)          Bisck Histis          Longth (LRRs)           Length (LRRs)           Length (LRRs)          Bisck Histis          Length (LRRs)           Length (LRRs)           Length (LRRs)									
Type:: C=Concentration. D=Depletion. RM=Reduced Matrix: MS=Masked Sand Grains.       *1 contion: PL=Pore Lining, M=Matrix         Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators: (Applicable to all LRRs, unless otherwise noted.)         Histosol (A1)       Polynatus Below Surface (S3) (LRR S, T, U)       Iom Muck (A9) (LRR P)         Histosol (A1)       Polynatus Below Surface (S3) (LRR S, T, U)       Iom Muck (A10) (LRR P)         Organic Boak (A2)       Polynatus Below Dark Surface (F1)       Polynatus Below Dark Surface (F1)         Organic Boak (A12)       Polynatus Below Dark Surface (F1)       Polynatus Below Dark Surface (F1)         Depleted Boak (A12)       Polynatus Below Dark Surface (F1)       Polynatus Below Dark Surface (F1)         Costs Praine Redox (A16) (MLRA 150A)       Polynatus Below Dark Surface (F1)       Polynatus Below Dark Surface (F1)         Depleted Boak (S1) (LRR P, S, T)       Depleted Dark (S1) (LRR P, S, T)       Polynatus Below Dark Surface (F1)         Row (Aley Mark (S3)       Polynatus Below Dark Surface (F1)       Polynatus Below Dark Surface (F1)         Depleted Boak (S1) (LRR P, S, T)       Deblete Other (F1) (MLRA 151)       Polynatus Below Dark Surface (F1)         Row (Aley Whitrix (S1)       Polynatus Below Dark Surface (F1)       Polynatus Below Dark Surface (F1)         Destroct Boak Mark (S3)       Polynatus Below Dark Surface (F1)       Polynatus Below Dark Surface (F1) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Type:       C:=Ccncentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.       Location:       PL=Pore Lining, M=Matrix, MS=Masked Sand Grains.         Hydrte Soll Indicators:       (Applicable to all LRRs, unless otherwise (S9) (LRR S, T, U)       Indicators for Problematic Hydric Solls?:         Histic Epipeden (A2)       Downy Mucky Minter (S9) (LRR S, T, U)       Com Muck (A10) (LRR P, S, T)         Black Histic (A3)       Downy Mucky Minter (S9) (LRR S, T, U)       Reduced Vertic (F18) (outside MLRA 150A,B)         Predmot Probability Solis (F20)       Minter (A2)       Downy Mucky Minter (A2) (LRR P, T, U)         Brack Histic (A3)       Dopted Matrix (F3)       Dopted Matrix (F3)         Brack Histic (A3)       Dopted Datk Surface (F7)       Dopted Datk Surface (F7)         Muck Presence (A8) (LRR P, T, U)       Dopted Datk Surface (F7)       Dopted Datk Surface (F7)         Depieted Matrix (F3)       Dopted Datk Surface (F7)       Dopted Datk Surface (F7)         Muck Presence (A3) (LRR P, T, U)       Dopted Datk Surface (F7)       Dopted Datk Surface (F7)         Depieted Matrix (F3)       Dopted Datk Surface (F7)       Dopted Datk Surface (F7)         Sandy Mucky Minerel (37) (LRR P, S, T, U)       Depieted Matrix (F3)       Dopted Datk Surface (F7)         Back Hings (F3)       Depieted Matrix (F3)       Dopted Datk Surface (F7)       Muck Present(7 Yes)         Sandy Rudek (F3)<									
"Type: C=Concentration. D=Depletion. RM=Reduced Matrix, MS=Masked Sand Grains.       "Location: PL=Pore Lining, M=Matrix.         Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Solls?:         Histosd (A)       Depleted Matrix (F3)       Indicators for Problematic Hydric Solls?:         Bitox Histic (A)       Depleted Matrix (F3)       Pedmont Floodplain Solis (F19) (LRR P, 5, T)         Program: Bolide (A4)       Depleted Matrix (F3)       Pedmont Floodplain Solis (F19) (LRR P, 5, T)         Program: Bolide (A4) (LRR P, T, U)       Depleted Dark Surface (F7)       Pedmont Floodplain in Remarks)         Depleted Dark Surface (F1)       Depleted Dark Surface (F12)       Other (Explain in Remarks)         Depleted Dark Surface (F11)       Umbro: Surface (F12) (LRR P, T, U)       Bedited Chark Surface (F12) (LRR P, T, U)         Depleted Dark Surface (F12)       Depleted Dark Surface (F12)       Other (Explain in Remarks)         Depleted Dark Surface (F12) (LRR P, T, U)       Bedited Chark Surface (F12) (LRR P, T, U)       Indicators of Phytophytic vegetation and wetland (Wink Mineral (S1) (LRR P, T, U)         Boark Hieley Mineral (C3) (LRR P, S, T)       Depleted Chark Surface (F12) (LRR P, T, U)       Indicators of Phytophytic vegetation and wetland (Wink (S6))         Boark Hieley Mineral (C3) (LRR P, S, T, U)       Remarks       Indicators of Phytophytic vegetation and wetland (Wink (S6))         Dark Surface (S					·				
Type:       Cleanor:       Cl	17			De duce d Matrice MG				21	Di Dana Liata M Mataia
Imported to an induction of the problem of the pro	Hydric Soil	oncentration, D=Dep Indicators: (Applic	able to all	Reduced Matrix, Ma	S=IVIASKe	d Sand Gr ted )	ains.	Location: H	PL=Pore Lining, M=Matrix.
Initials (A)       Imin Dark Surface (S9) (LRR 0)       2 mm Muck (A10) (LRR 9)         Reduce 01 (A2)       Imin Dark Surface (S9) (LRR 0)       Reduce 01 (A2)         Ibrack Histic (A3)       Imin Dark Surface (S9) (LRR 0)       Reduce 01 (A2)         Ibrack Histic (A3)       Imin Dark Surface (F1) (LRR 0)       Reduce 01 (A2)         Ibrack Histic (A3)       Imin Dark Surface (F1)       Imin Dark Surface (F2)         Ibrack Histic (A3)       Imin Dark Surface (F1)       Imin Dark Surface (F2)         Ibrack Missic (A2)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (A2)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (A2)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (A2)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (A2)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (A2)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (A3)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (S1)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (S1)       Imin Dark Surface (F1)       Imin Dark Surface (F1)         Ibrack Missic (S1)       Imin Dark Surface (F1)       Imin Dark	Histosol	(Δ1)			low Surfs	ace (S8) (I	RRST		
Black Histic (A3) Hydrogen Sulfde (A4) Depleted Matrix (F3) Graphic Bodies (A6) (LRR P, T, U) Benket Dark Surface (F6) Depleted Dark Surface (F1) How Presence (A6) (LRR P, T, U) Depleted Below Dark Surface (A1) Depleted Dark Surface (A1) Depleted Dark Surface (A1) Depleted Dark Surface (A1) Depleted Dark Surface (F1) (MLR A 151) Depleted Dark Surface (F1) (MLR A 150) Depleted Dark Surface (F1) (MLR A 150) Depleted Dark Surface (F12) (LRR P, T, U) Depleted Dark Surface (F13) (LRR A 150, 1508) Hombit Surface (F13) (LRR A 150, 1508) Depleted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depth (inches): Type: Depth (inches): Depth (		bipedon (A2)		Thin Dark Su	rface (SS	) (LRR S.	T. U)		uck (A10) (LRR S)
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Pedmet Matrix (F2)         Organic Bodies (A6) (LRR P, T, U)       Depieted Matrix (F3)       Redox Dark Surface (F7)         Redox Dark Surface (F7)       Redox Dark Surface (F7)       Redox Dark Surface (F7)         Muck Presence (A6) (LRR P, T)       Depieted Matrix (F3)       Depieted Park Surface (F7)         Muck Presence (A6) (LRR P, T)       Depieted Dark Surface (F7)       Redox Dark Surface (F7)         Muck Presence (A6) (LRR P, T)       Depieted Obric (F11) (MLRA 151)       Derived Matrix (F3)         Depieted Obric (F11) (MLRA 151)       Depieted Obric (F13) (MLRA 151)       Introductors of hydrophytic vegetation and welland hydrogony musb persent, unless disturbed or problematic.         Sandy Medox (S5)       Defied Obric (F13) (MLRA 150A, 150B)       Defied Obric (F13) (MLRA 153A, 150A, 153D)         Sandy Redox (S5)       Dark Surface (S7) (LRR P, S, T, U)       Nomalious Bright Leamy Solis (F20) (MLRA 143A, 153C, 153D)         Restrictive Layer (If observed):       Type:       Depth (Inches):       No         Depth (Inches):       Hydric Soil Present?       Yes No       No	Black Hi	stic (A3)		Loamy Mucky	y Mineral	(F1) <b>(LRF</b>	₹ O)	Reduce	d Vertic (F18) (outside MLRA 150A,B)
Brainfied Layers (A5)       Companie Dodles (A6) (LRR P, T, U)       Pepteted Dark Surface (F6)       Companie Dodles (A6) (LRR P, T, U)         Brainfied Layers (A8)       CLRR P, T, U)       Pepteted Dark Surface (F7)       Companie Dodles (A6) (LRR P, T, U)         Corpanie Dodles (A6) (LRR P, T, U)       Pepteted Dark Surface (F7)       Companie Dodles (A6) (LRR P, T, U)       Pepteted Dork Surface (F12)         I com Muck Presence (A8) (LRR U)       Pepteted Dork Surface (F12)       Companie Dodles (A6) (LRR P, T, U)       Pepteted Dork Surface (F12) (LRR U)         Depiteted Delew Dark Surface (F12)       Companie Dodles (A6) (LRR U)       Depiteted Cohin (F11) (MLRA 151)       Thore Marganese Masses (F12) (LRR U, P, T, U)       Thore Marganese Masses (F12) (LRR U, P, T, U)       Thore Marganese Masses (F12) (LRR U, P, T, U)       Thore Marganese Masses (F12) (LRR U, P, T, U)       Thore Marganese Masses (F12) (LRR U, P, T, U)       Thore Marganese Masses (F12) (LRR U, P, T, U)       Thore Marganese Masses (F12) (LRR U, P, T, U)       Undext Merai (S1) (LR C, S)       Defia Ochin (F11) (MLRA 150, 150B)       Thore Marganese Masses (F12) (MLRA 149A,	Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix	(F2)		Piedmo	nt Floodplain Soils (F19) (LRR P, S, T)
Corganic Bodies (A9) (LRR P, T, U)       Redox Dark Surface (F6)       (Red Parent Material (TF2)         Work Presence (A8) (LRR U)       Depleted Dark Surface (TF12)       Red Parent Material (TF2)         Undex Presence (A8) (LRR U)       Depleted Dark Surface (TF12)       Other (Explain in Remarks)         Depleted Dev Dark Surface (A12)       Depleted Dark Surface (F12) (LRR 0, P, T, U)       Indicators of hydrophytic vegetation and wetland hydrophytic vegetation and wetland hydrophytic vegetation and wetland hydrophytic vegetation and surface (T81) (LRR 0, F1, T, U)       Indicators of hydrophytic vegetation and wetland hydrophytic vegetation and vegetation and vegetation and vegetation and vegetation and vegetation and vegetation hydrophytic vegetation and ve	Stratified	d Layers (A5)		Depleted Mat	trix (F3)			Anomal	ous Bright Loamy Soils (F20)
Image: Stripted Lark Surface (F1)       Image: Stripted Lark Surface (F12)       Image: Stripted Lark Surface (F12)         Image: Stripted Lark Surface (A12)       Image: Stripted Lark Surface (F12)       Image: Stripted Lark Surface (F12)         Image: Stripted Lark Surface (A12)       Image: Stripted Lark Surface (F12)       Image: Stripted Lark Surface (F12)         Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F12)       Image: Stripted Lark Surface (F12)         Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)         Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)         Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)         Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)         Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)         Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)         Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surface (F13)       Image: Stripted Lark Surfa		Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (I	F6)			A 153B)
Import Treatmost Treatmos		icky Mineral (A7) (L esence (A8) (I RR I	KK P, I, U) I)	Bedoy Depre	K Surface	e (F7) 58)		Very Sh	rent Material (TF2) allow Dark Surface (TF12)
Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Coast Prinie Redox (A15) (MLRA 150,)       Durbric Surface (F13) (LLRR O, P, T)       "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1) (LRR O, S)       Depleted Ochric (F17) (MLRA 150,)       The second of the second o		ick (A9) (LRR P. T)	,	Marl (F10) (L	.3310113 (1 RR U)	0)		Other (E	Explain in Remarks)
Inick Surface (A12)       Inon-Marganese Masses (F12) (LRR O, P, T)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unbric Sandy Mucky Minerel (S1) (LRR O, S1)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Minerel (S1) (LRR O, S)       Delta Ochric (F13) (ILRR A 150)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Minerel (S1) (LRR O, S)       Delta Ochric (F13) (ILRR A 150)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Minerel (S1) (LRR O, S)       Delta Ochric (F13) (ILRR A 150)       Indicators of hydrophytic vegetation and hydrology must be present, unless disturbed or problematic.         Sandy Mucky Minerel (S1) (LRR O, S)       Delta Ochric (F13) (ILRA 150)       Delta Ochric (F13) (ILRA 149A)         Anomalous Bright Learny Solis (F20) (MLRA 149A, 153C, 153D)       Dent Surface (S1) (LRR P, S, T, U)         RestrictUs Layor (If Observed):       Type:	Depleter	d Below Dark Surfac	e (A11)	Depleted Och	nric (F11)	(MLRA 1	51)		
Coast Prairie Redox (A16) (MLRA 1500)       Umbric Surface (F13) (LRR P, T, U)       wetland hydrology must be present, unless disturbed or problematic.         Sandy Mudey Mineral (S1) (LRR O, S)       Delta Cohrie (F17) (MLRA 150)       unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Delta Cohrie (F17) (MLRA 149A)       unless disturbed or problematic.         Stripped Matrix (S4)       Delta Cohrie (F17) (MLRA 149A)       Anomalous Bright Learny Soils (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Restrictive Layer (Irobserved):       Type:	L Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	ses (F12) <b>(</b>	LRR O, P	, T) <sup>3</sup> Indica	tors of hydrophytic vegetation and
Bandy Mudry Mineral (S1) (LRR 0, S)       Define Octor (F17) (MLRA 151)       unless disturbed or problematic.         Sandy Gleved Matrix (S6)       Define Octor (F17) (MLRA 150A, 150B)       Piedmont Floodplain Soils (F19) (MLRA 149A)         Anomalous Bright Learny Soils (F20) (MLRA 149A, 153C, 153D)       Dark Surface (S7) (LRR P, S, T, U)       Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D)         Restrictive Layer (If observed):       Type:		rairie Redox (A16) (	MLRA 150A	() Umbric Surfa	ce (F13)	(LRR P, T	', U)	wetla	and hydrology must be present,
Sandy Geyde Matrix (Se)       Piedmont Floodplain (Solis (F19) (MLRA 149A)         Sandy Acdox (S5)       Anomalous Bright Learny Solis (F20) (MLRA 149A, 153C, 153D)         Dark Surface (S7) (LRR P, S, T, U)       Piedmont Floodplain (Solis (F19) (MLRA 149A), 153C, 153D)         Restrictive Layer (If Observed):       Type:         Depth (Inches):       Piedmont Floodplain (Solis (F19) (MLRA 149A), 153C, 153D)         Remarks:       No	Sandy N	lucky Mineral (S1) ( Neved Matrix (S4)	LRR O, S)	Delta Ochric	(F17) <b>(I</b> ₩I tic (E18)	LRA 151) (ML RA 14	0A 150B	unles	ss disturbed or problematic.
Stripped Matrix (S6)   Dark Surface (S7) (LRR P, S, T, U)     Restrictive Layer (if observed):   Type:   Depth (inches):   Remarks:	Sandy R	edox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 1)	/ 49A)	
□ Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type: Depth (inches): Hydric Soil Present? Yes ✓ No  Remarks:	Stripped	Matrix (S6)		Anomalous B	Bright Loa	my Soils (	F20) (MLI	RA 149A, 153C,	153D)
Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes       No         Remarks:	Dark Su	rface (S7) <b>(LRR P,</b> 3	S, T, U)						
Type:	Restrictive	Layer (if observed)	:						
Depth (inches): No	Туре:								
Remarks:	Depth (in	ches):						Hydric Soil F	Present? Yes <b>V</b> No
	Remarks:								