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Cenac Park

Wetlands Delineation Report



Cenac Park Wetlands Delineation Report

Wetland Delineation Report

Cenac Park Site Lafayette Parish, Louisiana

Prepared for
One Acadiana

March 2020

Prepared by

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Introduction

1.1 Background

Chenier Environmental Consulting, LLC (Chenier) has been retained by One Acadiana to prepare a wetland delineation on an approximately 35-acre site located adjacent to and east of Interstate 49 near Carencro, Lafayette Parish, Louisiana (Figure 1).

The purpose of this report is to present field data, habitat descriptions, and other pertinent information on the three diagnostic characteristics of wetlands and non-wetland waters of the United States (WOUS) within the survey boundary (Site).

Please be advised that PJDs are non-binding, advisory in nature, and cannot be appealed. Furthermore, when the USACE provides a PJD, or authorizes an activity based on a PJD, the Corps is making no legally binding determination of any type regarding whether jurisdiction exists over the particular water body or wetland in question governed by Clean Water Act or Rivers and Harbors Act of 1899. A recipient of a PJD can later request and obtain an approved jurisdictional determination if that becomes necessary during the permitting process.

Chenier conducted a site visit on February 14, 2020 to identify and delineate potential WOUS features, including wetlands, which occur within the proposed project area. Chenier identified one 0.33-acre potential jurisdictional wetland, 732 linear feet of non-wetland Waters of the U.S., and 1,303 linear feet of non-jurisdictional drainage ditches.

Based on communication with the USACE, no previous PJD requests have been made for the site and no Section 404 Permit Applications have been submitted to the USACE.

Methodology

2.1 Desktop Review

Prior to conducting field surveys, a desktop review of potential wetlands and non-wetland WOUS and jurisdictional status of these features was completed using Natural Resources Conservation Service (NRCS) soil data; Lafayette Parish Soil Survey Reports; U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) data; United States Geological Survey (USGS) 7.5-minute topographic maps; and color-infrared aerial photography; and the USGS National Hydrographic Dataset (Figure 2). The information gathered during the desktop review is further discussed in Section 3. The presence of wetlands and other WOUS was confirmed by a field visit during which the boundaries of these features were defined.

2.2 WOUS Delineation

Field delineations were conducted following procedures set forth in the Interim Regional Supplement of the USACE Wetlands Delineation Manual: Atlantic and Gulf Coast Region (USACE 2010). Chenier biologist followed USACE standard procedures to evaluate wetlands and other WOUS subject to regulation under the Clean Water Act (jurisdictional waters), as established in the Atlantic and Gulf Coast Supplement (USACE 2010) and the USACE Jurisdictional Determination Form Instructional Guidebook (USACE 2007), respectively. For the purpose of this report, streams are classified as follows:

- **Perennial stream:** A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.
- **Intermittent stream:** An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.
- **Ephemeral stream:** An ephemeral stream has flowing water only during and for a short duration after precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

The Corps of Engineers Wetlands Delineation Manual (USACE 1987) defines wetlands as areas that have positive indicators for hydrophytic vegetation, wetland hydrology, and hydric soils, or as:

“Areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.”

2.3 Definition of Boundaries

The limits of USACE jurisdiction for non-tidal waters (not including wetlands) of the United States (creeks, streams, etc.) are identified by the presence of ordinary high-water marks (OHWMs). The OHWM is defined as

“That line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in soil character, destruction of terrestrial vegetation, the presence of litter or debris, or other appropriate means that consider the characteristics of the surrounding areas” (USACE 2007).

The wetland/upland boundary is determined when one of the mandatory criteria (soils, vegetation, and hydrology; described later in this section) does not exist.

2.4 Field Documentation

The following text describes the methods used during the WOUS surveys.

2.4.1 WOUS and Wetlands

The Routine Onsite Determination Method involves the following steps:

1. Locate the project area;
2. Identify the community type(s);
3. Select representative observation points;
4. Characterize each plant community type;
5. Record the indicator status of dominant species;
6. Determine whether hydrophytic vegetation is present and dominant;
7. Determine whether wetland hydrology is present;
8. Determine whether hydric soils are present.

Under this method, areas exhibiting a presence of wetland hydrology, hydric soils, and a dominance of hydrophytic vegetation are defined as wetlands. The method requires that additional consideration be given to sites with atypical conditions (evidence of sufficient natural or human-induced alterations that significantly alter the soils, vegetation, or hydrology) and sites where normal environmental conditions are not present during the wetland delineation (i.e., no hydrophytic vegetation due to annual or seasonal fluctuations in precipitation or groundwater levels).

Data was collected at representative observation points within each plant community type. USACE Atlantic and Gulf Coastal Plain wetland data forms were completed for each observation point. The figures included in Appendix A, Figures 3 and 4 depict the potential jurisdictional wetlands/WOUS features and observation points recorded during the survey. The wetland and upland data forms are presented in Appendix B, and photographs of sampling points are located in Appendix C.

Each identified wetland was classified based on the U.S. Fish and Wildlife Service classification system (Cowardin, Carter, et al. 1979). Dominant vegetation was noted according to stratum: tree, shrub/sapling, woody vine, or herb. The wetland indicator status (Table 1) for each species was identified using the National Wetlands Inventory List of Plants that Occur in Wetlands (Reed 1988) and subsequent approved modifications to this list. Plants were identified using current taxonomic references, such as Aquatic and

Wetland Plants of the Southeastern United States (Godfrey and Wooten 1981, Godfrey and Wooten 1980). Where recent taxonomic changes resulted in plant names that were not included in the National Wetlands Inventory List of Plants that Occur in Wetlands (Reed 1988), appropriate synonymy was used to reference the national list.

TABLE 1
Definitions for Wetland Indicator Status

Code	Term	Definition
OBL	Obligate	Species occurs in wetlands greater than 99% of the time.
FACW	Facultative Wetland	Species occurs in wetlands 67% to 99% of the time.
FAC	Facultative	Species occurs in wetlands 34% to 66% of the time.
FACU	Facultative Upland	Species occurs in wetlands 1% to 33% of the time.
UPL	Upland	Species occurs in wetlands less than 1% of the time.

Soil information was obtained from the Natural Resources Conservation Service (NRCS) Web Soil Survey for Lafayette Parish, Louisiana (NRCS 2019). Within each area investigated, soil samples were inspected for hydric soil indicators, as provided for on the wetland data forms. Using the Munsell Soil Color Charts (Munsell 1994), the value and chroma of soil samples were recorded. Soil texture and any observations of redoximorphic features were recorded. Wetland hydrology observations included soil saturation, evidence of any standing or ponded water, the presence of drainage patterns, and/or drift lines, and any additional primary or secondary hydrology indicator as defined by the Interim Regional Supplement of the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coast Region (USACE 2010).

Desktop Review

3.1 Location

The site is located in Carencro, Lafayette Parish, Louisiana (Figure 1). The site is irregularly shaped and is approximately 35 acres (Figure 3). The Site is bordered by Rue Des Etoiles Road to the north; Gauthiers' Rental (Pac Van) to the south; residential subdivision to the east; Southeaster Freight Lines and Don's Specialty Meats to the west. The site is in Section 94, Township 8 South, Range 4 East and can be accessed off Rue de Cotton Road from the Interstate 49 Service Road.

Lafayette Parish is located in the south west part of Louisiana and is in the Western Gulf Coast Plain Ecoregion of Louisiana (Figure 1) and falls within the *Gulf Coast Marsh Major Land Resource Area* (MLRA 134) (NRCS 2006).

3.2 Geology

The Site is located within the Lafayette Loess Plains region of the Western Gulf Coastal Plain. Soils include Quaternary-age deltaic sands, silts, clays and gravel that are capped with a loess veneer associated with the Mississippi Valley. The specific soil types that underly the Site are discussed below.

3.3 Hydrology

The site slopes gradually towards the middle and is well-drained. The primary hydrology feature is a ephemeral stream that originates on the west side of the property at the end of Rue de Cotton Road. The stream is connected to the municipal drainage system which runs along Rue de Cotton Road. The stream flows northward following the contour of the property. Two other man-made drainage ditches run along the southern and southeastern edges of the property. Surface runoff from the southern part of the property flows down-hill towards the southeast corner and into a deeply-incised coulee that runs south of the property.

The Site is in the Mississippi River Basin. The Hydrologic Unit Code (HUC) for this area is 08080103. The USFWS National Wetland Inventory (NWI) Map depicts no wetlands or WOUS on the site.

According the FEMA National Flood Insurance Hazard website, the Site is located within DFIRM Zone X and ground elevation ranges from 17 to 21 feet above mean sea level (FEMA <https://hazards-fema.maps.arcgis.com>).

3.4 Soils

The soil series located within Lafayette Parish are described by the U.S. Department of Agriculture (USDA), Natural Resources Conservation Service on the Web Soil Survey (<http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>). According to the Web Soil

Survey, the Site is underlain primarily by Memphis silt loam (MbA) and a small area of Frost silt loam (FrA).

Figures 2 and 3 shows the distribution of the soil series across the Site and surrounding area.

3.4.1 Memphis silt loam

The Memphis series consists of very deep, moderately permeable, well drained soils that formed in loess deposits more than 48 inches (121.92 cm) in thickness. These soils are on terraces and uplands of the Coastal Plain. Slopes range from 0 to 50 percent. The upper three horizons of a representative profile of a Calhoun Silt Loam soil consist of:

- 0 to 10 cm (0 to 4 in); dark grayish brown (10YR 4/2) silt loam; weak fine and medium granular structure
- 10 to 23 cm (4 to 9 in); brown (10YR 4/3) silt loam; weak medium and fine granular structure
- 23 to 58 cm (9 to 23 in); brown (7.5YR 4/4) silty clay loam; moderate fine and medium subangular blocky structure

Memphis silt loam is included on the 2014 National Hydric Soils List for Lafayette Parish (NRCS 2018).

3.4.2 Frost silt loam

The Frost series consists of very deep, poorly drained, slowly permeable soils that formed in silty alluvium or loess. These soils are in broad depressional areas and in drainageways on late Pleistocene age terraces. Slope is dominantly less than 0.5 percent, but it ranges to 1 percent along narrow drainageways.

- 0 to 6 inches; grayish brown (10YR 5/2) silt loam; weak medium granular structure
- 6 to 10 inches; grayish brown (10YR 5/2) silt loam; weak medium granular structure
- 10 to 22 inches; light brownish gray (10YR 6/2) and gray (10YR 6/1) silt loam; weak medium subangular blocky structure

Frost silt loam is included on the 2014 National Hydric Soils List for Lafayette Parish (NRCS 2018).

3.5 Vegetation and Land Use

The site is located off Rue de Cotton road, and directly east of Don's Specialty Meats (4120 NE Evangeline Throughway). The site is primary used as agricultural land, where herbaceous plants are grown for hay. Based on a review of historical topographic maps, the site appears to have been agricultural land since at least the 1930s.

Site Visit Results

4.1 Wetlands and WOUS

Field investigations identified one potential jurisdictional wetland and a non-wetland Water of the U.S. on the Site. The Preliminary Jurisdictional Wetland Map (Appendix A, Figures 3 and 4) shows the non-wetland waters identified during this investigation.

4.1.1 Wetland Habitat Descriptions

One potentially jurisdictional wetland (W1) met the three (3) mandatory wetland criteria. The following is a description of the wetland identified:

W1 is palustrine emergent (PEM) wetland that has formed adjacent to and at the end of an ephemeral stream (S1) that crosses the site. The wetland data points include DP5, and DP6 and dominant vegetation consists of mostly FAC species including: Kidney weed (*Dichondra micrantha* - FAC), Creeping buttercup (*Ranunculus repens* - FAC), Curly dock (*Rumex crispus* - FAC), Annual rye grass (*Festuca perennis* - FAC), Brazilian Vervain (*Verbena brasiliensis* - FAC), and Beaked cornsald (*Valerianella radiata* - FAC).

- Primary wetland hydrology indicators present include surface water, high water table, saturation, and watermarks. Secondary indicators include drainage patterns, and geomorphic position.
- The primary hydric soil indicator includes dark surfaces.

4.1.2 Non-wetland Waters of the U.S. Descriptions

The following are descriptions of the potentially jurisdictional non-wetland waters (ditches, streams, etc.) on the Site:

- **S1** is an ephemeral stream that originates on the west side of the property at the end of Rue de Cotton Road. The stream is connected to the municipal drainage system which runs along Rue de Cotton Road. Based on the odor and discoloration of the water, the drainage system appears to convey wastewater from the businesses along Interstate 49. The stream itself was overgrown with senesced vegetation at the time of the site visit and standing water was observed. S1 is approximately 850 feet long and mean high water appeared to be approximately 6-12 inches based on the water line visible. A small drain also included as part of the S1 drainage system flows north to south into the main S1 channel. It is approximately 250 feet long and appears to capture much of the surface runoff from the northern most field and hydrologic movement appears to be southward. S1 forms W1 at the base of the slight hill.

4.2 Upland Feature Descriptions

The site is a typical hay field covered with a variety of herbaceous species with dense forested tree lines bordering the perimeter. The upland data points include DP1, DP2, DP3, DP4, DP7,

DP8, and DP9. Dominant vegetation consists of mostly FAC species and typical species found throughout the upland parts of the site include: Bermuda grass (*Cynodon dactylon*), Annual rye grass (*Festuca perennis*), Little bluestem (*Schizachyrium scoparium*), Butterweed (*Packera glabella*), Wild geranium (*Geranium pretense*), Beaked cornsalad (*Valerianella radiata*) and muscadine (*Vitis rotundifolia*). The dominant trees and shrubs found in the forested area include: water oak (*Quercus nigra*), sweet pecan (*Carya illinoensis*) and Chinese privet (*Ligustrum sinense*) (see Appendix A, Figures 3 and 4).

SECTION 5

Conclusion

This report summarizes the results of the wetland delineation conducted in February 2020 on an approximately 35-acre site in Carencro, Lafayette Parish, Louisiana. This report identifies one 0.33-acre potential jurisdictional wetland, 732 linear feet of non-wetland Waters of the U.S., and 1,303 linear feet of non-jurisdictional drainage ditches.

Wetlands and watercourses were delineated in accordance with the USACE Wetland Delineation Manual (USACE Environmental Laboratory 1987) and Interim Regional Supplement of the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coast Region (USACE 2010). These features were described based on field assessments and reviews of readily available data, including NWI maps, NRCS soil surveys, 7.5-minute USGS topographic quadrangles maps, and USGS NHD data.

The USACE, under the authority of Section 404 of the Clean Water Act and of Section 10 of the Rivers and Harbor Act, has the authority to make the final determination of the location and extent of jurisdictional wetlands and navigable waters for this project area, respectively. This report represents the opinion of the Chenier investigators and should be considered preliminary until final concurrence is obtained from the USACE New Orleans District.

Responses to Specific Questions Provided in Solicitation

1. Identify any bodies of water on or abutting the site and identify the authority with jurisdiction over them.

Response: A unnamed stream (coulee) borders the southeast corner of the site (See Figure 2). This stream will fall under the jurisdiction of the USACE under the Clean Water Act.

2. Do wetlands and/or other waterways exist on or near the site? a. If yes, provide map and shapefile.

Response: Yes. Approximately 0.33 acres of potentially-jurisdictional emergent wetlands exist on the site. See Figure 3 and 4. A shapefile is provided with this submittal.

3. If wetlands are present, has a Section 404 Permit Application been submitted to USACE? a. If yes, please provide a copy of the Permit application

Response: According to the USACE, no jurisdictional determination has been issued for the site. A jurisdictional determination would be required prior to issuing a Section 404 permit on the site.

4. If wetlands are present, has the Section 404 Permit been received from USACE? a. If yes, please provide a copy of the approved Permit.

Response: see #3

5. If wetlands are present, have all wetlands on the site been mitigated? a. If yes, provide document showing signed agreement with wetlands bank or other substation.

Response: see #3

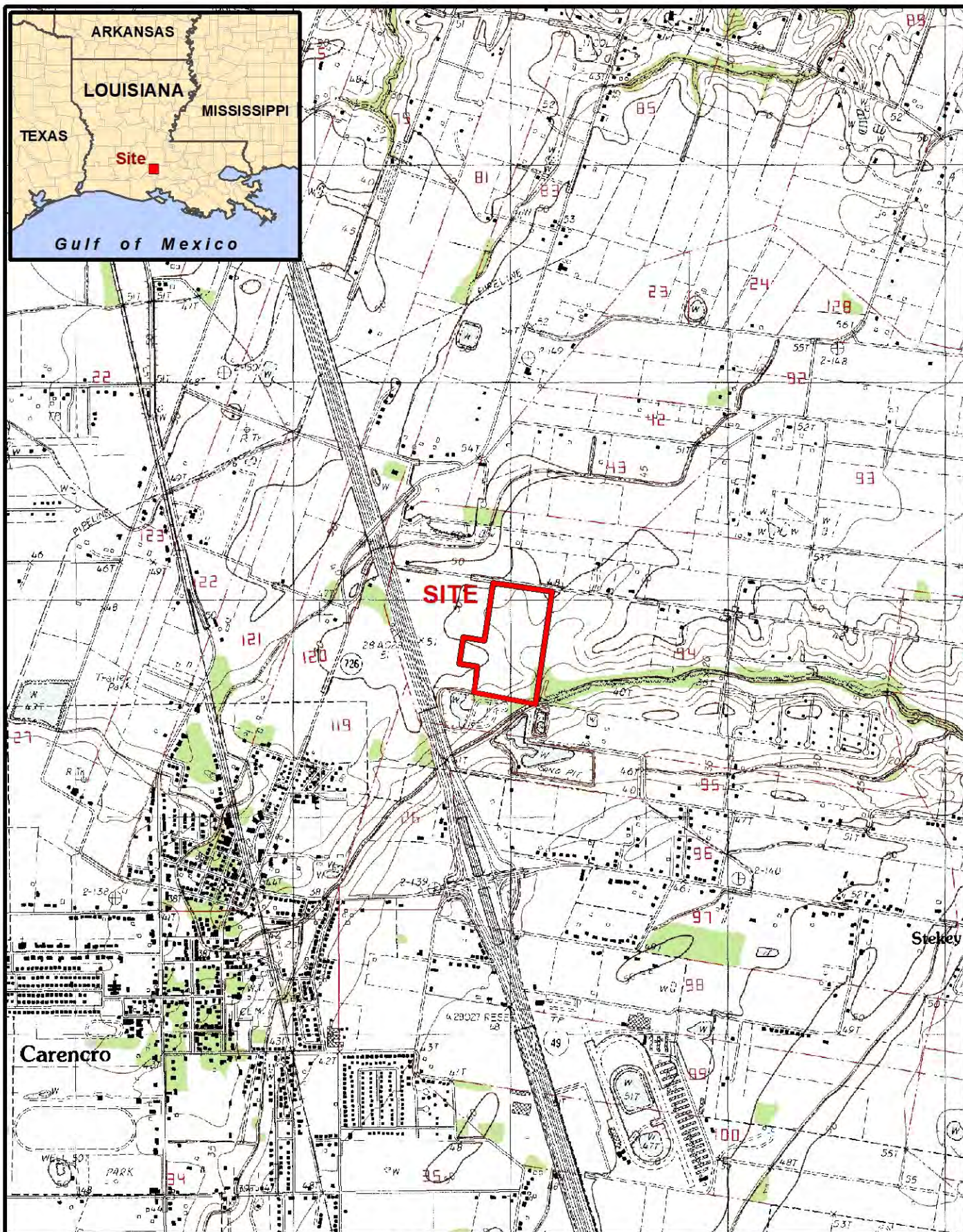
SECTION 6

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Appendix A

Figures



Map Scale: 1:24,000
1 Inch = 2,000 Feet

0 500 1,000 2,000 Feet

FIGURE 1
Vicinity Map

Routine Wetland Delineation
Cenac Site
Lafayette Parish, Louisiana

Date: 03/03/2020
Map ID: CMS2020-001

Source: State of Louisiana; Projection: UTM Z15N, NAD 83; 1:24,000 USGS Quadrangle Map

**Chenier Environmental
Consulting, LLC**



LEGEND

- Project Area
- USGS NHD Stream

FIGURE 2
Existing Conditions Map
 Routine Wetland Delineation
 Cenac Site
 Lafayette Parish, Louisiana

Map Scale: 1:12,000
 1 Inch = 1,000 Feet
 0 250 500 1,000 Feet

Date: 03/03/2020
 Map ID: CMS2020-002

**Chenier Environmental
 Consulting, LLC**

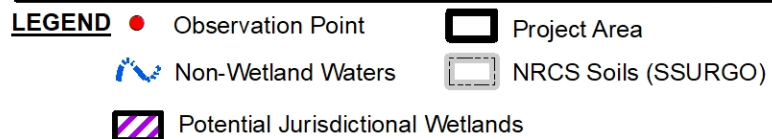
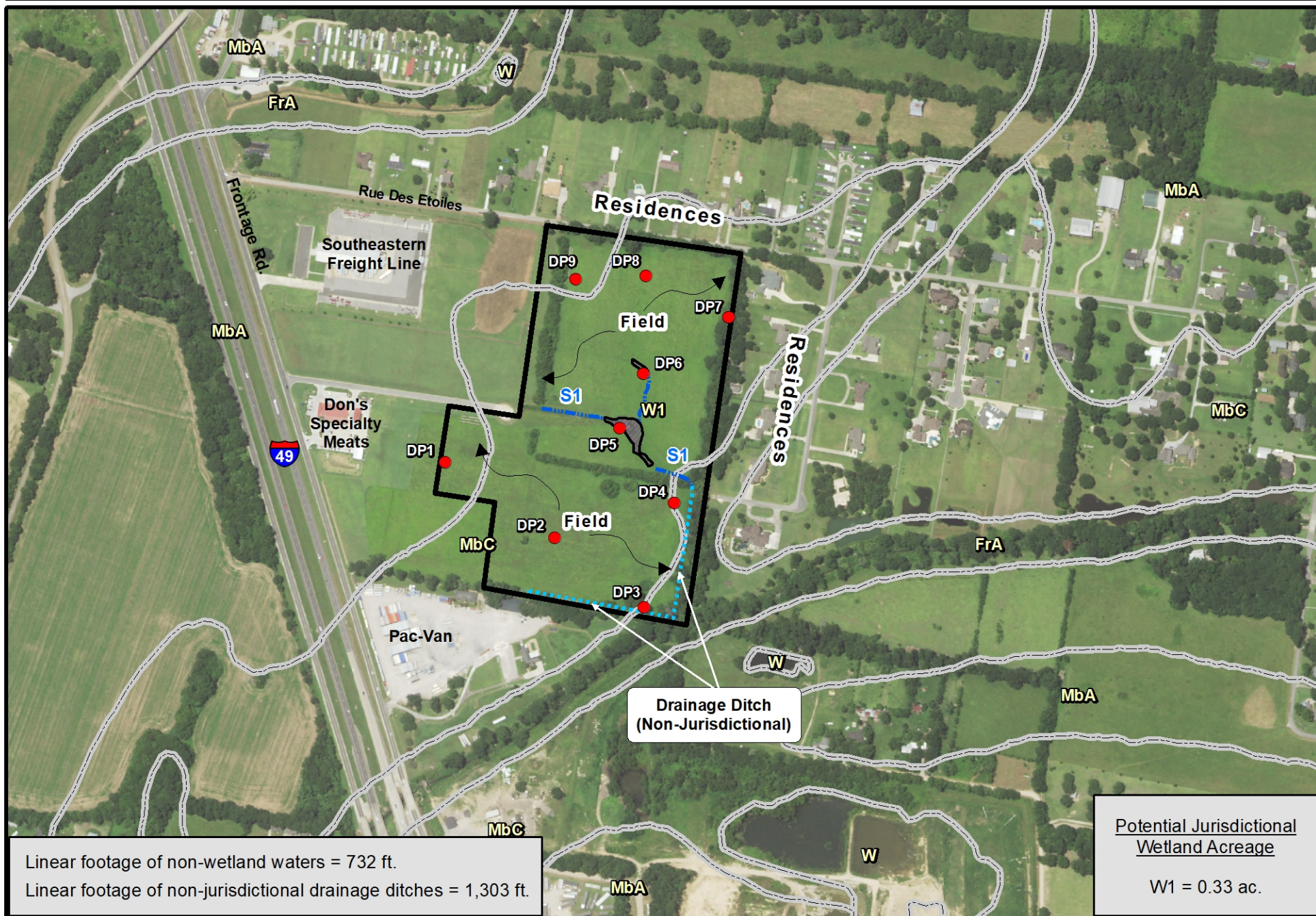
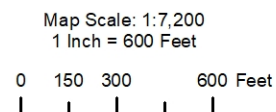
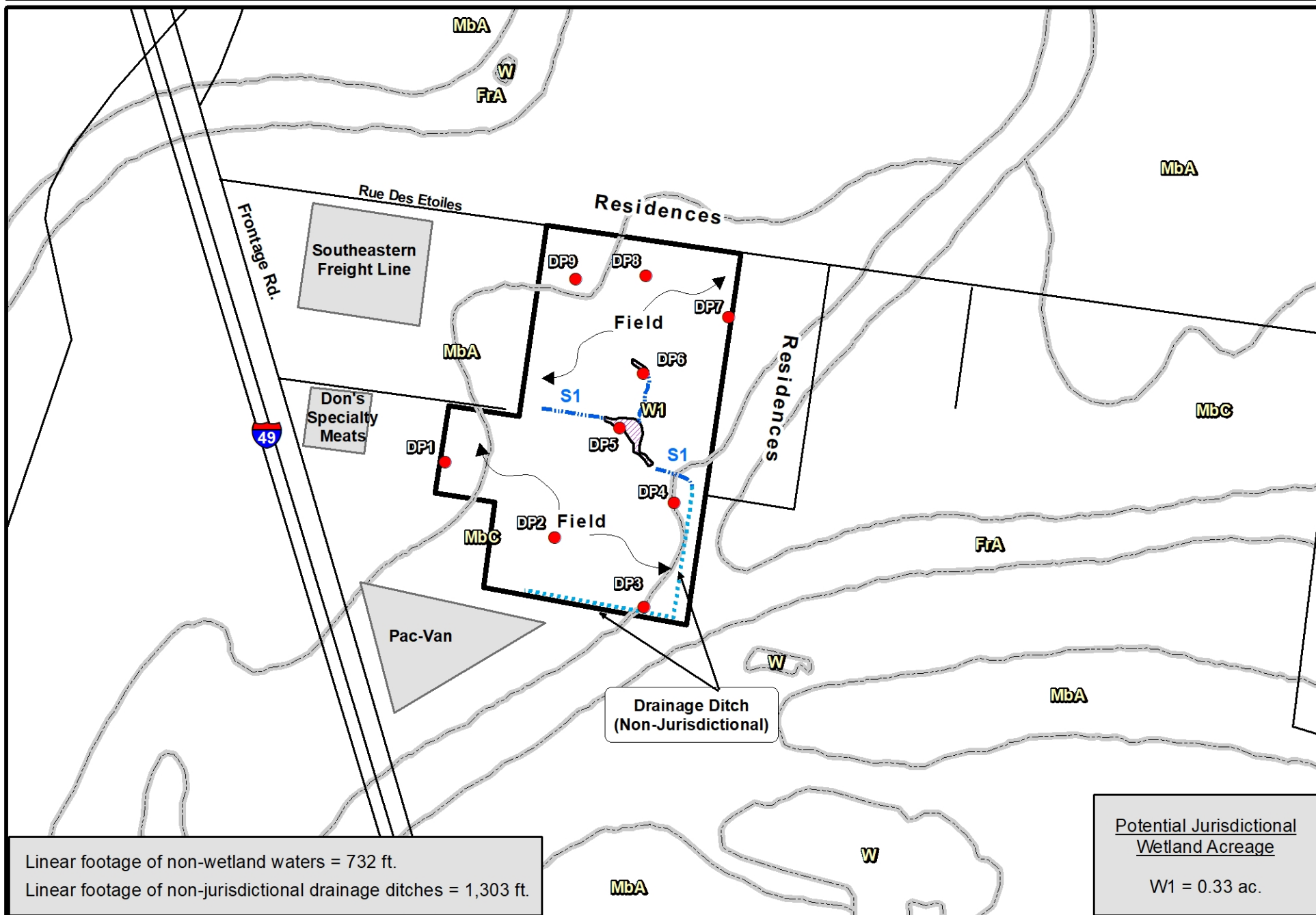


FIGURE 3
Preliminary Jurisdictional Wetlands Map
Routine Wetland Delineation
Cenac Site
Lafayette Parish, Louisiana



Date: 08/31/2020
Map ID: CMS2020-003b

Chenier Environmental Consulting, LLC



LEGEND

- Observation Point
- ▭ Project Area
- ~ Non-Wetland Waters
- ▭ NRCS Soils (SSURGO)
- ▨ Potential Jurisdictional Wetlands

FIGURE 4
Preliminary Jurisdictional Wetlands Map
 Routine Wetland Delineation
 Cenac Site
 Lafayette Parish, Louisiana

Map Scale: 1:7,200
 1 Inch = 600 Feet

0 150 300 600 Feet

Date: 08/31/2020
 Map ID: CMS2020-004b

Chenier Environmental Consulting, LLC

Appendix B
U.S. Army Corps of Engineers Wetland Field Data
Sheets

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP1
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 0-1
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°19'54.61"N Long: 92° 2'7.04"W Datum: WGS84
 Soil Map Unit Name: Memphis silt loam, 0 to 1 percent slopes (MbA) NWI Classification: N/A

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

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: The sample point is located within an agricultural field that has been recently mowed. Sample point is located in the furthest west portion of the site.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: No hydrology indicators observed. Area appears to be a well-drained with hydrological movement to the east, towards the tree line.			

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>Not applicable</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
= Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>1 _____</td> </tr> <tr> <td>FACW species _____</td> <td>2 _____</td> </tr> <tr> <td>FAC species <u>100</u></td> <td>3 <u>300</u></td> </tr> <tr> <td>FACU species _____</td> <td>4 _____</td> </tr> <tr> <td>UPL species _____</td> <td>5 _____</td> </tr> <tr> <td>Column Totals: <u>100</u></td> <td><u>300</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3</u>	Total % Cover of:	Multiply by:	OBL species _____	1 _____	FACW species _____	2 _____	FAC species <u>100</u>	3 <u>300</u>	FACU species _____	4 _____	UPL species _____	5 _____	Column Totals: <u>100</u>	<u>300</u> (B)
Total % Cover of:	Multiply by:																	
OBL species _____	1 _____																	
FACW species _____	2 _____																	
FAC species <u>100</u>	3 <u>300</u>																	
FACU species _____	4 _____																	
UPL species _____	5 _____																	
Column Totals: <u>100</u>	<u>300</u> (B)																	
50 % of total cover: _____ 20 % of total cover: _____																		
Sapling/Shrub Stratum (Plot size: 20 ft radius)																		
1. <u>Not applicable</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
= Total Cover																		
50% of total cover _____ 20 % of total cover: _____																		
Herb Stratum (Plot size: 20 ft radius)																		
1. <u>Festuca perennis</u>	<u>60</u>	<u>Y</u>	<u>FAC</u>															
2. <u>Valerianella radiata</u>	<u>10</u>	<u>N</u>	<u>FAC</u>															
3. <u>Rumex crispus</u>	<u>10</u>	<u>N</u>	<u>FAC</u>															
4. <u>Ranunculus repens</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
5. <u>Erigeron philadelphicus</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
6. <u>Solidago canadensis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
7. <u>Verbena brasiliensis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
8. _____																		
9. _____																		
10. _____																		
11. _____																		
12. _____																		
= Total Cover																		
50 % of total cover: <u>50</u> 20 % of total cover: <u>20</u>																		
Woody Vine Stratum (Plot size: 20 ft radius)																		
1. <u>Not applicable</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
= Total Cover																		
50 % of total cover: _____ 20 % of total cover: _____																		
Remarks: (Include photo numbers here or on a separate sheet.) Photographs 11 and 12																		

Hydrophytic Vegetation Indicators:
☒ 1 – Rapid Test for Hydrophytic Vegetation
☒ 2 – Dominance Test is > 50%
☒ 3 – Prevalence Test is ≤ 3.0¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ☒ No _____

SOIL

Sampling Point: DP1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/2	100					Silt	Dark brown
6-16	10YR 4/3	100					Silt/ clay	Light brown

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

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP2
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 1-5
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°19'51.28"N Long: 92° 2'0.01"W Datum: WGS84
 Soil Map Unit Name: Memphis silt loam, 1 to 5 percent slope (MbC) NWI Classification: N/A

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

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

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: The sample point is located within an agricultural field that has been recently mowed. Sample point is located in the southcentral portion of the site.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: No hydrology indicators observed. Elevation appears to be greater than DP1 and the site appears well-drained with hydrological movement to the northeast, towards the tree line and east ditch.			

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

 Sampling Point **DP2**

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Not applicable</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)	
2. _____				Total Number of Dominant Species Across All Strata: <u>0</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
= Total Cover					
50 % of total cover: _____			20 % of total cover: _____		
Prevalence Index worksheet:					
			Total % Cover of:	Multiply by:	
			OBL species	1	
			FACW species	2	
			FAC species	30	90
			FACU species	70	280
			UPL species	5	
			Column Totals:	100	370 (B)
			Prevalence Index = B/A = <u>3.7</u>		
Hydrophytic Vegetation Indicators:					
<u>1</u> – Rapid Test for Hydrophytic Vegetation					
<u>2</u> – Dominance Test is > 50%					
<u>3</u> – Prevalence Test is ≤ 3.0 ¹					
<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)					
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Definitions of Vegetation Strata:					
Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).					
Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.					
Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.					
Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.					
Woody vine – All woody vines, regardless of height.					
Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>					
Sapling/Shrub Stratum (Plot size: 20 ft radius)					
1. <u>Not applicable</u>					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
= Total Cover					
50% of total cover _____			20 % of total cover: _____		
Herb Stratum (Plot size: 20 ft radius)					
1. <u>Cynodon dactylon</u>	40	Y	FACU		
2. <u>Schizachyrium scoparium</u>	25	Y	FACU		
3. <u>Verbena brasiliensis</u>	10	N	FAC		
4. <u>Allium sp.</u>	5	N	FAC		
5. <u>Solidago canadensis</u>	10	N	FAC		
6. <u>Geranium pratense</u>	5	N	FAC		
7. <u>Rosa multiflora</u>	5	N	FACU		
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
= Total Cover					
50 % of total cover: <u>50</u>			20 % of total cover: <u>20</u>		
Woody Vine Stratum (Plot size: 20 ft radius)					
1. <u>Not applicable</u>					
2. _____					
3. _____					
4. _____					
5. _____					
= Total Cover					
50 % of total cover: _____			20 % of total cover: <u>1</u>		
Remarks: (Include photo numbers here or on a separate sheet.)					
Photographs 13 and 14					

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	100					Silt	Dark brown
3-6	10YR 3/3	100					Silt	
6-16	10YR 3/4	100					Silt/ clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

☐ Polyvalue Below Surface (S8) (LRR S, T, U)☐ Thin Dark Surface (S9) (LRR S, T, U)☐ Loamy Gleyed Matrix (F1) (LRR O)☐ Loamy Gleyed Matrix (F2)☒ Depleted Matrix (F3)☐ Redox Dark Surface (F6)☐ Depleted Dark Surface (F7)☐ Redox Depressions (F8)☐ Marl (F10) (LRR U)☐ Depleted Ochric (F11) (MLRA 151)☐ Iron Manganese Masses (F12) (LRR O, P, T)☐ Umbric Surface (F13) (LRR P, T, U)☐ Delta Ochric (F17) (MLRA 151)☐ Reduced Vertic (F18) (MLRA 150A, 150B)☐ Piedmont Floodplain Soils (F19) (MLRA 149A)☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)☐ 1 cm Muck (A9) (LRR O)☐ 2 cm Muck (A10) (LRR S)☐ Reduced Vertic (F18) (outside MLRA 150A,B)☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)☐ Anomalous Bright Loamy Soils (F20)☐ (MLRA 153B)☐ Red Parent Material (TF2)☐ Very Shallow Dark Surface (TF12)☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP3
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Base of hillslope Local relief (concave, convex, none): None Slope (%): 0-1
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°19'48.09"N Long: 92° 1'55.38"W Datum: WGS84
 Soil Map Unit Name: Frost silt loam, 0 to 1 percent slopes, occasionally flooded (FrA) NWI Classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: The sample point is located within an agricultural field that has been recently mowed. Sample point is located in the southeast corner of the site.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: No hydrology indicators observed. Elevation appears to be less than DP2 and the site appears well-drained with hydrological movement to the south and east, towards the south and east ditches.			

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>Not applicable</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
= Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>30</u></td> <td>1 <u>30</u></td> </tr> <tr> <td>FACW species _____</td> <td>2 _____</td> </tr> <tr> <td>FAC species <u>55</u></td> <td>3 <u>165</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>4 <u>80</u></td> </tr> <tr> <td>UPL species _____</td> <td>5 _____</td> </tr> <tr> <td>Column Totals: <u>105</u></td> <td><u>275</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.62</u>	Total % Cover of:	Multiply by:	OBL species <u>30</u>	1 <u>30</u>	FACW species _____	2 _____	FAC species <u>55</u>	3 <u>165</u>	FACU species <u>20</u>	4 <u>80</u>	UPL species _____	5 _____	Column Totals: <u>105</u>	<u>275</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>30</u>	1 <u>30</u>																	
FACW species _____	2 _____																	
FAC species <u>55</u>	3 <u>165</u>																	
FACU species <u>20</u>	4 <u>80</u>																	
UPL species _____	5 _____																	
Column Totals: <u>105</u>	<u>275</u> (B)																	
50 % of total cover: _____ 20 % of total cover: _____																		
Sapling/Shrub Stratum (Plot size: 20 ft radius)																		
1. <u>Not applicable</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
= Total Cover																		
50% of total cover _____ 20 % of total cover: _____																		
Herb Stratum (Plot size: 20 ft radius)																		
1. <u>Packera glabella</u>	<u>30</u>	<u>Y</u>	<u>OBL</u>															
2. <u>Geranium pretense</u>	<u>25</u>	<u>Y</u>	<u>FAC</u>															
3. <u>Viola sororia</u>	<u>15</u>	<u>N</u>	<u>FAC</u>															
4. <u>Rosa multiflora</u>	<u>15</u>	<u>N</u>	<u>FACU</u>															
5. <u>Galium aparine</u>	<u>5</u>	<u>N</u>	<u>FACU</u>															
6. <u>Rumex crispus</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
7. <u>Trifolium repens</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
8. <u>Festuca perennis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
9. _____																		
10. _____																		
11. _____																		
12. _____																		
= Total Cover																		
50 % of total cover: <u>52.5</u> 20 % of total cover: <u>21</u>																		
Woody Vine Stratum (Plot size: 20 ft radius)																		
1. <u>Not applicable</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
= Total Cover																		
50 % of total cover: _____ 20 % of total cover: <u>1</u>																		

Hydrophytic Vegetation Indicators:
☒ 1 – Rapid Test for Hydrophytic Vegetation
☐ 2 – Dominance Test is > 50%
☐ 3 – Prevalence Test is ≤ 3.0¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

 Photographs 15 and 16

SOIL

Sampling Point: DP3

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/3	100					Silt	Dark brown
3-9	10YR 3/4	100					Silt	Light brown
9-16	10YR 2/2	100					Silt	Black

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

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP4
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°19'52.79"N Long: 92° 1'53.78"W Datum: WGS84
 Soil Map Unit Name: Frost silt loam, 0 to 1 percent slopes, occasionally flooded (FrA) NWI Classification: N/A

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: The sample point is located within an agricultural field that has been recently mowed. Sample point is located in the southeast edge of the site.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs		
Remarks: No hydrology indicators observed. Elevation appears to be less than DP2 but similar to DP3. The site appears well-drained with hydrological movement to the east, towards the east ditch.		

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>20 ft radius</u>)				Dominance Test worksheet:
1. <u>Not applicable</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
			= Total Cover	
50 % of total cover: _____		20 % of total cover: _____		
Sapling/Shrub Stratum (Plot size: <u>20 ft radius</u>)				Prevalence Index worksheet:
1. <u>Not applicable</u>				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ 1 _____
3. _____				FACW species _____ 2 _____
4. _____				FAC species <u>115</u> 3 <u>345</u>
5. _____				FACU species _____ 4 _____
6. _____				UPL species _____ 5 _____
7. _____				Column Totals: <u>115</u> <u>345</u> (B)
8. _____				
			= Total Cover	Prevalence Index = B/A = <u>3</u>
50% of total cover _____		20 % of total cover: _____		
Herb Stratum (Plot size: <u>20 ft radius</u>)				Hydrophytic Vegetation Indicators:
1. <u>Valerianella radiata</u>	<u>65</u>	<u>Y</u>	<u>FAC</u>	<input checked="" type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation
2. <u>Trifolium repens</u>	<u>25</u>	<u>N</u>	<u>FAC</u>	<input checked="" type="checkbox"/> 2 – Dominance Test is > 50%
3. <u>Ranunculus repens</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	<input checked="" type="checkbox"/> 3 – Prevalence Test is ≤ 3.0 ¹
4. <u>Festuca perennis</u>	<u>15</u>	<u>N</u>	<u>FAC</u>	_____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Verbena brasiliensis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
6. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____				Definitions of Vegetation Strata:
8. _____				Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
9. _____				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
10. _____				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
11. _____				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
12. _____				Woody vine – All woody vines, regardless of height.
			= Total Cover	
50 % of total cover: <u>57.5</u>		20 % of total cover: <u>23</u>		
Woody Vine Stratum (Plot size: <u>20 ft radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. <u>Not applicable</u>				
2. _____				
3. _____				
4. _____				
5. _____				
			= Total Cover	
50 % of total cover: _____		20 % of total cover: <u>1</u>		
Remarks: (Include photo numbers here or on a separate sheet.)				
Photographs 17 and 18				

SOIL

Sampling Point: DP4

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	100					Silt	Dark brown
3-11	10YR 3/3	100					Silt	Lighter Brown
11-16	10YR 2/2	100					Silt	Dark Brown/ Almost Black

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

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP5
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Bottom of hillslope Local relief (concave, convex, none): Concave Slope (%): 1-5
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°19'56.23"N Long: 92° 1'56.58"W Datum: WGS84
 Soil Map Unit Name: Memphis silt loam, 1 to 5 percent slope (Mbc) NWI Classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: The sample point is located on the edge of an ephemeral stream within a agricultural field that has been recently mowed. Sample point is located in the central portion of the site.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input checked="" type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: Hydrology indicators observed. Site is located at the base of a hillslope, beginning at an ephemeral stream. It appears, hydrological movement is to the southeast. Data point was taken within 5 feet of surface water.			

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Not applicable</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
= Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>1 _____</td> </tr> <tr> <td>FACW species _____</td> <td>2 _____</td> </tr> <tr> <td>FAC species <u>95</u></td> <td>3 <u>285</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>4 <u>20</u></td> </tr> <tr> <td>UPL species _____</td> <td>5 _____</td> </tr> <tr> <td>Column Totals: <u>100</u></td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.05</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	1 _____	FACW species _____	2 _____	FAC species <u>95</u>	3 <u>285</u>	FACU species <u>5</u>	4 <u>20</u>	UPL species _____	5 _____	Column Totals: <u>100</u>	_____ (B)	Prevalence Index = B/A = <u>3.05</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	1 _____																			
FACW species _____	2 _____																			
FAC species <u>95</u>	3 <u>285</u>																			
FACU species <u>5</u>	4 <u>20</u>																			
UPL species _____	5 _____																			
Column Totals: <u>100</u>	_____ (B)																			
Prevalence Index = B/A = <u>3.05</u>																				
50 % of total cover: _____ 20 % of total cover: _____																				
Sapling/Shrub Stratum (Plot size: 20 ft radius)																				
1. <u>Not applicable</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
= Total Cover																				
50 % of total cover _____ 20 % of total cover: _____																				
Herb Stratum (Plot size: 20 ft radius)																				
1. <u>Ranunculus repens</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 – Dominance Test is > 50% <input checked="" type="checkbox"/> 3 – Prevalence Test is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Rumex crispus</u>	<u>30</u>	<u>N</u>	<u>FAC</u>																	
3. <u>Geranium pretense</u>	<u>10</u>	<u>N</u>	<u>FAC</u>																	
4. <u>Festuca perennis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>																	
5. <u>Galium aparine</u>	<u>5</u>	<u>N</u>	<u>FACU</u>																	
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
= Total Cover																				
50 % of total cover: <u>50</u> 20 % of total cover: <u>20</u>																				
Woody Vine Stratum (Plot size: 20 ft radius)																				
1. <u>Not applicable</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
= Total Cover																				
50 % of total cover: _____ 20 % of total cover: <u>1</u>																				
Remarks: (Include photo numbers here or on a separate sheet.) Photographs 19 and 20																				

SOIL

Sampling Point: DP5

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	95	10YR 4/3	5	D	M	Silt	Brown with reddish streaking
3-7	10YR 2/2	100					Silt	Dark Brown
7-16	10YR 3/2	100					Silt	

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

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No ☐

Remarks:

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP6
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 1-5
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°19'58.61"N Long: 92° 1'55.34"W Datum: WGS84
 Soil Map Unit Name: Memphis silt loam, 1 to 5 percent slope (MbC) NWI Classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: The sample point is located within an agricultural field that has been recently mowed. Sample point is located in the central portion of the site.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs		
Remarks: Hydrology indicators observed. Site is located at the base of a hillslope, beginning at an ephemeral stream. It appears, hydrological movement is to the south and connects to DP5 site. Data point was taken within 5 feet of surface water.		

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Not applicable</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
= Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>1 _____</td> </tr> <tr> <td>FACW species _____</td> <td>2 _____</td> </tr> <tr> <td>FAC species <u>100</u></td> <td>3 <u>300</u></td> </tr> <tr> <td>FACU species _____</td> <td>4 _____</td> </tr> <tr> <td>UPL species _____</td> <td>5 _____</td> </tr> <tr> <td>Column Totals: <u>100</u></td> <td><u>300</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	1 _____	FACW species _____	2 _____	FAC species <u>100</u>	3 <u>300</u>	FACU species _____	4 _____	UPL species _____	5 _____	Column Totals: <u>100</u>	<u>300</u> (B)	Prevalence Index = B/A = <u>3</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	1 _____																			
FACW species _____	2 _____																			
FAC species <u>100</u>	3 <u>300</u>																			
FACU species _____	4 _____																			
UPL species _____	5 _____																			
Column Totals: <u>100</u>	<u>300</u> (B)																			
Prevalence Index = B/A = <u>3</u>																				
50 % of total cover: _____ 20 % of total cover: _____																				
Sapling/Shrub Stratum (Plot size: 20 ft radius)																				
1. <u>Not applicable</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
= Total Cover																				
50% of total cover _____ 20 % of total cover: _____																				
Herb Stratum (Plot size: 20 ft radius)																				
1. <u>Dichondra micrantha</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>																	
2. <u>Allium sp.</u>	<u>5</u>	<u>N</u>	<u>FAC</u>																	
3. <u>Verbena brasiliensis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>																	
4. <u>Festuca perennis</u>	<u>35</u>	<u>Y</u>	<u>FAC</u>																	
5. <u>Rumex crispus</u>	<u>5</u>	<u>N</u>	<u>FAC</u>																	
6. <u>Solidago canadensis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>																	
7. <u>Valerianella radiata</u>	<u>5</u>	<u>N</u>	<u>FAC</u>																	
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
= Total Cover																				
50 % of total cover: <u>50</u> 20 % of total cover: <u>20</u>																				
Woody Vine Stratum (Plot size: 20 ft radius)																				
1. <u>Not applicable</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
= Total Cover																				
50 % of total cover: _____ 20 % of total cover: <u>1</u>																				
Remarks: (Include photo numbers here or on a separate sheet.) Photographs 21 and 22																				

SOIL

Sampling Point: DP6

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10YR 3/2	100					Silt	Dark brown/ moist
5-16	10YR 3/3	100					Silt	

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

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP7
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 1-5
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°20'1.14"N Long: 92° 1'50.85"W Datum: WGS84
 Soil Map Unit Name: Memphis silt loam, 1 to 5 percent slope (MbC) NWI Classification: N/A

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

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: The sample point is located on the border of an agricultural field that has been recently mowed. Sample point is located in the northeast corner of the site, inside the tree line.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: No hydrology indicators observed. Elevation appears to be greater than DP5 and DP6. The site appears well-drained with hydrological movement to the south, towards the east ditch.			

Tree Stratum (Plot size: <u>20 ft radius</u>)				Dominance Test worksheet:	
1. <u>Quercus nigra</u>	Absolute % Cover 50	Dominant Species? Y	Indicator Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)	
2. <u>Ligustrum japonicum</u>	20	N	FAC	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
	<u>70</u>	= Total Cover			
50 % of total cover: <u>35</u>	20 % of total cover: <u>14</u>				
Sapling/Shrub Stratum (Plot size: <u>20 ft radius</u>)				Prevalence Index worksheet:	
1. <u>Ligustrum japonicum</u>	60	Y	FAC	Total % Cover of: _____ Multiply by: _____	
2. <u>Quercus nigra</u>	10	N	FAC	OBL species _____ 1 _____	
3. _____				FACW species _____ 2 _____	
4. _____				FAC species <u>210</u> 3 <u>630</u>	
5. _____				FACU species <u>5</u> 4 <u>20</u>	
6. _____				UPL species _____ 5 _____	
7. _____				Column Totals: <u>215</u> <u>650</u> (B)	
8. _____					
	<u>70</u>	= Total Cover		Prevalence Index = B/A = <u>3.02</u>	
50 % of total cover: <u>35</u>	20 % of total cover: <u>14</u>				
Herb Stratum (Plot size: <u>20 ft radius</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Galium aparine</u>	5	N	FACU	<input checked="" type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation	
2. <u>Rosa multiflora</u>	5	N	FAC	<input checked="" type="checkbox"/> 2 – Dominance Test is > 50%	
3. <u>Quercus nigra</u>	15	N	FAC	<input checked="" type="checkbox"/> 3 – Prevalence Test is ≤ 3.0 ¹	
4. <u>Ligustrum japonicum</u>	25	Y	FAC	_____ Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____				_____	
6. _____				_____	
7. _____				_____	
8. _____				_____	
9. _____				_____	
10. _____				_____	
11. _____				_____	
12. _____				_____	
	<u>50</u>	= Total Cover		_____	
50 % of total cover: <u>25</u>	20 % of total cover: <u>10</u>				
Woody Vine Stratum (Plot size: <u>20 ft radius</u>)				Definitions of Vegetation Strata:	
1. <u>Vitis rotundifolia</u>	25	Y	FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
2. _____				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
3. _____				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
4. _____				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	
5. _____				Woody vine – All woody vines, regardless of height.	
	<u>25</u>	= Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
50 % of total cover: <u>12.5</u>	20 % of total cover: <u>5</u>				
Remarks: (Include photo numbers here or on a separate sheet.)					
Photographs 23 and 24					

SOIL

Sampling Point: DP7

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	100					Silt loam	Dark brown/ moist
3-6	10YR 4/2	100					Silt loam	
6-16	10YR 4/3	100					Silt loam	

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

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP8
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 1-5
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°20'3.00"N Long: 92° 1'55.19"W Datum: WGS84
 Soil Map Unit Name: Memphis silt loam, 1 to 5 percent slope (MbC) NWI Classification: N/A

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

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: The sample point is located within an agricultural field that has been recently mowed. Sample point is located in the northcentral portion of the site.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: No hydrology indicators observed. Elevation appears to be greater than DP5 and DP6, but similar to DP1. The site appears well-drained with hydrological movement to the north, towards the north ditch.			

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>Not applicable</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
50 % of total cover: _____		20 % of total cover: _____		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>1 _____</td> </tr> <tr> <td>FACW species _____</td> <td>2 _____</td> </tr> <tr> <td>FAC species <u>98</u></td> <td>3 <u>294</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>4 <u>20</u></td> </tr> <tr> <td>UPL species <u>2</u></td> <td>5 <u>10</u></td> </tr> <tr> <td>Column Totals: <u>105</u></td> <td><u>324</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.08</u>	Total % Cover of:	Multiply by:	OBL species _____	1 _____	FACW species _____	2 _____	FAC species <u>98</u>	3 <u>294</u>	FACU species <u>5</u>	4 <u>20</u>	UPL species <u>2</u>	5 <u>10</u>	Column Totals: <u>105</u>	<u>324</u> (B)
Total % Cover of:	Multiply by:																	
OBL species _____	1 _____																	
FACW species _____	2 _____																	
FAC species <u>98</u>	3 <u>294</u>																	
FACU species <u>5</u>	4 <u>20</u>																	
UPL species <u>2</u>	5 <u>10</u>																	
Column Totals: <u>105</u>	<u>324</u> (B)																	
= Total Cover																		
Sapling/Shrub Stratum (Plot size: 20 ft radius)																		
1. <u>Not applicable</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
50 % of total cover _____		20 % of total cover: _____		Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 – Dominance Test is > 50% <input checked="" type="checkbox"/> 3 – Prevalence Test is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)														
= Total Cover																		
Herb Stratum (Plot size: 20 ft radius)																		
1. <u>Festuca perennis</u>	<u>70</u>	<u>Y</u>	<u>FAC</u>															
2. <u>Trifolium repens</u>	<u>10</u>	<u>N</u>	<u>FAC</u>															
3. <u>Valerianella radiata</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
4. <u>Solidago canadensis</u>	<u>2</u>	<u>N</u>	<u>FAC</u>															
5. <u>Galium aparine</u>	<u>5</u>	<u>N</u>	<u>FACU</u>															
6. <u>Ranunculus repens</u>	<u>3</u>	<u>N</u>	<u>FAC</u>															
7. <u>Allium sp.</u>	<u>2</u>	<u>N</u>	<u>FAC</u>															
8. <u>Rumex crispus</u>	<u>3</u>	<u>N</u>	<u>FAC</u>															
9. <u>Daucus carota</u>	<u>2</u>	<u>N</u>	<u>UPL</u>															
10. <u>Erigeron philadelphicus</u>	<u>3</u>	<u>N</u>	<u>FAC</u>															
11. _____																		
12. _____																		
50 % of total cover: <u>52.5</u>		20 % of total cover: <u>21</u>		Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.														
= Total Cover																		
Woody Vine Stratum (Plot size: 20 ft radius)																		
1. <u>Not applicable</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
50 % of total cover: _____		20 % of total cover: <u>1</u>																
= Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																		
Photographs 25 and 26																		

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	7.5YR 3/2	100					Silt	
5-9	10YR 3/2	100					Silt/ clay	
9-16	10YR 3/3	100					Silt/ clay	Streaking

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

☐ Polyvalue Below Surface (S8) (LRR S, T, U)☐ Thin Dark Surface (S9) (LRR S, T, U)☐ Loamy Gleyed Matrix (F1) (LRR O)☐ Loamy Gleyed Matrix (F2)☒ Depleted Matrix (F3)☐ Redox Dark Surface (F6)☐ Depleted Dark Surface (F7)☐ Redox Depressions (F8)☐ Marl (F10) (LRR U)☐ Depleted Ochric (F11) (MLRA 151)☐ Iron Manganese Masses (F12) (LRR O, P, T)☐ Umbric Surface (F13) (LRR P, T, U)☐ Delta Ochric (F17) (MLRA 151)☐ Reduced Vertic (F18) (MLRA 150A, 150B)☐ Piedmont Floodplain Soils (F19) (MLRA 149A)☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)☐ 1 cm Muck (A9) (LRR O)☐ 2 cm Muck (A10) (LRR S)☐ Reduced Vertic (F18) (outside MLRA 150A,B)☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)☐ Anomalous Bright Loamy Soils (F20)☐ (MLRA 153B)☐ Red Parent Material (TF2)☐ Very Shallow Dark Surface (TF12)☐ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: One Acadiana/ Cenac Park City/County: Carencro/ Lafayette Sampling Date: 02/14/2020
 Applicant/Owner: One Acadiana State: Louisiana Sampling Point: DP9
 Investigator(s): Aaron Bass; Donnie Day Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Top of hillslope Local relief (concave, convex, none): None Slope (%): 0-1
 Subregion (LRR or MLRA): MLRA 134 Lat: 30°20'2.90"N Long: 92° 1'58.84"W Datum: WGS84
 Soil Map Unit Name: Memphis silt loam, 0 to 1 percent slopes (MbA) NWI Classification: N/A

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

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: The sample point is located within an agricultural field that has been recently mowed. Sample point is located in the northwest corner of the site.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS 7.5-minute topographic map, aerial photographs			
Remarks: No hydrology indicators observed. Elevation appears to be greater than DP5 and DP6, but similar to DP1 and DP8. The site appears well-drained with hydrological movement to the southeast, towards DP6 and the east ditch.			

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>Not applicable</u>				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
= Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>1 _____</td> </tr> <tr> <td>FACW species _____</td> <td>2 _____</td> </tr> <tr> <td>FAC species <u>99</u></td> <td>3 <u>297</u></td> </tr> <tr> <td>FACU species <u>3</u></td> <td>4 <u>12</u></td> </tr> <tr> <td>UPL species _____</td> <td>5 _____</td> </tr> <tr> <td>Column Totals: <u>102</u></td> <td><u>309</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.03</u>	Total % Cover of:	Multiply by:	OBL species _____	1 _____	FACW species _____	2 _____	FAC species <u>99</u>	3 <u>297</u>	FACU species <u>3</u>	4 <u>12</u>	UPL species _____	5 _____	Column Totals: <u>102</u>	<u>309</u> (B)
Total % Cover of:	Multiply by:																	
OBL species _____	1 _____																	
FACW species _____	2 _____																	
FAC species <u>99</u>	3 <u>297</u>																	
FACU species <u>3</u>	4 <u>12</u>																	
UPL species _____	5 _____																	
Column Totals: <u>102</u>	<u>309</u> (B)																	
50 % of total cover: _____ 20 % of total cover: _____																		
Sapling/Shrub Stratum (Plot size: 20 ft radius)																		
1. <u>Not applicable</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
= Total Cover																		
50 % of total cover _____ 20 % of total cover: _____																		
Herb Stratum (Plot size: 20 ft radius)																		
1. <u>Geranium pretense</u>	<u>65</u>	<u>Y</u>	<u>FAC</u>															
2. <u>Trifolium repens</u>	<u>15</u>	<u>N</u>	<u>FAC</u>															
3. <u>Ranunculus repens</u>	<u>2</u>	<u>N</u>	<u>FAC</u>															
4. <u>Galium aparine</u>	<u>3</u>	<u>N</u>	<u>FACU</u>															
5. <u>Erigeron philadelphicus</u>	<u>2</u>	<u>N</u>	<u>FAC</u>															
6. <u>Rumex crispus</u>	<u>5</u>	<u>N</u>	<u>FAC</u>															
7. <u>Festuca perennis</u>	<u>10</u>	<u>N</u>	<u>FAC</u>															
8. _____																		
9. _____																		
10. _____																		
11. _____																		
12. _____																		
= Total Cover																		
50 % of total cover: <u>51</u> 20 % of total cover: <u>20.4</u>																		
Woody Vine Stratum (Plot size: 20 ft radius)																		
1. <u>Not applicable</u>																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
= Total Cover																		
50 % of total cover: _____ 20 % of total cover: <u>1</u>																		
Remarks: (Include photo numbers here or on a separate sheet.) Photographs 27 and 28				Hydrophytic Vegetation Present? Yes <u>X</u> No _____														
				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 – Dominance Test is > 50% <input checked="" type="checkbox"/> 3 – Prevalence Test is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.																		

SOIL

Sampling Point: DP9

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10YR 3/2	100					Silt	Dark brown/ moist
5-11	10YR 4/3	100					Silt	
11-16	10YR 4/4	100					Silt	

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

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

Appendix C

Photographic Documentation



1. Entrance to site facing east down Rue de Cotton Road



2. Southwestern part of site



3. Storm drain adjacent to Rue de Cotton Road



4. Overgrown part of S1 at the end of Rue de Cotton Road



5. Landscape view of north side of site



6. Northerly view along the west site boundary



7. Southerly view across the middle of the site from the north boundary



8. Drainage ditch along the east edge of the site



9. Overview of the south side of the site



10. Ditch along the southern edge of the site



11. DP1 landscape view



12. DP1 soils



13. DP2 landscape view



14. DP2 soils



15. DP3 landscape view



16. DP3 soils



17. DP4 landscape view



18. DP4 soils



19. DP5 landscape view



20. DP5 soils



21. DP6 landscape view



22. DP6 soils



23. DP7



24. DP7 soils



25. DP8 landscape view



26. DP8 soils



27. DP9 landscape view



28. DP9 soils