

# Exhibit EE. Daly Farms Site Wetlands Delineation Report



## Daly Farms Site Wetlands Delineation Report

Wetland Delineation Report

## Daly Farms Site St. Landry Parish, Louisiana

Prepared for

**One Acadiana** 

May 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 111-acre site located off Highway 182 near Sunset, St. Landry 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 site visits on April 18 and April 21, 2020 to identify and delineate potential WOUS features, including wetlands, which occur within the proposed project area. The features identified during the site visits are described in this report.

## 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; St. Landry 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 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 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 were not included in the National Wetlands Inventory List of Plants that Occur in Wetlands 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.

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.				

TABLE 1 Definitions for Wetland Indicator Status

Soil information was obtained from the Natural Resources Conservation Service (NRCS) Web Soil Survey for St. Landry 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).

## 3.1 Location

The site is located near Sunset, St. Landry Parish, Louisiana (Figure 1). The site is irregularly shaped and is approximately 111 acres (Figure 3). The Site is bordered by Highway 78 to the north; residences and farmland to the south; Highway 182 and farmland to the east; and Bayou Bourbeaux and forested land to the west. The site can be accessed off Highway 178 or Highway 182.

St. Landry Parish is in the southwest 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 (Daigle et al. 2006). The specific soil types that underly the Site are discussed below.

## 3.3 Hydrology

The Site is in the Mississippi River Basin. The Hydrologic Unit Code (HUC) for this area is 08080102. The USFWS National Wetland Inventory (NWI) Map depicts no wetlands on the site. Bayou Bourbeaux and two smaller streams are depicted along the western boundary of the site. A stream is also depicted in the forested area in the southeast corner of the site. According the FEMA National Flood Insurance Hazard website, the Site is located within Zone X and ground elevation ranges from 44 to 55 feet above mean sea level (FEMA <u>https://hazards-fema.maps.arcgis.com</u>).

The site slopes gradually away from a slight ridge that extends from the center of the eastern boundary to the center of the property. The site is well-drained with some water flowing towards the southeastern corner of the property into the stream that exits near the southeastern corner of the site. Most of the site drains westward into stormwater drains that exist along the western edge of the agricultural field and drain west into Bayou Bourbeaux.

## 3.4 Soils

The soil series located within St. Landry Parish are described by the U.S. Department of Agriculture (USDA), Natural Resources Conservation Service on the Web Soil Survey (<u>http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx</u>). According to the Web Soil Survey, the Site is underlain primarily by Coteau silt loam (Co; Cp) and Frost silt loam (FrA) with small areas of Calhoon silt loam (Cc).

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

#### 3.4.1 Coteau silt loam

The Coteau series consists of somewhat poorly drained, moderately slowly permeable soils that formed under grassland vegetation in loess deposits more than 4 feet thick. These soils are on slightly convex interfluve positions. Slopes range from 0 to 3 percent. The upper three horizons of a representative profile of a Coteau Silt Loam soil consist of:

- 0 to 5 inches; dark grayish brown (10YR 4/2) silt loam; few fine faint light brownish gray (10YR 6/2) mottles; weak fine granular structure.
- 5 to 12 inches; dark yellowish brown (10YR 3/4) silty clay loam; common medium faint dark brown (10YR 4/3 and 7.5YR 4/4) masses of iron accumulation; weak medium prismatic structure that parts to moderate medium subangular blocky.
- 12 to 22 inches; brown (10YR 5/3) silty clay loam; moderate coarse and medium prismatic structure that parts to moderate medium subangular blocky.

Coteau silt loam is included on the 2014 National Hydric Soils List for St. Landry 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. The upper three horizons of a representative profile of a Frost Silt Loam soil consist of:

- 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 St. Landry Parish (NRCS 2018).

#### 3.4.3 Calhoun silt loam

The Calhoun series consists of level, poorly drained, slowly permeable soils. These soils formed from loess or loess-like material with low sand content. They mainly are at low local elevations on Pleistocene age terraces, and less commonly on flood plains. Slopes range from 0 to 1 percent. The upper three horizons of a representative profile of a Calhoun Silt Loam soil consist of:

- 0 to 3 inches; dark brown (10YR 4/3) silt loam; moderate fine granular structure
- 3 to 12 inches; light brownish gray (10YR 6/2) silt loam; common fine distinct light yellowish brown (10YR 6/4) mottles

 12 to 17 inches; light gray (10YR 7/2) silt loam; common fine distinct yellowish brown (10YR 5/4) mottles

Calhoun silt loam is included on the 2014 National Hydric Soils List for St. Landry Parish (NRCS 2018).

## 3.5 Vegetation and Land Use

The site and surrounding area are primarily rural agricultural land with scattered residences. The site was recently plowed. A narrow tree line borders the site along Highway 78 and Highway 182. A broader band of hardwood forest runs along the south and west edges of the site. Based on a review of historical topographic maps, the site appears to have been agricultural land since at least the 1950s.

## 4.1 Wetlands and WOUS

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

#### 4.1.1 Wetland Habitat Descriptions

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

**W1** is a an approximately 0.1-acre palustrine emergent (PEM) wetland located adjacent to Bayou Bourbeaux. The wetland has formed in an area encircled with spoil material deposited during the dredging of Bayou Bourbeaux and has no apparent connection to Waters of the U.S. Dominant vegetation (DP7) consists of FAC and OBL species including: Water Oak (*Quercus nigra-FAC*), Chinese Tallow (*Triadica sebifera-FAC*), Alligator Weed (*Alternanthera philoxeroides-OBL*), and Roundleaf Greenbriar (*Smilax rotundifolia*).

- Primary wetland hydrology indicators present include saturation, water-stained leaves, and a thick much surface.
- The primary hydric soil indicators include a depleted matrix and iron manganese masses.

W1 appears to be an "isolated wetland" and not subject to USACE jurisdiction under the Clean Water Act.

#### 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 drains the southeastern portion of the site. It originates in the agricultural field and meanders southeasterly through the forested corner of the site before flowing beneath Highway 182. S1 has a top-of-bank (TOB) height of approximately 2.5-5 feet and a TOB width of approximately 8-15 feet. Water depth was approximately 6 inches.
- **S2, S3, and S4** are ephemeral streams that receive surface runoff from the agricultural field via drainage pipes installed along the western edge of the site. These streams are deeply incised "gulleys" that have formed in the loess soils along Bayou Bourbeaux's natural levee. TOB widths range from 5-7 feet and TOB heights range from 3-6 feet. No standing water was present.
- **S5** (Bayou Bourbeaux) is a perennial stream that has a TOB width of approximately 30 feet and a TOB height of approximately 10 feet. Approximately 6-8 inches of standing water was present.

## 4.2 Upland Feature Descriptions

The site is a typical agricultural field surrounded by a tree line of bottomland hardwood forest. The points along the interior have no herbaceous species present due to recent plowing of the field. This includes points: DP2, DP3, DP4, DP6, DP8, DP9, DP10, and DP11.

The points found within the forest include DP1 and DP5. Dominant vegetation consisted of mostly FAC and FACU species, typical species for the site include: Water Oak (*Quercus nigra*), Hackberry (*Celtis occidentalis*), Chinese Privet (*Ligustrum sinense*), Virginia Creeper (*Parthenocissus quinquefolia*), Poison Ivy (*Toxicodendron radicans*), and Roundleaf Greenbriar (*Smilax rotundifolia*) (see Appendix A, Figures 3 and 4).

## SECTION 5 Conclusion

This report summarizes the results of the wetland delineation conducted in April 2020 on an approximately 111-acre site in Sunset, St. Landry Parish, Louisiana. This report identifies no jurisdictional wetlands on the site. Four ephemeral streams and one perennial stream exist on the site.

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: Bayou Bourbeaux runs along the western edge 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 0.06 acres of non-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: Not applicable

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.

Response: see #3

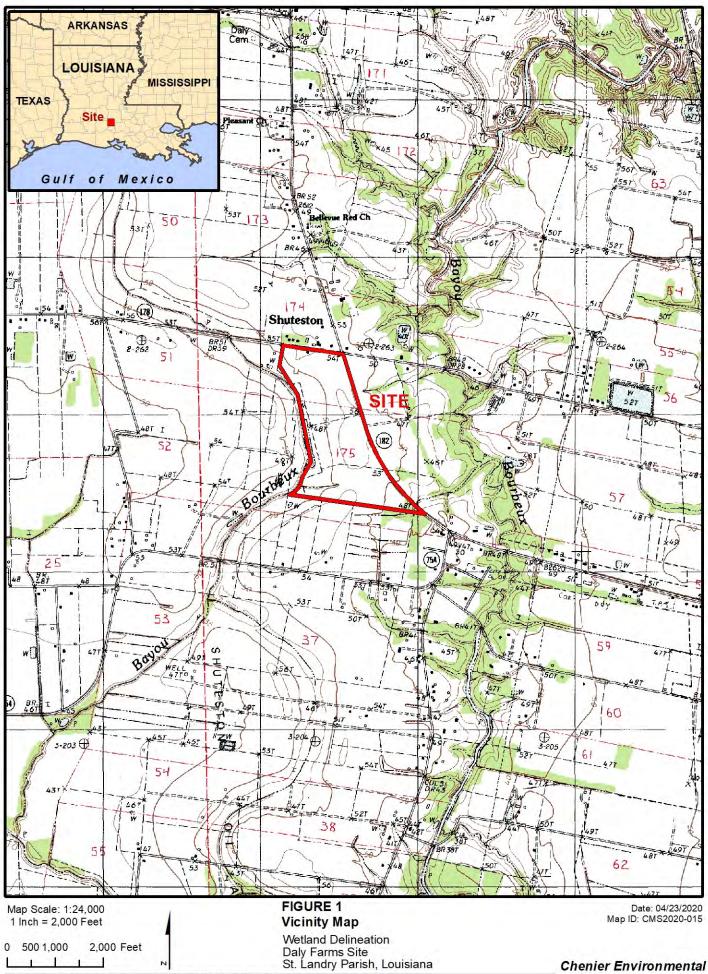
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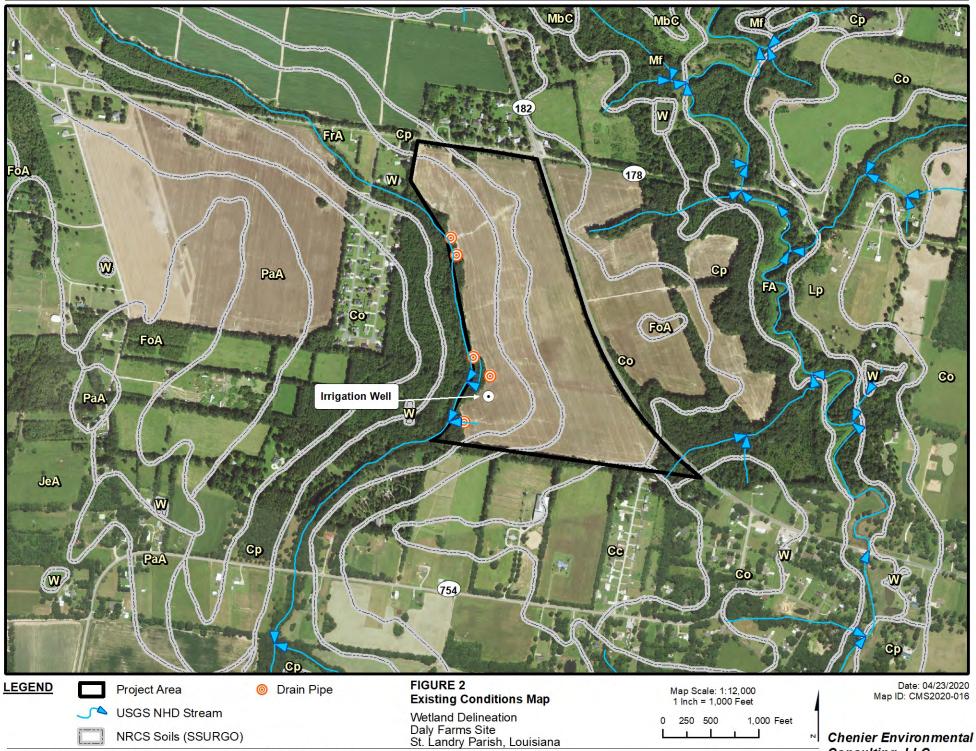
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## Appendix A Figures



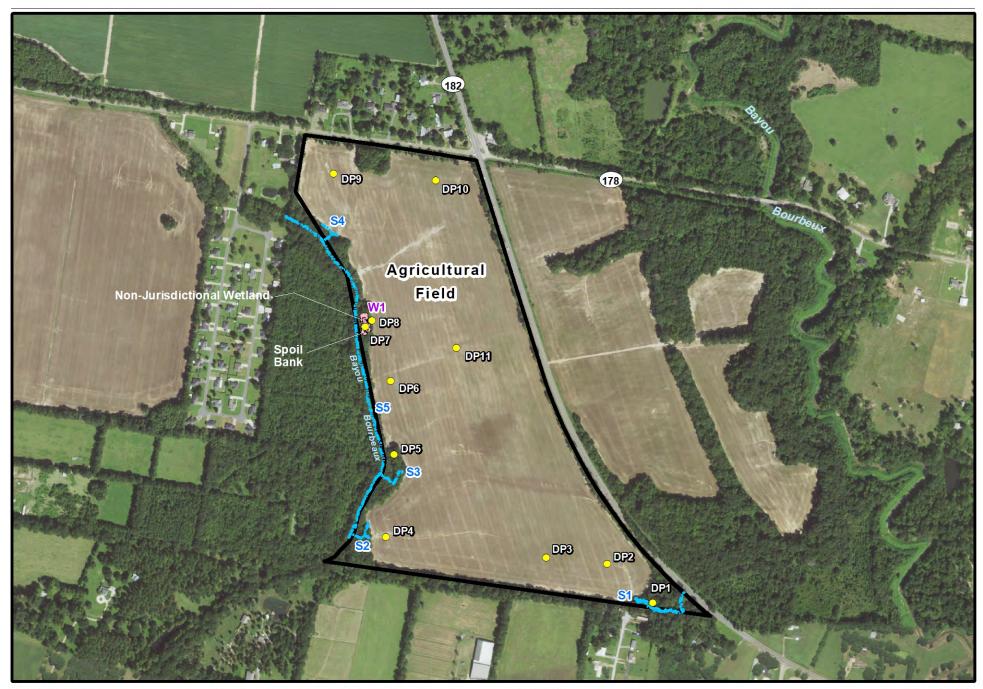
Source: State of Louisiana; Projection: UTM Z15N, NAD 83; 1:24,000 USGS Quadrangle Map

Chenier Environmental Consulting, LLC



Source: State of Louisiana, St. Landry Parish; Projection: UTM Z15N, NAD 83; 2019 NAIP Imagery

Consulting, LLC



LEGEND

Project AreaData Point

Non-Jurisdictional Wetlands (0.06 ac.)

A New Method Meters (2 507 linear

Wetlands (0.00 ac.) Non-Wetland Waters (3,597 linear ft.)

#### FIGURE 3 Wetland Delineation Map

Wetland Delineation Daly Farms Site St. Landry Parish, Louisiana Map Scale: 1:8,400 1 Inch = 700 Feet

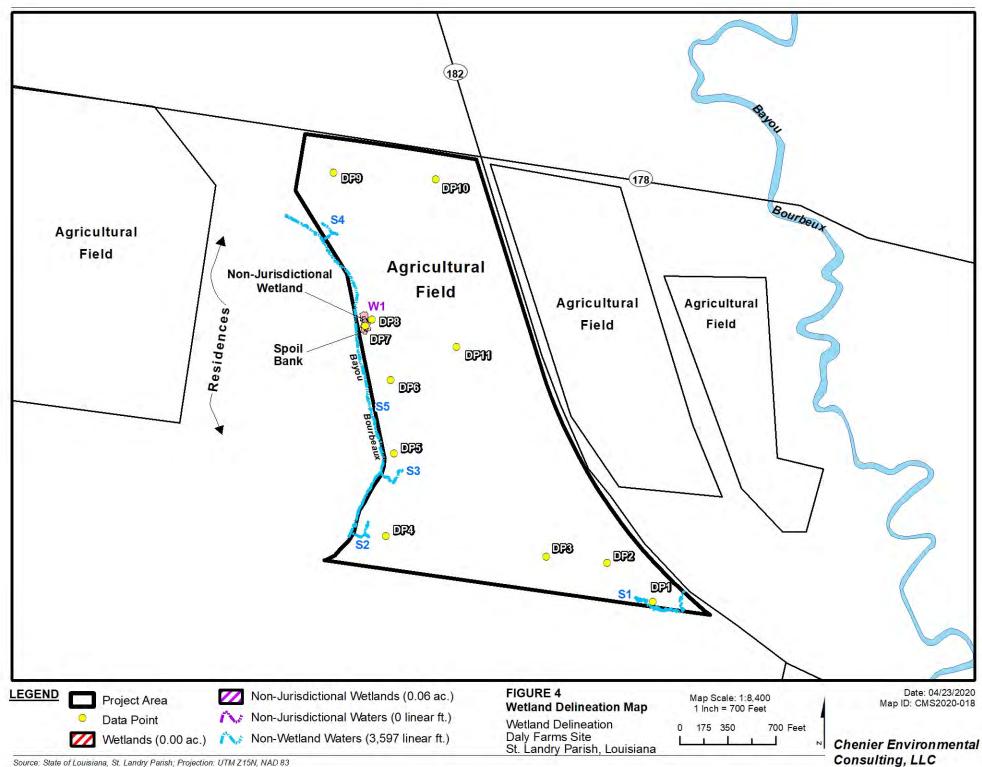
0

175 350 700 Feet

Date: 04/23/2020 Map ID: CMS2020-017

<sup>▶|</sup> Chenier Environmental Consulting, LLC

Source: State of Louisiana, St. Landry Parish; Projection: UTM Z15N, NAD 83; 2019 NAIP Imagery



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: Daly Farms Site	City/County: Sunset/ St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-1
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.) terrace Loca	al relief (concave, convex, none): none Slope (%): 1-3
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'9.97"	N Long: <u>92° 5'42.40"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Coteau silt loam, 1 to 3 percent slopes (Cp)	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 Hydrologysignificantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>X</u> No Yes <u>No</u> Yes <u>No</u>	X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>		
Wetland Hydrology Present?       Yes       No       X         Remarks:       The sample point is located within a forested area in the southeast corner of the site.							

#### HYDROLOGY

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

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

	Abaaluta	Deminent	lu alia atau	Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft radius)	Absolute	Dominant	Indicator Status	
·	80	Species?		Number of Dominant Species
1. <u>Celtis laevigata</u>		<u> </u>	FACW	That Are OBL, FACW, or FAC: <u>3</u> (A)
2. Quercus nigra	10	<u>N</u>	FAC	-
3				Total Number of Dominant
4				Species Across All Strata: <u>4</u> (B)
5				
0				Percent of Dominant Species
7				- That Are OBL, FACW, or FAC: <u>75</u> (A/B)
8				Prevalence Index worksheet: Total % Cover of: Multiply by:
	90		al Cover	
50 % of total cover: 45	20 % of	total cover:	18	OBL species 1
				FACW species 80 2 80
Sapling/Shrub Stratum (Plot size: 20 ft radius )				FAC species 125 3 375
1. Ligustrum sinense	75	Y	FAC	
2.				FACU species 85 4 340
				UPL species 5
				Column Totals: 290 795 (B)
4.		<u> </u>		-  <u>195</u> (D)
5				-
6				Prevalence Index = $B/A = 2.74$
7				- Hydrophytic Vegetation Indicators:
8.				
	75	= Tota	al Cover	<ul> <li>1 – Rapid Test for Hydrophytic Vegetation</li> </ul>
50% of total cover 37.5				2 – Dominance Test is > 50%
50% of total cover $37.5$	20 % 01	iolai COVEI.	15	$3 - Prevalence Test is \le 3.0^{1}$
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 20 ft radius)				
1. Parthenocissus quinquefolia	80	<u>Y</u>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2. Toxicodendron radicans	10	N	FAC	- be present, unless disturbed or problematic.
3. Galium aparine	5	Ν	FACU	- Definitions of Vegetation Strata:
4. Trifolium sp.	5	N	FAC	Demnitions of vegetation Strata:
				<b>Tree</b> – Woody plants, excluding woody vines,
•				approximately 20 ft (6 m) or more in height and 3 in.
6				(7.6 cm) or larger in diameter at breast height (DBH).
7				-
8				Sapling – Woody plants, excluding woody vines,
9				approximately 20 ft (6 m) or more in height and less
10				than 3 in. (7.6 cm) DBH.
11				- Oberation With the standard to search of the second state of the state of the second
10				Shrub – Woody plants, excluding woody vines,
12	400		10	approximately 3 to 20 ft (1 to 6 m) in height.
	100		al Cover	Herb – All herbaceous (non-woody) plants, including
50 % of total cover: <u>50</u>	20 % of	total cover:	20	- herbaceous vines, regardless of size. Includes woody
				plants, except woody vines, less than approximately
Woody Vine Stratum (Plot size: 20 ft radius)				3 ft (1 m) in height.
1. Smilax rotundifolia	25	Y	FAC	
2.				<b>Woody vine</b> – All woody vines, regardless of height.
				-
				-
4.				
5				_ Hydrophytic
	25	= Total Cov	er	Vegetation
50 % of total cover: 12.5	20 % (	of total cover.	5	Present? Yes X No
			0	-
Remarks: (Include photo numbers here or on a separate	sheet.)			
Photographs 11 & 12				

SOIL

Profile Description: (Describe to the depth Depth Matrix		t the indicator o Features	r confirm the	absence of	indicators.)		
(inches) Color (moist) %		% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks	
0-4 10YR 3/2 100			S	ilt loam		Dry	
4-16 10YR 3/3 100			S	ilt loam		Dry	
4-10       101K 3/3       100         101K 3/3 <td>educed Matrix, CS=C</td> <td>Surface (S8) <b>(LR</b></td> <td>I Sand Grains</td> <td>3. <sup>2</sup>Loc Indicator 1 cm Mu</td> <td>ation: PL=Pore rs for Problema ick (A9) (LRR O) ick (A10) (LRR S</td> <td>Lining, M=M</td> <td></td>	educed Matrix, CS=C	Surface (S8) <b>(LR</b>	I Sand Grains	3. <sup>2</sup> Loc Indicator 1 cm Mu	ation: PL=Pore rs for Problema ick (A9) (LRR O) ick (A10) (LRR S	Lining, M=M	
Black Histic (A3)	Loamy Gleyed M	atrix (F1) (LRR C	))	Reduced	d Vertic (F18) <b>(o</b>	utside MLR	A 150A,B)
Hydrogen Sulfide (A4)	Loamy Gleyed M		,		t Floodplain Soi		
Stratified Layers (A5)	Depleted Matrix (				ous Bright Loamy		-
Organic Bodies (A6) (LRR P, T, U)	Redox Dark Surfa				A 153B)	. 7	
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark Su	urface (F7)		-	ent Material (TF2	2)	
Muck Presence (A8) (LRR U)	Redox Depressio	ons (F8)		Very Sha	allow Dark Surfa	ce (TF12)	
1 cm Muck (A9) <b>(LRR P, T)</b>	Marl (F10) (LRR	U)		Other (E	xplain in Remarl	(S)	
Depleted Below Dark Surface (A11)	Depleted Ochric	(F11) <b>(MLRA 15</b>	)				
Thick Dark Surface (A12)	Iron Manganese	Masses (F12) <b>(L</b>	RR O, P, T)	<sup>3</sup> Indicato	ors of Hydrophyti	c vegetation	and
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surface (	F13) <b>(LRR P, T,</b>	J)		hydrology must l		
Sandy Mucky Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151) disturbed or problematic.						
Sandy Gleyed Matrix (S4)	Reduced Vertic (F18) (MLRA 150A, 150B)						
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 149A)						
Stripped Matrix (S6) Dark Surface (S7) <b>(LRR P, S, T, U)</b>	Anomalous Brigh	it Loamy Soils (F	20) <b>(MLRA 1</b> 4	9A, 153C, 19	53D)		
Restrictive Layer (if observed): Type:		Hydi	ic Soil Prese	ont?	Yes	No	x
Depth (inches):	_	пуа	ic Soli Flese	:IIL f	165		^
· · · · · · · · · · · · · · · · · · ·							
Remarks: Dry soils, containing dense tree roots							

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

Project/Site: Daly Farms Site	City/County: Sunset/ St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-2
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: N/A
Landform (hillslope, terrace, etc.) terrace Loca	al relief (concave, convex, none): <u>none</u> Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'12.68	8"N Long: <u>92° 5'46.13"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Coteau silt loam, 0 to 1 percent slopes (Co)	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, SoilX_, or Hydrologysignificantly disturbed?	? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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? Hydric Soil Present?	Yes Yes	No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>	
Wetland Hydrology Present?	Yes	NoX	_			
Remarks:						

The sample point is located within an agricultural field that has been recently plowed. The soils have been disturbed by agricultural practices since at least the 1950s.

Sample point is in the southeast corner of the site.

#### HYDROLOGY

Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; che         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)	Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) <b>(LRR U)</b> Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks)	Crayfish Burrows (C8)
Field Observations:		
Surface Water Present? Yes No X	Depth (inches):	
Water Table Present? Yes No X	Depth (inches):	land Hydrology Present? Yes No X
Saturation Present? Yes No X (includes capillary fringe)	Depth (inches):	land Hydrology Present? Yes <u>No X</u>
Describe Recorded Data (stream gauge, monitoring USGS 7.5-minute topographic map, aerial photogra Remarks:		ns), if available:
No hydrology indicators observed. Area appears to	be a well-drained. Drainage appears t	o be towards the south.

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

	Abacluta Dominant Indiactor	Dominance Test worksheet:
Tree Stratum (Plot size: <u>20 ft radius</u> ) 1. <u>Not applicable</u>	Absolute Dominant Indicator <u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3 4		Total Number of Dominant Species Across All Strata: (B)
5 6 7		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
8.		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
50 % of total cover:	20 % of total cover:	OBL species 1
Sapling/Shrub Stratum (Plot size: 20 ft radius )		FACW species 2
1 Not appliable		FAC species 3
2		FACU species 4
3		UPL species 5
4		Column Totals: (B)
5		-
		- Prevalence Index = B/A =
7 8		- Hydrophytic Vegetation Indicators:
	= Total Cover	<ul> <li>1 – Rapid Test for Hydrophytic Vegetation</li> <li>2 – Dominance Test is &gt; 50%</li> </ul>
50% of total cover	20 % of total cover:	2 - Dominance Test is > 50% - 3 - Prevalence Test is $\leq 3.0^1$
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: <u>20 ft radius</u> ) 1. <u>Not applicable</u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2		- be present, unless disturbed or problematic.
3 4		- Definitions of Vegetation Strata:
5.		Tree – Woody plants, excluding woody vines,
6.		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
7		
8		Sapling – Woody plants, excluding woody vines,
9		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
10		-
11 12		<ul> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> </ul>
12	= Total Cover	
50 % of total cover:		<ul> <li>Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately</li> </ul>
Woody Vine Stratum (Plot size: <u>20 ft radiu</u> s)		3 ft (1 m) in height.
		Woody vine – All woody vines, regardless of height.
2		-
4.		-
5.		Hydrophytic
	= Total Cover	Vegetation
50 % of total cover:	20 % of total cover:	Present? Yes <u>No X</u>
Remarks: (Include photo numbers here or on a separa	te sheet.)	
Photographs 13 & 14		

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rei	marks
0-6	10YR 4/3	100					Silt loam	Dark	Brown
6-12	10YR 5/3	80	10YR 4/6	20	RM	М	Clay	Reddis	h Mottles
Hydric Soil Histosol Black Hi Hydroge Stratified Organic 5 cm Mu	bipedon (A2) stic (A3) In Sulfide (A4) Layers (A5) Bodies (A6) <b>(LRR F</b> Icky Mineral (A7) <b>(L</b>	P, T, U) RR P, T, U)	Polyvalue B Thin Dark S Loamy Gley Depleted Ma Redox Dark Depleted Da	elow Surfa uface (S9) red Matrix ( ed Matrix ( atrix (F3) Surface (F ark Surface	ce (S8) <b>(LF (LRR S, T,</b> F1) <b>(LRR C</b> F2) (F7)	R S, T, U U)	Indic 1 cm 2 cm Red Pied Anon (N Red	<sup>2</sup> Location: PL=Pore I <b>ators for Problemat</b> n Muck (A9) <b>(LRR O)</b> n Muck (A10) <b>(LRR S</b> uced Vertic (F18) <b>(ou</b> mont Floodplain Soil malous Bright Loamy <b>ILRA 153B)</b> Parent Material (TF2 (Shallow Dark Surface)	t <b>ic Hydric Soils</b> <sup>3</sup> : <b>utside MLRA 150A</b> s (F19) <b>(LRR P, S,</b> Soils (F20) 2)
	esence (A8) (LRR l	1)	Redox Depr		8)		Very Shallow Dark Surface (TF12)		
	ick (A9) <b>(LRR P, T)</b>	- (644)		Marl (F10) (LRR U)Other (Explain in					(S)
	d Below Dark Surfac ark Surface (A12)	ce (A11)		Depleted Ochric (F11) (MLRA 151) Iron Manganese Masses (F12) (LRR O, P, T)					
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)			Delta Ochrid						
Restrictive Type:	Layer (if observed	):			Hydi	ric Soil Pr	esent?	Yes	No <u>X</u>
Depth (ir	nches):								

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

Project/Site: Daly Farms Site	City/County: Sunset/ St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-3
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.) terrace Loca	al relief (concave, convex, none): <u>none</u> Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'13.11	"N Long: <u>92° 5'51.27"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Coteau silt loam, 0 to 1 percent slopes (Co)	NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>No X</u> (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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	No X	la tha Commissi Anna		
Hydric Soil Present?	Yes	No	Is the Sampled Area within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes	No			
Remarks:					

The sample point is located within an agricultural field that has been recently plowed. The soils have been disturbed by agricultural practices since at least the 1950s.

Sample point is located in the central south portion of the site.

#### HYDROLOGY

Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; che         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)	Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) <b>(LRR U)</b> Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)	
(includes capillary fringe)	,		
Remarks: No hydrology indicators observed. Area appears to	pphs / / / /	тс.	

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

	Abachita Dominant Indiastor	Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft radius)	Absolute Dominant Indicator <u>% Cover Species?</u> Status	Number of Dominant Species
1. Not applicable	<u> </u>	That Are OBL, FACW, or FAC: (A)
2.		
3		Total Number of Dominant
4		Species Across All Strata: (B)
5		Percent of Dominant Species
6		- That Are OBL, FACW, or FAC: (A/B)
7		_
8	= Total Cover	Prevalence Index worksheet:     Total % Cover of: Multiply by:
50 % of total cover:		OBL species 1
		FACW species 2
Sapling/Shrub Stratum (Plot size: 20 ft radius )		FAC species 3
		- FACU species 4
2		
3		_ UPL species 5 _ Column Totals: (B)
4 5.		
6		-
-		Prevalence Index = B/A =
8.		<ul> <li>Hydrophytic Vegetation Indicators:</li> <li>Danid Test for Ludraphytic Vegetation</li> </ul>
	= Total Cover	1 – Rapid Test for Hydrophytic Vegetation
50% of total cover	20 % of total cover:	2 - Dominance Test is > 50%
		$= 3 - \text{Prevalence Test is} \le 3.0^{1}$
Herb Stratum (Plot size: 20 ft radius)		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2. 3.		<ul> <li>be present, unless disturbed or problematic.</li> </ul>
		<ul> <li>Definitions of Vegetation Strata:</li> </ul>
4 5		<ul> <li>Tree – Woody plants, excluding woody vines,</li> </ul>
6		approximately 20 ft (6 m) or more in height and 3 in.
7.		<ul> <li>(7.6 cm) or larger in diameter at breast height (DBH).</li> </ul>
8		Sapling – Woody plants, excluding woody vines,
9		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
10		–
11		<b>Shrub</b> – Woody plants, excluding woody vines,
12	= Total Cover	_ approximately 3 to 20 ft (1 to 6 m) in height.
50 % of total cover:		Herb – All herbaceous (non-woody) plants, including
		<ul> <li>herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately</li> </ul>
Woody Vine Stratum (Plot size: <u>20 ft radiu</u> s)		3 ft (1 m) in height.
1. Not applicable		
2		Woody vine – All woody vines, regardless of height.
3		-
4.		-
5		_ Hydrophytic Vegetation
50.04 (1.1.1	= Total Cover	Present? Yes <u>No X</u>
50 % of total cover:	20 % of total cover:1	-
Remarks: (Include photo numbers here or on a separa	te sheet.)	
	,	
Photographs 15 & 16		

SOIL	
------	--

	cription: (Describe	to the depth				r confirm	the absence	of indicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	edox Featu %	res Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks	
0-10	10YR 4/3	100			<u></u>		Silt loam			
10-16	10YR 5/2	100					Clay			
1010	1011( 0/2	100					Oldy			
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, C	S=Covered	d or Coate	d Sand Gra	ains. <sup>2</sup> L	ocation: PL=Pore	Lining, M=Matrix	κ.
Hydric Soil	Indicators:						Indica	tors for Problema	tic Hydric Soils	3.
Histosol	(A1)		Polyvalue Be	elow Surfac	ce (S8) <b>(LF</b>	R S, T, U)	1 cm	Muck (A9) (LRR O)	)	
Histic Ep	ipedon (A2)		Thin Dark Su	uface (S9)	(LRR S, T,	U)	2 cm	Muck (A10) <b>(LRR S</b>	5)	
Black Hi	stic (A3)		Loamy Gleye	ed Matrix (I	F1) <b>(LRR (</b>	D)	Redu	ced Vertic (F18) <b>(o</b>	utside MLRA 15	50A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (I	F2)		Piedm	nont Floodplain Soi	ls (F19) <b>(LRR P</b> ,	, S, T)
Stratified	I Layers (A5)		Depleted Matrix (F3)				Anom	Anomalous Bright Loamy Soils (F20)		
Organic	Bodies (A6) <b>(LRR P</b>	', T, U)	Redox Dark	Surface (F	6)		(MI	(MLRA 153B)		
	cky Mineral (A7) <b>(L</b> l	-	Depleted Da				Red Parent Material (TF2)			
	esence (A8) <b>(LRR L</b>	))	Redox Depressions (F8)				Very Shallow Dark Surface (TF12)			
	ck (A9) <b>(LRR P, T)</b>		Marl (F10) (LRR U)					(Explain in Remarl	ks)	
	Below Dark Surfac	e (A11)	Depleted Oc			-	_			
	rk Surface (A12)		Iron Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indic					<sup>3</sup> Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless		ł
	airie Redox (A16) <b>(I</b>	-								SS
	lucky Mineral (S1) (	LRR O, S)	Delta Ochric (F17) (MLRA 151) disturbed or problematic.							
	leyed Matrix (S4)		Reduced Vertic (F18) <b>(MLRA 150A, 150B)</b> Piedmont Floodplain Soils (F19) <b>(MLRA 149A)</b>							
	edox (S5)						-	4500)		
	Matrix (S6) face (S7) (LRR P, S	S. T. U)	Anomalous E	Bright Loan	ny Solis (F	20) (IVILRA	A 149A, 153C,	, 153D)		
Daik ou		, , , 0)								
Restrictive	Layer (if observed	).								
Type:		,.						N	N	v
Depth (ir	ches).				Нуа	ric Soil Pr	esent?	Yes	No	<u>X</u>
Remarks:										

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

Project/Site: Daly Farms Site	City/County: Sunset/ St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-4
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.) terrace Loca	al relief (concave, convex, none): <u>none</u> Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'15.51	I"N Long: <u>92° 6'0.58"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Frost silt loam, 0 to 1 percent slopes (FrA)	NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>No X</u> (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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	No X	In the Complete Area		
Hydric Soil Present?	Yes	No <u></u>	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Wetland Hydrology Present?	Yes	No			
Remarks:					

The sample point is located within an agricultural field that has been recently plowed. The soils have been disturbed by agricultural practices since at least the 1950s.

Sample point is located in the southwest portion of the site.

#### HYDROLOGY

				3		
Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requ	uired; che			Surface Soil Cracks (B6)		
Surface Water (A1)		Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)		Marl Deposits (B15) (LRR		Drainage Patterns (B10)		
Saturation (A3)		Hydrogen Sulfide Odor (C	,	Moss Trim Lines (B16)		
Water Marks (B1)		Oxidized Rhizospheres or		Dry-Season Water Table (C2)		
Sediment Deposits (B2)		Presence of Reduced Iror		Crayfish Burrows (C8)		
Drift Deposits (B3) Algal Mat or Crust (B4)		Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (C6)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)		
Sediment Deposits (B2)     Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aerial Image		Other (Explain in Remark	c)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Image	rv (B7)		5)	FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)	ау (Б7)			Sphagnum moss (D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes No	o <u>X</u>	Depth (inches):				
Water Table Present? Yes No	o <u>X</u>	Depth (inches):	Wetland Hydrold	logy Present? Yes No _X		
	o <u>X</u>	Depth (inches):				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, m USGS 7.5-minute topographic map, aerial p Remarks:			spections), if availabl	e:		
No hydrology indicators observed. Area ap	nnears to	be a well-drained. Drainage an	nears to be towards t	the south		
No hydrology indicators observed. Area ap	Spears to	be a weil-drained. Drainage ap	pears to be towards			

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

	Abacluta Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>20 ft radius</u> ) 1. <u>Not applicable</u>	Absolute Dominant Indicator % Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		- Total Number of Dominant Species Across All Strata: (B)
4 5		Percent of Dominant Species
6 7		- That Are OBL, FACW, or FAC: (A/B)
8.		Prevalence Index worksheet:
50 % of total cover:	= Total Cover	Total % Cover of:     Multiply by:       OBL species     1
50 % of total cover.		FACW species 2
Sapling/Shrub Stratum (Plot size: 20 ft radius )		FAC species 3
_		FACU species 4
2		UPL species 5
3 4		Column Totals: (B)
5		-
6		Prevalence Index = B/A =
7		- Hydrophytic Vegetation Indicators:
o	= Total Cover	<ul> <li>1 – Rapid Test for Hydrophytic Vegetation</li> </ul>
50% of total cover	20 % of total cover:	2 – Dominance Test is > 50% $\overline{}$ 3 – Prevalence Test is ≤ 3.0 <sup>1</sup>
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: <u>20 ft radius</u> ) 1. <u>Not applicable</u>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2		- be present, unless disturbed or problematic.
4.		<ul> <li>Definitions of Vegetation Strata:</li> </ul>
5		<b>Tree</b> – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
6 7.		<ul> <li>(7.6 cm) or larger in diameter at breast height (DBH).</li> </ul>
		- Sapling – Woody plants, excluding woody vines,
8 9		approximately 20 ft (6 m) or more in height and less
10		than 3 in. (7.6 cm) DBH.
11		Shrub – Woody plants, excluding woody vines,
12	= Total Cover	approximately 3 to 20 ft (1 to 6 m) in height.
50 % of total cover:		<ul> <li>Herb – All herbaceous (non-woody) plants, including</li> <li>herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately</li> </ul>
Woody Vine Stratum (Plot size: <u>20 ft radiu</u> s)		3 ft (1 m) in height.
		Woody vine – All woody vines, regardless of height.
2		-
4.		-
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes <u>No X</u>
50 % of total cover:	20 % of total cover:	-
Remarks: (Include photo numbers here or on a separa	te sheet.)	
	·····,	
Photographs 17 & 18		

SOIL	
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(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-12	10YR 4/3	100					Silt loam			
12-16	10YR 2/1	100					Clay	Very Dark		
<sup>1</sup> Type: C=C	oncentration, D=De	epletion, RM=	Reduced Matrix, C	S=Covere	d or Coate	d Sand Gr	ains. <sup>2</sup> L	Location: PL=Pore Lining, M=Matrix.		
Hydric Soil								tors for Problematic Hydric Soils <sup>3</sup> :		
Histosol	( )		Polyvalue Be					Muck (A9) (LRR O)		
<u> </u>	ipedon (A2)		Thin Dark Su					Muck (A10) (LRR S)		
Black His	( )		Loamy Gleye		<i>,</i> .	(כ		ced Vertic (F18) (outside MLRA 150A,E		
	n Sulfide (A4)		Loamy Gleye		F2)			nont Floodplain Soils (F19) <b>(LRR P, S, T</b>		
	Layers (A5)	<b>. .</b>	Depleted Ma	· · /	(C)			Anomalous Bright Loamy Soils (F20)		
	Bodies (A6) <b>(LRR F</b>	-	Redox Dark		,	-	(MLRA 153B) Red Parent Material (TE2)			
	cky Mineral (A7) <b>(L</b>	-	Depleted Da		. ,		Red Parent Material (TF2) Very Shallow Dark Surface (TF12)			
	esence (A8) <b>(LRR l</b> ck (A9) <b>(LRR P, T)</b>	)	Redox Depressions (F8) Marl (F10) (LRR U)					(Explain in Remarks)		
	Below Dark Surfac	ο (Δ11)	Depleted Ochric (F11) (MLRA 151)							
·	rk Surface (A12)		Iron Mangan		-	-	Γ)			
	airie Redox (A16) <b>(</b>	MI RA 150A)				Sindic	<sup>3</sup> Indicators of Hydrophytic vegetation and			
	lucky Mineral (S1) (	-	Delta Ochric				wetland hydrology must be present, unless disturbed or problematic.			
	leyed Matrix (S4)		Reduced Ve	. , .	-	alotai				
	edox (S5)		Piedmont Flo			-	A)			
	Matrix (S6)						A 149A, 153C	. 153D)		
	face (S7) (LRR P, S	S, T, U)					,	,,		
Restrictive Type:	Layer (if observed	):								
Depth (ir	nches):		_		Hyd	ric Soil Pr	esent?	Yes No <u>X</u>		
Remarks:										

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

Project/Site: Daly Farms Site	City/County: Sunset/ St. Landry Sampling Date: 04/17/2020					
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-5					
vestigator(s): Aaron Bass, Donnie Day Section, Township, Range: N/A						
Landform (hillslope, terrace, etc.) terrace Loca	I relief (concave, convex, none): none Slope (%): 0-1					
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'20.72	"N Long: <u>92° 6'3.93"W</u> Datum: <u>WGS84</u>					
Soil Map Unit Name: Frost silt loam, 0 to 1 percent slopes (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 Hydrologysignificantly disturbed?	Are "Normal Circumstances" present? Yes X No					
Are Vegetation, Soil, or Hydrologynaturally 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? Hydric Soil Present?	Yes <u>X</u> Yes	No No	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Wetland Hydrology Present?	Yes	No X			
Remarks: The sample point is located within a fores	sted area on the	western portior	n of the site along Bayou Bourl	beaux.	

#### HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required
Primary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	required; che	<u>eck all that apply)</u> Aquatic Fauna (B13) Autor Gaussian (B15) (LRR L Hydrogen Sulfide Odor (C1 Oxidized Rhizospheres on I Presence of Reduced Iron (	) Living Roots (C3)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8 Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Im         Water-Stained Leaves (B9)	agery (B7)	Recent Iron Reduction in Ti Thin Muck Surface (C7) Other (Explain in Remarks)	illed Soils (C6)	<ul> <li>Graynsh Durlows (CO)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>FAC-Neutral Test (D5)</li> <li>Sphagnum moss (D8) (LRR T, U)</li> </ul>
Field Observations:				
Surface Water Present? Yes	No X	Depth (inches):		
Water Table Present? Yes	No <u>X</u>	Depth (inches):	Wotland Hudrala	my Present? Yes No Y
Saturation Present? Yes (includes capillary fringe)	_ No <u>X</u> _	Depth (inches):	Wetland Hydrolog	gy Present? Yes <u>No X</u>
Describe Recorded Data (stream gaug USGS 7.5-minute topographic map, ae			pections), if available	
Remarks: No hydrology indicators observed. Are	a appears to	be a well-drained. Drainage appe	ears to be towards th	ne east.

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

	Abaaluta	Dominant	Indiantar	Dominance Test worksheet:
Tree Stratum (Plot size: <u>20 ft radius</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Number of Deminent Creation
1. Quercus nigra	90	<u>opeoleo:</u> Y	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
				- Total Number of Dominant
3				Species Across All Strata: 4 (B)
4		. <u> </u>		-
5				Percent of Dominant Species
6		. <u> </u>		- That Are OBL, FACW, or FAC: 75 (A/B)
7				(70)
8			_	Prevalence Index worksheet:
	90	= Tota	l Cover	Total % Cover of: Multiply by:
50 % of total cover: 45	20 % of	total cover:	18	OBL species 1
				FACW species 5 2 10
Sapling/Shrub Stratum (Plot size: 20 ft radius )				· · · · · · · · · · · · · · · · · · ·
1. Ligustrum sinense	70	Y	FAC	FAC species <u>190</u> 3 <u>570</u>
2. Prunus serotina	5	<u> </u>	FACW	FACU species <u>65</u> 4 <u>260</u>
				UPL species 5
3		·		Column Totals: 260 840 (B)
4		<u> </u>		- <u>640</u> (B)
5		·		-
6				Prevalence Index = $B/A = 3.23$
7				
8				1 – Rapid Test for Hydrophytic Vegetation
	75	= Tota	l Cover	
50% of total cover 37.5				$X_2$ – Dominance Test is > 50%
				$3 - Prevalence Test is \le 3.0^1$
Herb Stratum (Plot size: 20 ft radius)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Parthenocissus guinguefolia	65	Y	FACU	
	10	 N	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2. Toxicodendron radicans				be present, unless disturbed or problematic.
3. Sambucus nigra		<u> </u>	FAC	Definitions of Vegetation Strata:
4. <u>.</u>				_
5		. <u> </u>		<b>Tree</b> – Woody plants, excluding woody vines,
6				approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
7				
8				Sapling – Woody plants, excluding woody vines,
9.				approximately 20 ft (6 m) or more in height and less
				than 3 in. (7.6 cm) DBH.
10				-
11		<u> </u>		Shrub – Woody plants, excluding woody vines,
12				approximately 3 to 20 ft (1 to 6 m) in height.
	80		l Cover	Herb – All herbaceous (non-woody) plants, including
50 % of total cover: 40	20 % of	total cover:	16.04	- herbaceous vines, regardless of size. Includes woody
				plants, except woody vines, less than approximately
Woody Vine Stratum (Plot size: 20 ft radius)				3 ft (1 m) in height.
1. Smilax rotundifolia	15	Y	FAC	
2.				<b>Woody vine</b> – All woody vines, regardless of height.
3.				
4.				-
		·		Hydrophytic
5				Vegetation
	15	= Total Cov	er	Present? Yes X No
50 % of total cover: 7.5	20 % c	of total cover:	3	
Demortos (Includo photo numbero horo or en o conorato	aboat )			
Remarks: (Include photo numbers here or on a separate	sneet.)			
Photograph 19				

SOIL

Profile Des Depth	cription: (Describe Matrix			ment the in edox Featur		or confirm	the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rer	narks
0-12	10YR 4/2	100					Silt Loam		
	;								
	,								
				·		·			
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, C	S=Covered	d or Coate	d Sand Gr	ains. <sup>2</sup> Loc	ation: PL=Pore L	ining, M=Matrix.
Hydric Soil	Indicators:						Indicato	rs for Problemat	ic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be	elow Surfac	e (S8) <b>(LF</b>	RR S, T, U		uck (A9) (LRR O)	•
Histic Ep	pipedon (A2)		Thin Dark Su					uck (A10) <b>(LRR S</b>	)
Black Hi	stic (A3)		Loamy Gley	ed Matrix (F	- 1) (LRR (	<b>)</b>	Reduce	d Vertic (F18) <b>(ou</b>	tside MLRA 150A,
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (F	-2)		Piedmo	nt Floodplain Soils	s (F19) <b>(LRR P, S,</b> <sup>•</sup>
Stratified	l Layers (A5)		Depleted Ma	atrix (F3)			Anomal	ous Bright Loamy	Soils (F20)
Organic	Bodies (A6) <b>(LRR F</b>	P, T, U)	Redox Dark	Surface (F	6)		(MLRA 153B)		
5 cm Mu	cky Mineral (A7) <b>(L</b>	RR P, T, U)	Depleted Da	rk Surface	(F7)		Red Parent Material (TF2)		
Muck Pr	esence (A8) <b>(LRR L</b>	J)	Redox Depressions (F8)				Very Shallow Dark Surface (TF12)		
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (I	_RR U)			Other (Explain in Remarks)		
Depleted	Below Dark Surfac	e (A11)	Depleted Oc	hric (F11) <b>(</b>	MLRA 15	1)			
Thick Da	rk Surface (A12)		Iron Mangan	ese Masse	s (F12) <b>(L</b>	RR O, P, 1	r) <sub>3Indicato</sub>	ors of Hydrophytic	vegetation and
Coast Pr	airie Redox (A16) <b>(</b>	MLRA 150A)	Umbric Surfa	ace (F13) <b>(I</b>	LRR P, T,	U)	<sup>3</sup> Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless		
Sandy M	lucky Mineral (S1) <b>(</b>	LRR O, S)	Delta Ochric	(F17) <b>(ML</b>	RA 151)		d or problematic.		
Sandy G	leyed Matrix (S4)		Reduced Ve	rtic (F18) <b>(I</b>	MLRA 150	A, 150B)			
Sandy R	edox (S5)		Piedmont Fl						
	Matrix (S6)		Anomalous I	Bright Loam	ny Soils (F	20) <b>(MLR</b>	A 149A, 153C, 1	53D)	
Dark Su	face (S7) <b>(LRR P, S</b>	s, t, U)							
Restrictive	Layer (if observed	):							
Type:			_		Hydric Soil Present? Yes			No X	
Depth (ir	nches):				_				
Remarks:			_						

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

Project/Site: Daly Farms Site	City/County: Sunset/St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-6
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: N/A
Landform (hillslope, terrace, etc.) terrace Loca	al relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'25.93	"N Long: <u>92° 6'4.12"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Frost silt loam, 0 to 1 percent slopes (FrA)	NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>No X</u> (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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	NoX			
Hydric Soil Present?	Yes	NoX	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Wetland Hydrology Present?	Yes	NoX	_		
Remarks:					

The sample point is located within an agricultural field that has been recently plowed. The soils have been disturbed by agricultural practices since at least the 1950s.

Sample point is in the west portion of the site, approximately 50 feet from the tree line.

#### HYDROLOGY

Wetland Hydrology Indicators:         Primary Indicators (minimum of one is red         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imag         Water-Stained Leaves (B9)		Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) <b>(LRR</b> Hydrogen Sulfide Odor (C Oxidized Rhizospheres or Presence of Reduced Iror Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remarks	c1) n Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8 Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)			
Field Observations:							
Surface Water Present? YesI	No <u>X</u>	Depth (inches):					
Water Table Present? YesI	No <u>X</u>	Depth (inches):	Wetland Hydrology Present? Yes No X				
Saturation Present? Yes I (includes capillary fringe)	No <u>X</u>	Depth (inches):		ogy Present? Yes <u>No X</u>			
Describe Recorded Data (stream gauge, USGS 7.5-minute topographic map, aeria			spections), if availabl	le:			
Remarks: No hydrology indicators observed. Area a	appears to	be a well-drained. Drainage ap	pears to be towards t	the west.			

	Abachita Dominant Indiastor	Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft radius)	Absolute Dominant Indicator <u>% Cover Species?</u> Status	Number of Dominant Species
1. Not applicable		That Are OBL, FACW, or FAC: (A)
2.		
3		Total Number of Dominant
4		Species Across All Strata: (B)
5		Percent of Dominant Species
6		- That Are OBL, FACW, or FAC: (A/B)
7		_
8	= Total Cover	Prevalence Index worksheet:     Total % Cover of: Multiply by:
50 % of total cover:		OBL species 1
		FACW species 2
Sapling/Shrub Stratum (Plot size: 20 ft radius )		
d Neteralizable		FAC species 3
2		FACU species 4
3		UPL species 5
4		_ Column Totals: (B)
5		-
6		Prevalence Index = B/A =
7		<ul> <li>Hydrophytic Vegetation Indicators:</li> </ul>
8	= Total Cover	<ul> <li>1 – Rapid Test for Hydrophytic Vegetation</li> </ul>
50% of total cover	20 % of total cover:	2 – Dominance Test is > 50%
		-3 – Prevalence Test is ≤ 3.0 <sup>1</sup>
Herb Stratum (Plot size: <u>20 ft radius</u> )		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4 Net explicable		
2.		<ul> <li><sup>1</sup>Indicators of hydric soil and wetland hydrology must</li> <li>be present, unless disturbed or problematic.</li> </ul>
3		<ul> <li>Definitions of Vegetation Strata:</li> </ul>
4		_
5		<ul> <li>Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.</li> </ul>
6		<ul> <li>(7.6 cm) or larger in diameter at breast height (DBH).</li> </ul>
7		-
8		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
9		than 3 in. (7.6 cm) DBH.
10		-
11 12		<ul> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> </ul>
12	= Total Cover	
50 % of total cover:		Herb – All herbaceous (non-woody) plants, including
		<ul> <li>herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately</li> </ul>
Woody Vine Stratum (Plot size: 20 ft radius)		3 ft (1 m) in height.
2		Woody vine – All woody vines, regardless of height.
3		-
4 5.		-
5		_ Hydrophytic Vegetation
	= Total Cover	Present? Yes <u>No X</u>
50 % of total cover:	20 % of total cover: 1	-
Remarks: (Include photo numbers here or on a separat	e sheet.)	
Photographs 21 & 22		

SOIL	
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Profile Deso Depth	cription: (Describe Matrix			ment the in edox Featu		r confirm	the absence	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 4/3	100					Silt Loam		
8-16	10YR 3/3	100					Silt Loam		
		·							
					<u> </u>				
		<u> </u>			·	·			
					·	·			
<sup>1</sup> Type: C=C	oncentration, D=De	epletion, RM=I	Reduced Matrix, C	S=Covered	d or Coate	d Sand Gr	ains. <sup>2</sup> L	ocation: PL=Pore	Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	tors for Problema	tic Hydric Soils <sup>3</sup> :
<u> </u>	(A1)		Polyvalue Be	elow Surfac	ce (S8) <b>(LF</b>	RR S, T, U	)1 cm	Muck (A9) (LRR O)	
Histic Ep	ipedon (A2)		Thin Dark Su	uface (S9)	(LRR S, T,	U)	2 cm	Muck (A10) (LRR S	5)
Black His	stic (A3)		Loamy Gleye	ed Matrix (F	=1) (LRR (	<b>)</b> )	Reduc	ced Vertic (F18) <b>(o</b>	utside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	=2)		Piedm	nont Floodplain Soi	ls (F19) <b>(LRR P, S, T)</b>
	Layers (A5)		Depleted Ma					alous Bright Loam	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)		(ML	LRA 153B)	
	cky Mineral (A7) <b>(L</b>	-	Depleted Da	`	,		Red Parent Material (TF2)		
	esence (A8) (LRR L		Redox Depre				Very Shallow Dark Surface (TF12)		
	ck (A9) (LRR P, T)	,	Marl (F10) <b>(LRR U)</b>			Other (Explain in Remarks)			
	Below Dark Surfac	ce (A11)	Depleted Ochric (F11) (MLRA 151)						
	rk Surface (A12)			Iron Manganese Masses (F12) (I RR O, P, T)					
	airie Redox (A16) (	MI RA 150A)						ndicators of Hydrophytic vegetation and retland hydrology must be present, unless	
	lucky Mineral (S1) (	-				•,		bed or problematic.	
	leyed Matrix (S4)		Delta Ochric (F17) (MLRA 151) disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B)						
	edox (S5)		Piedmont Flo	. , .			241		
	Matrix (S6)						-	1520)	
	face (S7) <b>(LRR P, S</b>	s т н)		Shynt Luan	IIY SUIS (F.		A 149A, 153C,	, 155D)	
		<b>0</b> , 1, <b>0</b> )							
Restrictive	Layer (if observed	):							
Type:					Hvd	ric Soil Pr	asont?	Yes	No X
Depth (ir	nches):				inya		count:	103	
Remarks:	·								

Project/Site: Daly Farms Site	City/County: Sunset/St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-7
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.) Depression surrounded by spoil Loca	al relief (concave, convex, none): <u>none</u> Slope (%): <u>0-1</u>
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'29.87	7"N Long: <u>92° 6'6.23"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Frost silt loam, 0 to 1 percent slopes (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 X significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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? Hydric Soil Present? Wetland Hydrology Present?	Yes         X         No            Yes         X         No            Yes         X         No	Is the Sampled Area within a Wetland? Yes X No			
Remarks:					
The sample point is located within a forested area on the western portion of the site between two spoil banks. This area is impounded by spoil material deposited during the dredging of Bayou Bourbeaux. There is no apparent connection to Waters of the US.					

Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; church         Surface Water (A1)         High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Inundation Visible on Aerial Imagery (B7)         X         Water-Stained Leaves (B9)	eck all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) X Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required)
Field Observations: Surface Water Present? Yes No X	Depth (inches):	
Surface Water Present?         Yes No_X_           Water Table Present?         Yes No_X_		
Saturation Present? Yes X No (includes capillary fringe)	Wetland Hydrol	ogy Present? Yes <u>X</u> No
Describe Recorded Data (stream gauge, monitoring USGS 7.5-minute topographic map, aerial photogra	g well, aerial photos, previous inspections), if availab aphs	le:
Remarks: Hydrology indicators observed. This area is impou connection to Waters of the US.	nded by spoil material deposited during the dredging	of Bayou Bourbeaux. There is no apparent

				Dominance Test worksheet:
Tree Stratum (Dist size: 20 ft radius)	Absolute	Dominant Species 2	Indicator	
Tree Stratum (Plot size: <u>20 ft radius</u> )	<u>% Cover</u> 70	Species?	Status	Number of Dominant Species
1. Quercus nigra		<u>Y</u>	FAC	That Are OBL, FACW, or FAC: (A)
2				Tatal Number of Deminant
3				Total Number of Dominant Species Across All Strata: 4 (B)
4		·		
5				Percent of Dominant Species
6		<u> </u>		That Are OBL, FACW, or FAC: 100 (A/B)
7				
8				Prevalence Index worksheet:
	70		al Cover	Total % Cover of: Multiply by:
50 % of total cover: 35	20 % of	total cover:	14	OBL species <u>95</u> 1 <u>95</u>
				FACW species 2
Sapling/Shrub Stratum (Plot size: 20 ft radius )				FAC species 140 3 420
1. Triadica sebifera	60	Y	FAC	FACU species 4
2		<u> </u>		
3				
4				Column Totals: <u>235</u> <u>515</u> (B)
5				
6				Prevalence Index = $B/A = 2.19$
7				Hydrophytic Vegetation Indicators:
8				<ul> <li>X 1 – Rapid Test for Hydrophytic Vegetation</li> </ul>
	60	= Tota	al Cover	X 2 – Dominance Test is > 50%
50% of total cover 30	20 % of	total cover:	12	$\times$ 2 – Dominance rest is > 50% X 3 – Prevalence Test is $\le 3.0^1$
Herb Stratum (Plot size: 20 ft radius)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Alternanthera philoxeroides	95	Y	OBL	The disctones of her deits and the dense the set of the
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3				Definitions of Vegetation Strata:
4				Demittoria of Vegetation offata.
5				Tree – Woody plants, excluding woody vines,
6				approximately 20 ft (6 m) or more in height and 3 in.
7.				(7.6 cm) or larger in diameter at breast height (DBH).
8				Sapling – Woody plants, excluding woody vines,
9.				approximately 20 ft (6 m) or more in height and less
10				than 3 in. (7.6 cm) DBH.
11				Shrub – Woody plants, excluding woody vines,
12				approximately 3 to 20 ft (1 to 6 m) in height.
	95	= Tota	al Cover	
50 % of total cover: 47.5		total cover:	19	Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately
Woody Vine Stratum (Plot size:20 ft radius)				3 ft (1 m) in height.
1. <u>Smilax rotundifolia</u>	10	Y	FAC	
2.				Woody vine – All woody vines, regardless of height.
3.				
4				
5.				Hydrophytic
···				Vegetation
		= Total Cov		Present? Yes X No
50 % of total cover: 5	20 % c	of total cover:	2	
Remarks: (Include photo numbers here or on a separat	e sheet.)			
Photographa 22.8.24				
Photographs 23 & 24				

Profile Dese Depth	cription: (Describe Matrix	to the depth		<b>ment the i</b> edox Featu		r confirm	the absence	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 3/1	100					Silt loam	Slight mottles	
7-16	10YR 3/1	85	10YR 4/6	15	RM	М	Silt Clay	Reddish mottles	
				·					
				·					
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covered	d or Coate	d Sand Gr	ains. <sup>2</sup> L	Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Be	elow Surfac	e (S8) <b>(LF</b>	RR S, T, U	)1 cm	Muck (A9) <b>(LRR O)</b>	
Histic Ep	ipedon (A2)		Thin Dark Su	uface (S9)	(LRR S, T,	, U)	2 cm	Muck (A10) <b>(LRR S)</b>	
Black His	stic (A3)		Loamy Gley	ed Matrix (F	=1) (LRR (	<b>)</b> )	Redu	ced Vertic (F18) (outside MLRA 150A,B)	
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (F	-2)		Piedr	nont Floodplain Soils (F19) (LRR P, S, T)	
Stratified	Layers (A5)		X Depleted Ma	atrix (F3)			Anom	alous Bright Loamy Soils (F20)	
Organic	Bodies (A6) (LRR P	Ρ, Τ, U)	Redox Dark	Surface (F	6)		(M	LRA 153B)	
5 cm Mu	cky Mineral (A7) <b>(L</b> l	RR P, T, U)	Depleted Da	rk Surface	(F7)		Red F	Parent Material (TF2)	
Muck Pre	esence (A8) (LRR L	J)	Redox Depressions (F8)				Very Shallow Dark Surface (TF12)		
X 1 cm Mu	ck (A9) (LRR P, T)	-	Marl (F10) (LRR U)				Other	Other (Explain in Remarks)	
	Below Dark Surfac	e (A11)		Depleted Ochric (F11) (MLRA 151)					
	rk Surface (A12)		X Iron Mangan	ese Masse	es (F12) <b>(L</b>	RR O, P, 1	Г) <sub>31 11</sub>		
Coast Pr	airie Redox (A16) (I	MLRA 150A)	Umbric Surface (F13) (LRR P, T, U)				Sindic	ators of Hydrophytic vegetation and nd hydrology must be present, unless	
	ucky Mineral (S1) (	-	Delta Ochric (F17) (MLRA 151)					bed or problematic.	
	leyed Matrix (S4)	-, -,	Reduced Vertic (F18) (MLRA 150A, 150B)					· · · · · · · · · · · · · · · · · · ·	
	edox (S5)		Piedmont Fl			-	9A)		
	Matrix (S6)						A 149A, 153C	153D)	
	face (S7) <b>(LRR P, S</b>	S, T, U)		2g.n 200				,,	
Restrictive	Layer (if observed	):			I				
Type:					Hyd	ric Soil Pr	esent?	Yes X No	
Depth (ir	nches):								
Remarks:									

Project/Site: Daly Farms Site	City/County: Sunset/ St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-8
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.) terrace Loc	cal relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'30.3	0"N Long: <u>92° 6'5.63"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Frost silt loam, 0 to 1 percent slopes (FrA)	NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u> </u>
Are Vegetation <u>X</u> , Soil <u>X</u> , or Hydrology significantly disturbed	? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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	No X			
Hydric Soil Present?	Yes	No	Is the Sampled Area within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes	No			
Remarks:					

The sample point is located within an agricultural field that has been recently plowed. The soils have been disturbed by agricultural practices since at least the 1950s.

Sample point is in the western portion of the site approximately 5 feet from the tree line.

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

	Abachita Dominant Indiactor	Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft radius)	Absolute Dominant Indicator % Cover Species? Status	Number of Dominant Species
1. Not applicable		That Are OBL, FACW, or FAC: (A)
2.		
3		Total Number of Dominant
4		Species Across All Strata: (B)
5		Percent of Dominant Species
6		- That Are OBL, FACW, or FAC: (A/B)
7		_
8	= Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by:
50 % of total cover:		OBL species 1
		FACW species 2
Sapling/Shrub Stratum (Plot size: 20 ft radius )		
d Natanuliashia		FAC species 3
2.		FACU species 4
3		UPL species 5
4		_ Column Totals: (B)
5		-
6		Prevalence Index = B/A =
7		<ul> <li>Hydrophytic Vegetation Indicators:</li> </ul>
8		<ul> <li>1 – Rapid Test for Hydrophytic Vegetation</li> </ul>
EQ9/ of total cover	= Total Cover 20 % of total cover:	2 – Dominance Test is > 50%
		-3 – Prevalence Test is ≤ 3.0 <sup>1</sup>
Herb Stratum (Plot size: <u>20 ft radius</u> )		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
A Net emplicable		
2.		<ul> <li><sup>1</sup>Indicators of hydric soil and wetland hydrology must</li> <li>be present, unless disturbed or problematic.</li> </ul>
3.		<ul> <li>Definitions of Vegetation Strata:</li> </ul>
4		_
5		<b>Tree</b> – Woody plants, excluding woody vines,
6		<ul> <li>approximately 20 ft (6 m) or more in height and 3 in.</li> <li>(7.6 cm) or larger in diameter at breast height (DBH).</li> </ul>
7		-
8		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
9		than 3 in. (7.6 cm) DBH.
10		-
11 12		<ul> <li>Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.</li> </ul>
12	= Total Cover	
50 % of total cover:		Herb – All herbaceous (non-woody) plants, including
		<ul> <li>herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately</li> </ul>
Woody Vine Stratum (Plot size: 20 ft radius)		3 ft (1 m) in height.
2		Woody vine – All woody vines, regardless of height.
3		-
4 5.		
5		_ Hydrophytic Vegetation
	= Total Cover	Present? Yes <u>No X</u>
50 % of total cover:	20 % of total cover: 1	-
Remarks: (Include photo numbers here or on a separat	e sheet.)	
Photographs 25 & 26		

SOIL

(inches)	Color (moist)	%	Color (moist)	dox Featu %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks	
0-16	10YR 4/3	100					Silt loam			
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, C	S=Covere	d or Coate	d Sand Gr	ains. <sup>2</sup> Loc	ation: PL=Pore	Lining, M=M	atrix.
Hydric Soil	Indicators:						Indicator	s for Problemat	ic Hydric S	oils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) <b>(LF</b>	RR S, T, U)	1 cm Mu	ick (A9) <b>(LRR O)</b>		
Histic Ep	ipedon (A2)		Thin Dark Su	lface (S9)	(LRR S, T	, U)	2 cm Mu	ick (A10) <b>(LRR S</b>	5)	
Black His	stic (A3)		Loamy Gleye	ed Matrix (I	=1) (LRR (	<b>)</b>	Reduced	d Vertic (F18) <b>(o</b> u	utside MLR	A 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (I	-2)		Piedmor	nt Floodplain Soil	s (F19) <b>(LR</b>	R P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)			Anomalo	ous Bright Loamy	Soils (F20)	
Organic	Bodies (A6) <b>(LRR P</b>	P, T, U)	Redox Dark	Surface (F	6)		(MLR	A 153B)		
5 cm Mu	cky Mineral (A7) <b>(Ll</b>	RR P, T, U)	Depleted Dark Surface (F7)			Red Parent Material (TF2)				
Muck Pre	esence (A8) <b>(LRR U</b>	J)	Redox Depressions (F8)			Very Shallow Dark Surface (TF12)				
1 cm Mu	ck (A9) <b>(LRR P, T)</b>		Marl (F10) <b>(LRR U)</b>			Other (Explain in Remarks)				
Depleted	Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	MLRA 15	1)				
Thick Da	rk Surface (A12)		Iron Manganese Masses (F12) (LRR O, P, T)			<sup>3</sup> Indicators of Hydrophytic vegetation and			and	
Coast Pr	airie Redox (A16) <b>(I</b>	MLRA 150A)	Umbric Surface (F13) (LRR P, T, U)				wetland hydrology must be present, unless			
Sandy M	ucky Mineral (S1) (I	LRR O, S)	Delta Ochric (F17) (MLRA 151)					d or problematic.		
Sandy G	leyed Matrix (S4)		Reduced Vertic (F18) (MLRA 150A, 150B)							
Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19) <b>(</b>	MLRA 149	PA)			
**	Matrix (S6)		Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)							
Dark Sur	face (S7) <b>(LRR P, S</b>	S, T, U)								
	Layer (if observed	):								
Type:			_		Hyd	ric Soil Pr	esent?	Yes	No	Х
Depth (ir	iches):		_							
Remarks:										

Project/Site: Daly Farms Site	City/County: Sunset/St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-9
Investigator(s): Aaron Bass, Donnie Day S	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.) terrace Loca	relief (concave, convex, none): none Slope (%): 1-3
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'41.09	N Long: <u>92° 6'8.74"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Coteau silt loam, 1 to 3 percent slopes (Cp)	NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>No X</u> (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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	No X	la tha Campulad Ana a		
Hydric Soil Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Wetland Hydrology Present?	Yes X	No			
Remarks:					

The sample point is located within an agricultural field that has been recently plowed. The soils have been disturbed by agricultural practices since at least the 1950s.

Sample point is in the northwest corner of the site.

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; ch	Surface Soil Cracks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)		
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Drift Deposits (B3)	X Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)		
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)		
Field Observations:				
Surface Water Present? Yes No X	Depth (inches):			
Water Table Present? Yes No X	Depth (inches): Wetland Hydrol	ogy Present? Yes X No		
Saturation Present? Yes No X	Depth (inches):			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitorin USGS 7.5-minute topographic map, aerial photogra	g well, aerial photos, previous inspections), if availab aphs	le:		
Remarks:				
Hvdrology indicators observed. Area appears to be	a well-drained. Drainage appears to be towards the	south.		
, , , , , , , , , , , , , , , , , , , ,	0 11			

		Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft radius)	Absolute Dominant Indicator % Cover Species? Status	Number of Dominant Species
1. Not applicable		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		
		- Total Number of Dominant
3 4		Species Across All Strata: (B)
5.		-
6		Percent of Dominant Species
7		- That Are OBL, FACW, or FAC: (A/B)
8.		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
50 % of total cover:	20 % of total cover:	OBL species 1
		FACW species 2
Sapling/Shrub Stratum (Plot size: 20 ft radius )		FAC species 3
1. Not applicable		FACU species 4
2		
3		UPL species 5
4		_ Column Totals: (B)
5		-
6		Prevalence Index = B/A =
7		- Hydrophytic Vegetation Indicators:
8		<ul> <li>1 – Rapid Test for Hydrophytic Vegetation</li> </ul>
	= Total Cover	2 – Dominance Test is > 50%
50% of total cover	20 % of total cover:	$-3 - Prevalence Test is \le 3.0^1$
Horb Strotum (Diot size: 20 ft radius)		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: <u>20 ft radius</u> ) 1. Not applicable		· · · · · · · · · · · · · · · · ·
		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		<ul> <li>Definitions of Vegetation Strata:</li> </ul>
-		<ul> <li>Tree – Woody plants, excluding woody vines,</li> </ul>
6		approximately 20 ft (6 m) or more in height and 3 in.
7		(7.6 cm) or larger in diameter at breast height (DBH).
8		<ul> <li>Sapling – Woody plants, excluding woody vines,</li> </ul>
9.		approximately 20 ft (6 m) or more in height and less
10		than 3 in. (7.6 cm) DBH.
11		<ul> <li>Shrub – Woody plants, excluding woody vines,</li> </ul>
12		approximately 3 to 20 ft (1 to 6 m) in height.
	= Total Cover	
50 % of total cover:	20 % of total cover:	Herb – All herbaceous (non-woody) plants, including
		<ul> <li>herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately</li> </ul>
Woody Vine Stratum (Plot size: 20 ft radius)		3 ft (1 m) in height.
1. Not applicable		
2		Woody vine – All woody vines, regardless of height.
3		_
4		_
5		Hydrophytic
	= Total Cover	Vegetation Present? Yes No X
50 % of total cover:	20 % of total cover: 1	Present? Yes <u>No X</u>
		-
Remarks: (Include photo numbers here or on a separa	ate sheet.)	
Dhatawanda		
Photographs		

Depth (inches)	Matrix Color (moist)	%	Color (moist)	edox Featu %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 5/3	95	10YR 4/6	5	RM	М	Silt loam	
4-16	10YR 5/2	80	10YR 4/6	20	RM	М	Clay	Grey/ reddish mottles
Type: C=C Hydric Soil Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pre 1 cm Mu Depletec	oncentration, D=De Indicators: (A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Bodies (A6) (LRR F cky Mineral (A7) (Ll esence (A8) (LRR L ck (A9) (LRR P, T) I Below Dark Surfac	P, T, U) RR P, T, U)	Reduced Matrix, C Polyvalue Be Thin Dark St Loamy Gleye X Loamy Gleye X Depleted Ma Redox Dark Depleted Da Redox Depre Marl (F10) (I Depleted Oc	ES=Covere elow Surfac uface (S9) ed Matrix ( ed Matrix ( atrix (F3) Surface (F urk Surface essions (F LRR U) chric (F11)	d or Coated (LRR S, T, F1) (LRR C F2) (F7) 8) (MLRA 151	d Sand Gi R S, T, U U)	rains. <sup>2</sup> L Indica Indica Indica Indica Comparison Indica Indic	Location: PL=Pore Lining, M=Matrix. tors for Problematic Hydric Soils <sup>3</sup> : Muck (A9) (LRR O) Muck (A10) (LRR S) ced Vertic (F18) (outside MLRA 150A,B mont Floodplain Soils (F19) (LRR P, S, T) palous Bright Loamy Soils (F20) LRA 153B) Parent Material (TF2) Shallow Dark Surface (TF12) (Explain in Remarks)
Coast Pr Sandy M Sandy G Sandy R Sandy R	rk Surface (A12) airie Redox (A16) (I ucky Mineral (S1) ( leyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S	LRR O, S)	X Iron Mangan Umbric Surfa Delta Ochric Reduced Ve Piedmont Fla Anomalous I	ace (F13) <b>(</b> : (F17) <b>(ML</b> ertic (F18) <b>(</b> oodplain S	(LRR P, T, RA 151) MLRA 150 oils (F19) (I	U) A, 150B) MLRA 14	wetla	ators of Hydrophytic vegetation and nd hydrology must be present, unless bed or problematic. , <b>153D)</b>
Restrictive Type:	Layer (if observed	):						
Depth (ir	iches):				Hydi	ric Soil P	resent?	Yes <u>X</u> No
Remarks:								

Project/Site: Daly Farms Site	City/County: Sunset/ St. Landry Sampling Date: 04/17/2020
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-10
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.) terrace Loca	I relief (concave, convex, none): none Slope (%): 0-1
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'40.54	"N Long: <u>92° 6'0.22"W</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Coteau silt loam, 0 to 1 percent slopes (Co)	NWI Classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>No X</u> (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally 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? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:			<b>.</b>		

The sample point is located within an agricultural field that has been recently plowed. The soils have been disturbed by agricultural practices since at least the 1950s.

Sample point is in the northeast corner of the site.

Wetland Hydrology Indicators:           Primary Indicators (minimum of one is r           Surface Water (A1)           High Water Table (A2)           Saturation (A3)           Water Marks (B1)           Sediment Deposits (B2)           Drift Deposits (B3)           Algal Mat or Crust (B4)           Inundation Visible on Aerial Image           Water-Stained Leaves (B9)		eck all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRF Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark	C1) n Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) 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):	Wetland Hydrolo	ogy Present? Yes No _X
Saturation Present? Yes (includes capillary fringe)	No <u>X</u>	Depth (inches):	Welland Hydron	
Describe Recorded Data (stream gauge USGS 7.5-minute topographic map, ae			spections), if availab	le:
Remarks:				
No hydrology indicators observed. Area	a appears to	be a well-drained.		

	Abacluta Dominant Indiactor	Dominance Test worksheet:
Tree Stratum (Plot size: <u>20 ft radius</u> ) 1. <u>Not applicable</u>	Absolute Dominant Indicator <u>% Cover</u> <u>Species?</u> <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3 4		Total Number of Dominant Species Across All Strata: (B)
5 6 7		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
8.		Prevalence Index worksheet:
50 % of total cover:	= Total Cover	Total % Cover of:     Multiply by:       OBL species     1
		FACW species         2
Sapling/Shrub Stratum (Plot size: 20 ft radius )		FAC species 3
		FACU species 4
2. 3.		UPL species 5
3		Column Totals: (B)
5.		-
6		Prevalence Index = B/A =
7		- Hydrophytic Vegetation Indicators:
8	= Total Cover	<ul> <li>1 – Rapid Test for Hydrophytic Vegetation</li> </ul>
50% of total cover	20 % of total cover:	2 – Dominance Test is > 50%
		$= 3 - \text{Prevalence Test is} \le 3.0^{1}$
Herb Stratum (Plot size: 20 ft radius)		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Not applicable		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2. 3.		<ul> <li>be present, unless disturbed or problematic.</li> </ul>
4		<ul> <li>Definitions of Vegetation Strata:</li> </ul>
4. 5		Tree – Woody plants, excluding woody vines,
6.		<ul> <li>approximately 20 ft (6 m) or more in height and 3 in.</li> <li>(7.6 cm) or larger in diameter at breast height (DBH).</li> </ul>
7		-
8		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
9		than 3 in. (7.6 cm) DBH.
10 11		<ul> <li>Shrub – Woody plants, excluding woody vines,</li> </ul>
12		approximately 3 to 20 ft (1 to 6 m) in height.
	= Total Cover	Herb – All herbaceous (non-woody) plants, including
50 % of total cover: Woody Vine Stratum (Plot size:20 ft radius)	20 % of total cover:	<ul> <li>herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.</li> </ul>
1. Not applicable		、 ,
2.		Woody vine – All woody vines, regardless of height.
3		-
4 5		- Underschudie
5	= Total Cover	_ Hydrophytic Vegetation
50 % of total cover	20 % of total cover: 1	Present? Yes <u>No X</u>
		-
Remarks: (Include photo numbers here or on a separat	e sheet.)	
Photographs 29 & 30		

SOIL	
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Profile Des Depth	cription: (Describe Matrix			ment the in edox Featur		r confirm	the abser	nce of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks			
0-9	10YR 4/3	100					Silt loan	n			
9-16	10YR 4/4	100					Silt loan				
						·		····			
						·					
	·	·									
						·					
<sup>1</sup> Type: C=C	concentration, D=De	epletion, RM=R	educed Matrix, C	S=Covered	or Coate	d Sand Gra	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators:						Inc	dicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol			Polyvalue Be	elow Surface	e (S8) <b>(LR</b>	R S, T, U)		cm Muck (A9) (LRR O)			
	pipedon (A2)		Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Suface (S9) (LRR S, T, U)					2 cm Muck (A10) (LRR S)			
Black Hi			Loamy Gley			-		educed Vertic (F18) (outside MLRA 150A,B)			
	n Sulfide (A4)		Loamy Gley		<i>,</i> .	,	Piedmont Floodplain Soils (F19) (LRR P, S, T				
	Layers (A5)		Depleted Ma		,			nomalous Bright Loamy Soils (F20)			
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	. ,	5)			(MLRA 153B)			
	cky Mineral (A7) <b>(L</b>	-	Depleted Da		,		R	Red Parent Material (TF2)			
	esence (A8) (LRR I	-	 Redox Depre				V	Very Shallow Dark Surface (TF12)			
	ck (A9) (LRR P, T)	-	Marl (F10) (I					ther (Explain in Remarks)			
	Below Dark Surfac		Depleted Ochric (F11) (MLRA 151)								
Thick Da	ark Surface (A12)		Iron Manganese Masses (F12) (LRR O, P, T)				<b>()</b> 31				
Coast Pr	airie Redox (A16) (	MLRA 150A)	Umbric Surfa	ace (F13) <b>(L</b>	RR P, T,	U)		<sup>3</sup> Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless			
Sandy Mucky Mineral (S1) (LRR O, S)		Delta Ochric (F17) (MLRA 151)					disturbed or problematic.				
Sandy G	Sandy Gleyed Matrix (S4)		Reduced Vertic (F18) (MLRA 150A, 150B)								
	edox (S5)					-	A)				
	Matrix (S6)			Piedmont Floodplain Soils (F19) <b>(MLRA 149A)</b> Anomalous Bright Loamy Soils (F20) <b>(MLRA 149A, 153C, 153D)</b>							
Dark Su	face (S7) (LRR P,	S, T, U)									
Restrictive	Layer (if observed	I):									
Type:					Hvd	ric Soil Pro	esent?	Yes No X			
Depth (ir	nches):		_					· · · ·			
Remarks:			_								
Romano.											

Project/Site: Daly Farms Site City/County: Sunset/ St. Landry Sampling Date					
Applicant/Owner: One Acadiana	State: Louisiana Sampling Point: DP-11				
Investigator(s): Aaron Bass, Donnie Day	Section, Township, Range: <u>N/A</u>				
Landform (hillslope, terrace, etc.) terrace Loca	l relief (concave, convex, none): none Slope (%): 1-3				
Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'28.26	"N Long: <u>92° 5'58.62"W</u> Datum: <u>WGS84</u>				
Soil Map Unit Name: Coteau silt loam, 1 to 3 percent slopes (Cp)	NWI Classification: N/A				
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>No X</u> (If no, explain in Remarks.)				
Are Vegetation X, Soil X, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrologynaturally 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? Hydric Soil Present?	Yes Yes	No <u>X</u> No X	Is the Sampled Area within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes	No X		165	
Remarks:					

The sample point is located within an agricultural field that has been recently plowed. The soils have been disturbed by agricultural practices since at least the 1950s.

Sample point is in the central east portion of the site.

Wetland Hydrology Indicators:           Primary Indicators (minimum of one is r           Surface Water (A1)           High Water Table (A2)           Saturation (A3)           Water Marks (B1)           Sediment Deposits (B2)           Drift Deposits (B3)           Algal Mat or Crust (B4)           Iron Deposits (B5)           Inundation Visible on Aerial Image           Water-Stained Leaves (B9)		eck all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRF Hydrogen Sulfide Odor (C Oxidized Rhizospheres o Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark	C1) n Living Roots (C3) n (C4) Tilled Soils (C6)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)		
Field Observations:		Danth (inchas)				
		Depth (inches):				
		Depth (inches): Depth (inches):	Wetland Hydrold	ogy Present? Yes <u>No X</u>		
Describe Recorded Data (stream gauge USGS 7.5-minute topographic map, ae			spections), if availabl	e:		
Remarks: No hydrology indicators observed. Area	a appears to	b be a well-drained. Drainage ap	pears to be towards	the west.		

E

	Absoluto Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>20 ft radius</u> ) 1. <u>Not applicable</u>	Absolute Dominant Indicator <u>% Cover</u> Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3 4		Total Number of Dominant Species Across All Strata: (B)
5 6 7		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
8		Prevalence Index worksheet:
	= Total Cover	Total % Cover of: Multiply by:
50 % of total cover:	20 % of total cover:	OBL species 1
Sapling/Shrub Stratum (Plot size: 20 ft radius )		FACW species 2
1 Not applicable		FAC species         3            FACU species         4
2		
3		UPL species 5
4 5.		Column Totals: (B)
		-
7.		- Prevalence Index = B/A =
8.		<ul> <li>Hydrophytic Vegetation Indicators:</li> <li>1 – Rapid Test for Hydrophytic Vegetation</li> </ul>
	= Total Cover	2 – Dominance Test is > 50%
50% of total cover	20 % of total cover:	$-3 - \text{Prevalence Test is } \leq 3.0^{1}$
Userb Oterstore (Distribute 00 (treading))		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: <u>20 ft radius</u> ) 1. Not applicable		
2		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.		<ul> <li>be present, unless disturbed or problematic.</li> <li>Definitions of Vegetation Strata:</li> </ul>
4.		Demnitions of vegetation Strata:
5		<b>Tree</b> – Woody plants, excluding woody vines,
6		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
7		-
8		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
9 10		than 3 in. (7.6 cm) DBH.
11		<ul> <li>Shrub – Woody plants, excluding woody vines,</li> </ul>
12		approximately 3 to 20 ft (1 to 6 m) in height.
	= Total Cover	Herb All herbasseus (non woody) plants including
50 % of total cover: Woody Vine Stratum (Plot size:20 ft radius)	20 % of total cover:	<ul> <li>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.</li> </ul>
1 Not applicable		
2.		Woody vine – All woody vines, regardless of height.
3		_
4		-
5		_ Hydrophytic Vegetation
	= Total Cover	Present? Yes <u>No X</u>
50 % of total cover:	20 % of total cover:1	-
Remarks: (Include photo numbers here or on a separat	e sheet.)	
	,	
Photographs 31 & 32		

Profile Des Depth	cription: (Describe Matrix			<b>nent the i</b> dox Featu		or confirm	the abser	nce of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks		
0-4	10YR 4/3	100					Silt loan	n		
4-16	10YR 5/3	70	10YR 4/6	30	RM	M	Clay			
	10110 3/3		1011( 4/0				Oldy			
	·									
<sup>1</sup> Type: C=C	Concentration, D=De	epletion, RM=R	educed Matrix, C	S=Covered	d or Coate	d Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Inc	licators for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue Be	elow Surfac	ce (S8) <b>(Ll</b>	RR S, T, U	)1	cm Muck (A9) <b>(LRR O)</b>		
Histic Ep	oipedon (A2)		Thin Dark Suface (S9) (LRR S, T, U)					2 cm Muck (A10) (LRR S)		
Black Hi	stic (A3)		Loamy Gleye	ed Matrix (F	=1) (LRR (	0)	R	educed Vertic (F18) (outside MLRA 150A,B)		
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F	=2)		Р	Piedmont Floodplain Soils (F19) (LRR P, S, T)		
Stratified	Layers (A5)		Depleted Ma	trix (F3)			A	nomalous Bright Loamy Soils (F20)		
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		6)			(MLRA 153B)		
	icky Mineral (A7) <b>(L</b>	· · ·	Depleted Da	rk Surface	(F7)		R	Red Parent Material (TF2)		
	esence (A8) (LRR I	-	Redox Depre	essions (F8	3)		V	Very Shallow Dark Surface (TF12)		
	ick (A9) (LRR P, T)	-	Marl (F10) (L		,		Other (Explain in Remarks)			
	Below Dark Surfac		Depleted Oc	-	MLRA 15	1)				
	ark Surface (A12)					-	T)			
	rairie Redox (A16) (	(MLRA 150A)	Iron Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)				· ·	<sup>3</sup> Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
	lucky Mineral (S1)									
	leyed Matrix (S4)	( 0, 0)	Reduced Vertic (F18) (MLRA 150A, 150B)							
	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA 149A)							
	Matrix (S6)		Anomalous E			-	-	S2C 152D)		
	rface (S7) <b>(LRR P,</b>	S, T, U)			iy 3013 (1		- 143 <b>-</b> , 1	, 130)		
Restrictive Type:	Layer (if observed	ł):								
Depth (ii	nches):		_		Hyd	ric Soil Pr	resent?	Yes NoX		
Remarks:			_							
rtemanto.										

Appendix C Photographic Documentation



1. Westerly view along the southern edge of the site



2. Northerly view across the site



3. Southeast corner of the site



4. Typical field drain installed along the western edge of the site



5. Stream 1 (S1)



6. Stream 2 (S2)



7. Stream 3 (S3)



9. Stream 4 (S4)



8. Stream 4 (S4)



10. Stream 5 (Bayou Bourbeaux)



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



21. DP6 landscape view



20. Southerly view along the eastern edge of the site



22. DP6 soils



23. DP7 (Wetland 1)



24. DP7 soils



25. DP8 landscape view



26. DP8 soils



27. DP9 landscape view



28. DP9 soils



29. DP10 landscape view



30. DP10 soils



31. DP11 landscape view



32. DP11 soils