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Exhibit EE.
Daly Farms Site
Wetlands Delineation Report

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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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Baton Rouge, LA 70884-2466

Contents

SECTION 1

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.

SECTION 2

Methodology

2.1 Desktop Review

Prior to conducting field surveys, a desktop review of potential wetlands and non-wetland WOUS and jurisdictional status of these features was completed using Natural Resources Conservation Service (NRCS) soil data; 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 (Reed 1988), appropriate synonymy was used to reference the national list.

TABLE 1
Definitions for Wetland Indicator Status

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

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

SECTION 3

Desktop Review

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 https://hazards-fema.maps.arcgis.com).

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 (http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx). 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.

SECTION 4

Site Visit Results

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 non-wetland 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

SECTION 6

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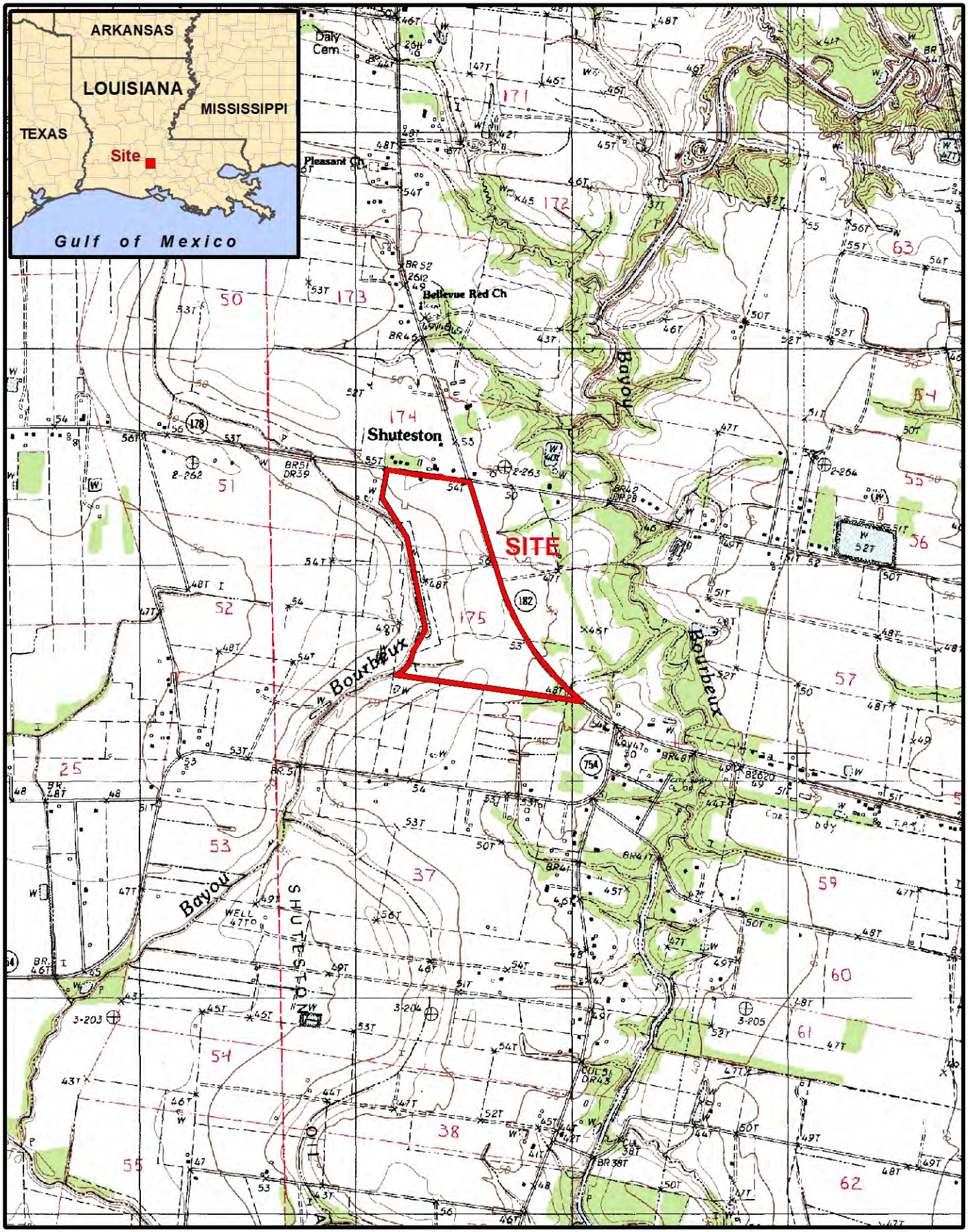
Appendix A
Figures



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

0 500 1,000 2,000 Feet

N

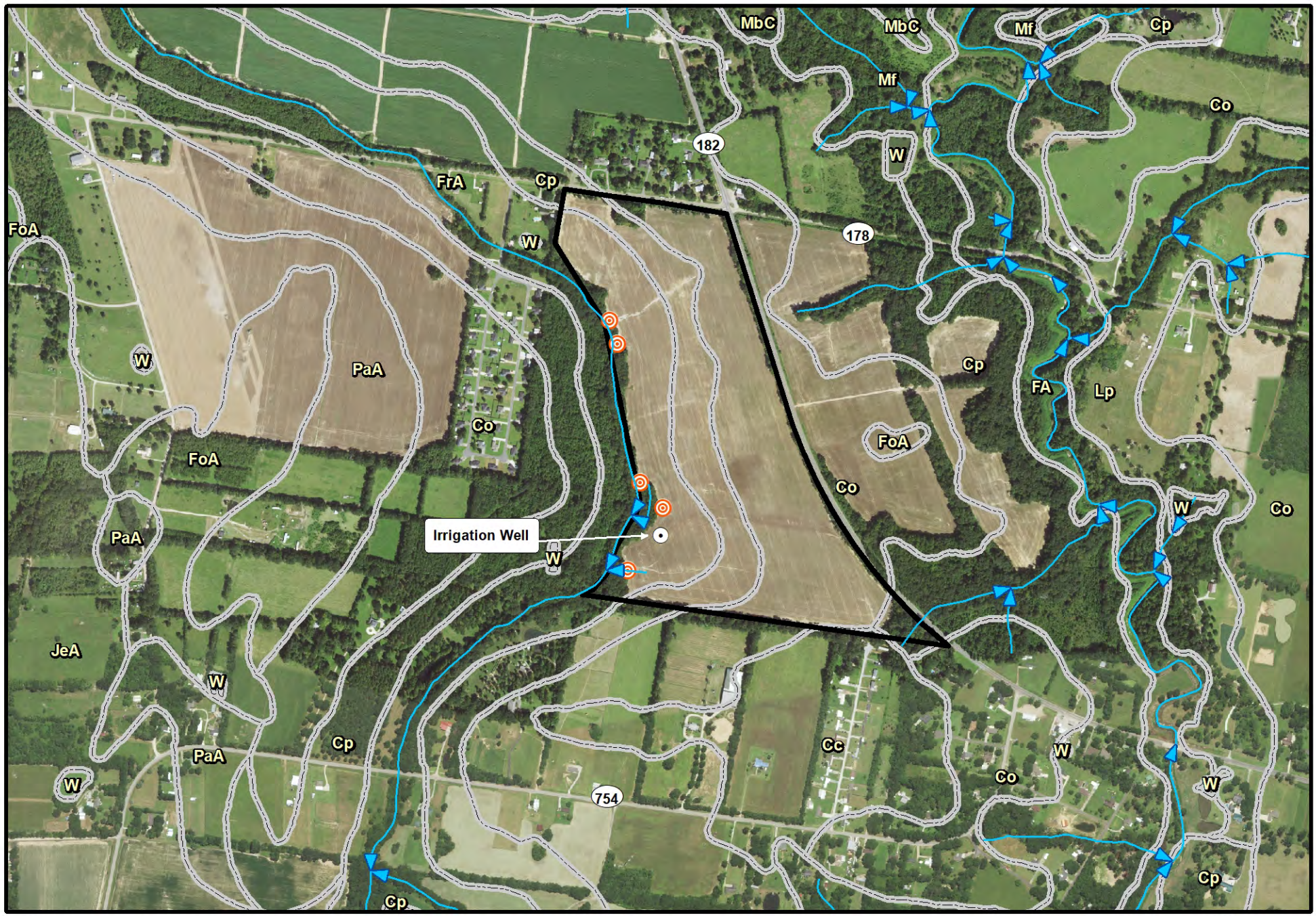
FIGURE 1
Vicinity Map

Wetland Delineation
Daly Farms Site
St. Landry Parish, Louisiana

Date: 04/23/2020
Map ID: CMS2020-015

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

Chenier Environmental Consulting, LLC



LEGEND

- Project Area
- USGS NHD Stream
- NRCS Soils (SSURGO)
- Drain Pipe

FIGURE 2
Existing Conditions Map

Wetland Delineation
Daly Farms Site
St. Landry Parish, Louisiana

Map Scale: 1:12,000
1 Inch = 1,000 Feet

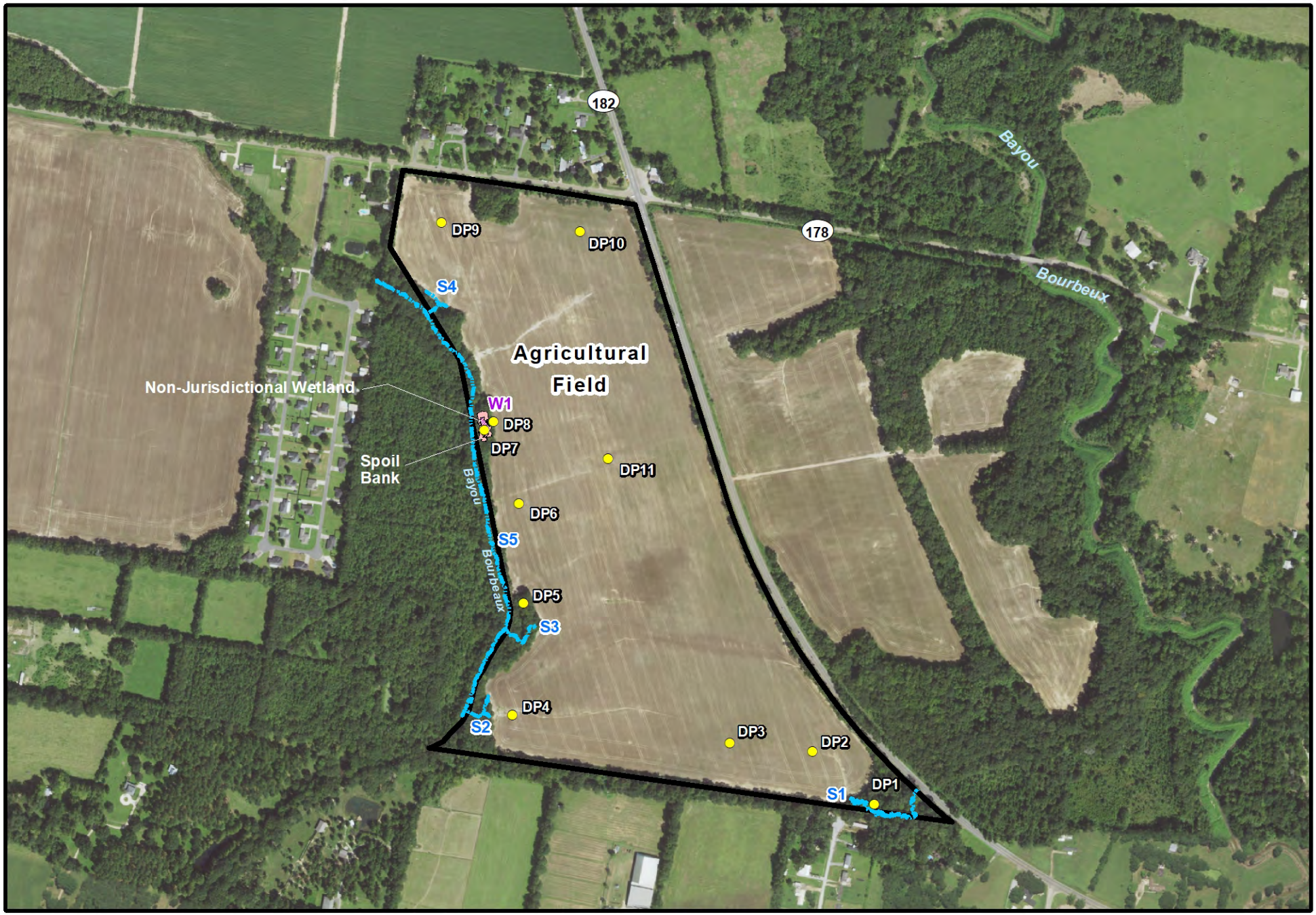
0 250 500 1,000 Feet

N

Date: 04/23/2020
Map ID: CMS2020-016

Chenier Environmental Consulting, LLC

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



LEGEND

- Project Area
- Data Point
- Wetlands (0.00 ac.)
- Non-Jurisdictional Wetlands (0.06 ac.)
- Non-Jurisdictional Waters (0 linear ft.)
- 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

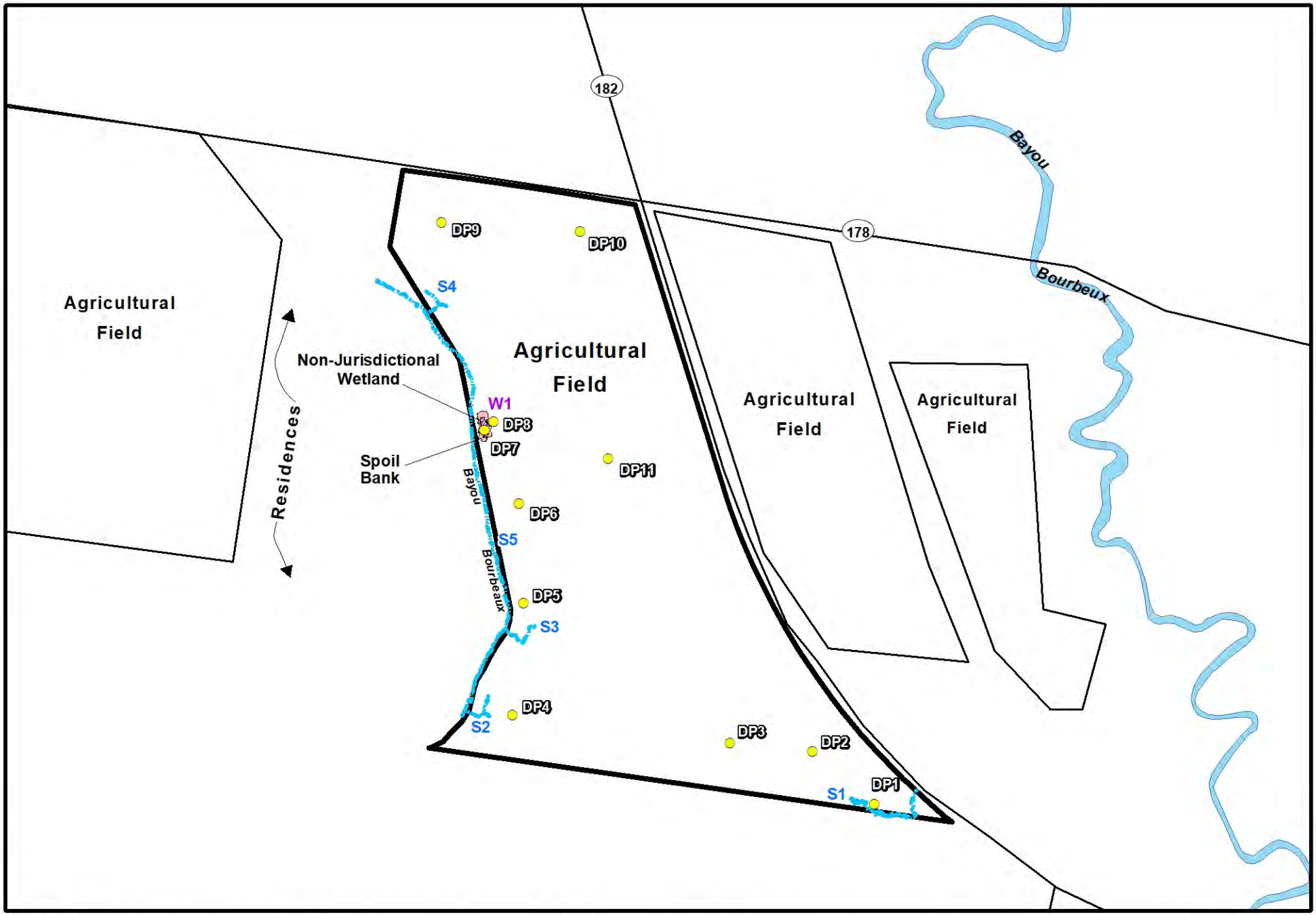
0 175 350 700 Feet

N

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

Chenier Environmental Consulting, LLC

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



LEGEND

- Project Area
- Data Point
- Wetlands (0.00 ac.)
- Non-Jurisdictional Wetlands (0.06 ac.)
- Non-Jurisdictional Waters (0 linear ft.)
- Non-Wetland Waters (3,597 linear ft.)

FIGURE 4
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

N

Date: 04/23/2020
Map ID: CMS2020-018

Chenier Environmental Consulting, LLC

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

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: N/A

Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none): none Slope (%): 1-3

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'9.97"N Long: 92° 5'42.40"W Datum: WGS84

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 Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
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; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained. Drainage appears to be towards the south.

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

Sampling Point DP-1

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Celtis laevigata	80	Y	FACW
2. Quercus nigra	10	N	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	90	= Total Cover	

50 % of total cover: 45 20 % of total cover: 18

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Ligustrum sinense	75	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	75	= Total Cover	

50% of total cover 37.5 20 % of total cover: 15

Herb Stratum (Plot size: 20 ft radius)			
1. Parthenocissus quinquefolia	80	Y	FACU
2. Toxicodendron radicans	10	N	FAC
3. Galium aparine	5	N	FACU
4. Trifolium sp.	5	N	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100	= Total Cover	

50 % of total cover: 50 20 % of total cover: 20

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Smilax rotundifolia	25	Y	FAC
2.			
3.			
4.			
5.			
	25	= Total Cover	

50 % of total cover: 12.5 20 % of total cover: 5

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		1	
FACW species	80	2	80
FAC species	125	3	375
FACU species	85	4	340
UPL species		5	
Column Totals:	290		795 (B)

Prevalence Index = B/A = 2.74

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

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

Photographs 11 & 12

SOIL

Sampling Point: DP-1

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

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

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

Hydric Soil Indicators:

- ___Histosol (A1)
- ___Histic Epipedon (A2)
- ___Black Histic (A3)
- ___Hydrogen Sulfide (A4)
- ___Stratified Layers (A5)
- ___Organic Bodies (A6) **(LRR P, T, U)**
- ___5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ___Muck Presence (A8) **(LRR U)**
- ___1 cm Muck (A9) **(LRR P, T)**
- ___Depleted Below Dark Surface (A11)
- ___Thick Dark Surface (A12)
- ___Coast Prairie Redox (A16) **(MLRA 150A)**
- ___Sandy Mucky Mineral (S1) **(LRR O, S)**
- ___Sandy Gleyed Matrix (S4)
- ___Sandy Redox (S5)
- ___Stripped Matrix (S6)
- ___Dark Surface (S7) **(LRR P, S, T, U)**
- ___Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ___Thin Dark Suface (S9) **(LRR S, T, U)**
- ___Loamy Gleyed Matrix (F1) **(LRR O)**
- ___Loamy Gleyed Matrix (F2)
- ___Depleted Matrix (F3)
- ___Redox Dark Surface (F6)
- ___Depleted Dark Surface (F7)
- ___Redox Depressions (F8)
- ___Marl (F10) **(LRR U)**
- ___Depleted Ochric (F11) **(MLRA 151)**
- ___Iron Manganese Masses (F12) **(LRR O, P, T)**
- ___Umbric Surface (F13) **(LRR P, T, U)**
- ___Delta Ochric (F17) **(MLRA 151)**
- ___Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ___Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- ___Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

- ___1 cm Muck (A9) **(LRR O)**
- ___2 cm Muck (A10) **(LRR S)**
- ___Reduced Vertic (F18) **(outside MLRA 150A,B)**
- ___Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
- ___Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
- ___Red Parent Material (TF2)
- ___Very Shallow Dark Surface (TF12)
- ___Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

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 Local relief (concave, convex, none): none Slope (%): 0-1

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'12.68"N Long: 92° 5'46.13"W Datum: WGS84

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 ____, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

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; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained. Drainage appears to be towards the south.

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point DP-2

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50% of total cover _____ 20 % of total cover: _____

Herb Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	_____	1	_____
FACW species	_____	2	_____
FAC species	_____	3	_____
FACU species	_____	4	_____
UPL species	_____	5	_____
Column Totals:	_____		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

Photographs 13 & 14

SOIL

Sampling Point: DP-2

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 4/3	100					Silt loam	Dark Brown
6-12	10YR 5/3	80	10YR 4/6	20	RM	M	Clay	Reddish Mottles

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

Hydric Soil Indicators:

___Histosol (A1)
___Histic Epipedon (A2)
___Black Histic (A3)
___Hydrogen Sulfide (A4)
___Stratified Layers (A5)
___Organic Bodies (A6) **(LRR P, T, U)**
___5 cm Mucky Mineral (A7) **(LRR P, T, U)**
___Muck Presence (A8) **(LRR U)**
___1 cm Muck (A9) **(LRR P, T)**
___Depleted Below Dark Surface (A11)
___Thick Dark Surface (A12)
___Coast Prairie Redox (A16) **(MLRA 150A)**
___Sandy Mucky Mineral (S1) **(LRR O, S)**
___Sandy Gleyed Matrix (S4)
___Sandy Redox (S5)
___Stripped Matrix (S6)
___Dark Surface (S7) **(LRR P, S, T, U)**
___Polyvalue Below Surface (S8) **(LRR S, T, U)**
___Thin Dark Suface (S9) **(LRR S, T, U)**
___Loamy Gleyed Matrix (F1) **(LRR O)**
___Loamy Gleyed Matrix (F2)
___Depleted Matrix (F3)
___Redox Dark Surface (F6)
___Depleted Dark Surface (F7)
___Redox Depressions (F8)
___Marl (F10) **(LRR U)**
___Depleted Ochric (F11) **(MLRA 151)**
___Iron Manganese Masses (F12) **(LRR O, P, T)**
___Umbric Surface (F13) **(LRR P, T, U)**
___Delta Ochric (F17) **(MLRA 151)**
___Reduced Vertic (F18) **(MLRA 150A, 150B)**
___Piedmont Floodplain Soils (F19) **(MLRA 149A)**
___Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

___1 cm Muck (A9) **(LRR O)**
___2 cm Muck (A10) **(LRR S)**
___Reduced Vertic (F18) **(outside MLRA 150A,B)**
___Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
___Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
___Red Parent Material (TF2)
___Very Shallow Dark Surface (TF12)
___Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

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-3

Investigator(s): Aaron Bass, Donnie Day Section, Township, Range: N/A

Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none): none Slope (%): 0-1

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'13.11"N Long: 92° 5'51.27"W Datum: WGS84

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 ____ No X (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 Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

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; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained.

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point DP-3

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50% of total cover _____ 20 % of total cover: _____

Herb Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: 1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	_____	1	_____
FACW species	_____	2	_____
FAC species	_____	3	_____
FACU species	_____	4	_____
UPL species	_____	5	_____
Column Totals:	_____		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

Photographs 15 & 16

SOIL

Sampling Point: DP-3

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 4/3	100					Silt loam	
10-16	10YR 5/2	100					Clay	

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

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: N/A

Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none): none Slope (%): 0-1

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'15.51"N Long: 92° 6'0.58"W Datum: WGS84

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 ____ No X (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 Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

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

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained. Drainage appears to be towards the south

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point DP-4

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50% of total cover _____ 20 % of total cover: _____

Herb Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	_____	1	_____
FACW species	_____	2	_____
FAC species	_____	3	_____
FACU species	_____	4	_____
UPL species	_____	5	_____
Column Totals:	_____		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

Photographs 17 & 18

SOIL

Sampling Point: DP-4

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/3	100					Silt loam	
12-16	10YR 2/1	100					Clay	Very Dark

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

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

Investigator(s): Aaron Bass, Donnie Day Section, Township, Range: N/A

Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none): none Slope (%): 0-1

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'20.72"N Long: 92° 6'3.93"W Datum: WGS84

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 ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No ____	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:
The sample point is located within a forested area on the western portion of the site along Bayou Bourbeaux.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained. Drainage appears to be towards the east.

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point DP-5

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus nigra	90	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	90	= Total Cover	

50 % of total cover: 45 20 % of total cover: 18

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Ligustrum sinense	70	Y	FAC
2. Prunus serotina	5	N	FACW
3.			
4.			
5.			
6.			
7.			
8.			
	75	= Total Cover	

50% of total cover 37.5 20 % of total cover: 15

Herb Stratum (Plot size: 20 ft radius)			
1. Parthenocissus quinquefolia	65	Y	FACU
2. Toxicodendron radicans	10	N	FAC
3. Sambucus nigra	5	N	FAC
4. .			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	80	= Total Cover	

50 % of total cover: 40 20 % of total cover: 16.04

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Smilax rotundifolia	15	Y	FAC
2.			
3.			
4.			
5.			
	15	= Total Cover	

50 % of total cover: 7.5 20 % of total cover: 3

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		1	
FACW species	5	2	10
FAC species	190	3	570
FACU species	65	4	260
UPL species		5	
Column Totals:	260		840 (B)

Prevalence Index = B/A = 3.23

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

X 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

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

Photograph 19

SOIL

Sampling Point: DP-5

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/2	100					Silt Loam	

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

Hydric Soil Indicators:

___Histosol (A1)
___Histic Epipedon (A2)
___Black Histic (A3)
___Hydrogen Sulfide (A4)
___Stratified Layers (A5)
___Organic Bodies (A6) **(LRR P, T, U)**
___5 cm Mucky Mineral (A7) **(LRR P, T, U)**
___Muck Presence (A8) **(LRR U)**
___1 cm Muck (A9) **(LRR P, T)**
___Depleted Below Dark Surface (A11)
___Thick Dark Surface (A12)
___Coast Prairie Redox (A16) **(MLRA 150A)**
___Sandy Mucky Mineral (S1) **(LRR O, S)**
___Sandy Gleyed Matrix (S4)
___Sandy Redox (S5)
___Stripped Matrix (S6)
___Dark Surface (S7) **(LRR P, S, T, U)**
___Polyvalue Below Surface (S8) **(LRR S, T, U)**
___Thin Dark Suface (S9) **(LRR S, T, U)**
___Loamy Gleyed Matrix (F1) **(LRR O)**
___Loamy Gleyed Matrix (F2)
___Depleted Matrix (F3)
___Redox Dark Surface (F6)
___Depleted Dark Surface (F7)
___Redox Depressions (F8)
___Marl (F10) **(LRR U)**
___Depleted Ochric (F11) **(MLRA 151)**
___Iron Manganese Masses (F12) **(LRR O, P, T)**
___Umbric Surface (F13) **(LRR P, T, U)**
___Delta Ochric (F17) **(MLRA 151)**
___Reduced Vertic (F18) **(MLRA 150A, 150B)**
___Piedmont Floodplain Soils (F19) **(MLRA 149A)**
___Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

___1 cm Muck (A9) **(LRR O)**
___2 cm Muck (A10) **(LRR S)**
___Reduced Vertic (F18) **(outside MLRA 150A,B)**
___Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
___Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
___Red Parent Material (TF2)
___Very Shallow Dark Surface (TF12)
___Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

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 Local relief (concave, convex, none): none Slope (%): 0-1

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'25.93"N Long: 92° 6'4.12"W Datum: WGS84

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 ____ No X (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 Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

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 required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained. Drainage appears to be towards the west.

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point DP-6

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50% of total cover _____ 20 % of total cover: _____

Herb Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: 1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	_____	1	_____
FACW species	_____	2	_____
FAC species	_____	3	_____
FACU species	_____	4	_____
UPL species	_____	5	_____
Column Totals:	_____		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

Photographs 21 & 22

SOIL

Sampling Point: DP-6

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/3	100					Silt Loam	
8-16	10YR 3/3	100					Silt Loam	

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

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-7

Investigator(s): Aaron Bass, Donnie Day Section, Township, Range: N/A

Landform (hillslope, terrace, etc.) Depression surrounded by spoil Local relief (concave, convex, none): none Slope (%): 0-1

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'29.87"N Long: 92° 6'6.23"W Datum: WGS84

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 Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	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.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- X 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)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- X 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): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
Hydrology indicators observed. This area is impounded by spoil material deposited during the dredging of Bayou Bourbeaux. There is no apparent connection to Waters of the US.

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point DP-7

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus nigra	70	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	70	= Total Cover	
50 % of total cover: 35	20 % of total cover:	14	

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Triadica sebifera	60	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	60	= Total Cover	
50% of total cover 30	20 % of total cover:	12	

Herb Stratum (Plot size: 20 ft radius)			
1. Alternanthera philoxeroides	95	Y	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	95	= Total Cover	
50 % of total cover: 47.5	20 % of total cover:	19	

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Smilax rotundifolia	10	Y	FAC
2.			
3.			
4.			
5.			
	10	= Total Cover	
50 % of total cover: 5	20 % of total cover:	2	

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	95	1	95
FACW species		2	
FAC species	140	3	420
FACU species		4	
UPL species		5	
Column Totals:	235		515 (B)

Prevalence Index = B/A = 2.19

Hydrophytic Vegetation Indicators:

X 1 – Rapid Test for Hydrophytic Vegetation

X 2 – Dominance Test is > 50%

X 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

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

Photographs 23 & 24

SOIL

Sampling Point: DP-7

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR 3/1	100					Silt loam	Slight mottles
7-16	10YR 3/1	85	10YR 4/6	15	RM	M	Silt Clay	Reddish mottles

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** **X** **No** _____

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-8

Investigator(s): Aaron Bass, Donnie Day Section, Township, Range: N/A

Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none): none Slope (%): 0-1

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'30.30"N Long: 92° 6'5.63"W Datum: WGS84

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 ____ No X (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 Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No x
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

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.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained. Drainage appears to be to the west

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

Sampling Point DP-8

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	= Total Cover		

50 % of total cover: _____ 20 % of total cover: _____

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	= Total Cover		

50% of total cover _____ 20 % of total cover: _____

Herb Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

50 % of total cover: _____ 20 % of total cover: _____

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
	= Total Cover		

50 % of total cover: _____ 20 % of total cover: 1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	_____	1	_____
FACW species	_____	2	_____
FAC species	_____	3	_____
FACU species	_____	4	_____
UPL species	_____	5	_____
Column Totals:	_____		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

Photographs 25 & 26

SOIL

Sampling Point: DP-8

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

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

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

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-9

Investigator(s): Aaron Bass, Donnie Day Section, Township, Range: N/A

Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none): none Slope (%): 1-3

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'41.09"N Long: 92° 6'8.74"W Datum: WGS84

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 ____ No X (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 Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____ No X	**Is the Sampled Area within a Wetland?**	Yes ____ No X
Hydric Soil Present?	Yes X No ____		
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.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- X 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): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
Hydrology indicators observed. Area appears to be a well-drained. Drainage appears to be towards the south.

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point DP-9

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50% of total cover _____ 20 % of total cover: _____

Herb Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: 1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	_____	1	_____
FACW species	_____	2	_____
FAC species	_____	3	_____
FACU species	_____	4	_____
UPL species	_____	5	_____
Column Totals:	_____		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

Photographs

SOIL

Sampling Point: DP-9

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 5/3	95	10YR 4/6	5	RM	M	Silt loam	
4-16	10YR 5/2	80	10YR 4/6	20	RM	M	Clay	Grey/ reddish mottles

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

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-10

Investigator(s): Aaron Bass, Donnie Day Section, Township, Range: N/A

Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none): none Slope (%): 0-1

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'40.54"N Long: 92° 6'0.22"W Datum: WGS84

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 ____ No X (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 Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

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 northeast corner of the site.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained.

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

Sampling Point DP-10

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	= Total Cover		

50 % of total cover: _____ 20 % of total cover: _____

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	= Total Cover		

50% of total cover _____ 20 % of total cover: _____

Herb Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

50 % of total cover: _____ 20 % of total cover: _____

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
	= Total Cover		

50 % of total cover: _____ 20 % of total cover: 1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	_____	1	_____
FACW species	_____	2	_____
FAC species	_____	3	_____
FACU species	_____	4	_____
UPL species	_____	5	_____
Column Totals:	_____		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

Photographs 29 & 30

SOIL

Sampling Point: DP-10

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 4/3	100					Silt loam	
9-16	10YR 4/4	100					Silt loam	

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

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

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-11

Investigator(s): Aaron Bass, Donnie Day Section, Township, Range: N/A

Landform (hillslope, terrace, etc.) terrace Local relief (concave, convex, none): none Slope (%): 1-3

Subregion (LRR or MLRA): LRR-O; MLRA 131A Lat: 30°25'28.26"N Long: 92° 5'58.62"W Datum: WGS84

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 ____ No X (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 Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

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.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15) **(LRR U)**
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

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): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
USGS 7.5-minute topographic map, aerial photographs

Remarks:
No hydrology indicators observed. Area appears to be a well-drained. Drainage appears to be towards the west.

VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point DP-11

Tree Stratum (Plot size: 20 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Sapling/Shrub Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
		= Total Cover	

50% of total cover _____ 20 % of total cover: _____

Herb Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: _____

Woody Vine Stratum (Plot size: 20 ft radius)			
1. Not applicable			
2.			
3.			
4.			
5.			
		= Total Cover	

50 % of total cover: _____ 20 % of total cover: 1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	_____	1	_____
FACW species	_____	2	_____
FAC species	_____	3	_____
FACU species	_____	4	_____
UPL species	_____	5	_____
Column Totals:	_____		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ 1 – Rapid Test for Hydrophytic Vegetation

___ 2 – Dominance Test is > 50%

___ 3 – Prevalence Test is ≤ 3.0[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Vegetation Strata:

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

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

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

Photographs 31 & 32

SOIL

Sampling Point: DP-11

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 4/3	100					Silt loam	
4-16	10YR 5/3	70	10YR 4/6	30	RM	M	Clay	

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

Hydric Soil Indicators:

___Histosol (A1)
___Histic Epipedon (A2)
___Black Histic (A3)
___Hydrogen Sulfide (A4)
___Stratified Layers (A5)
___Organic Bodies (A6) **(LRR P, T, U)**
___5 cm Mucky Mineral (A7) **(LRR P, T, U)**
___Muck Presence (A8) **(LRR U)**
___1 cm Muck (A9) **(LRR P, T)**
___Depleted Below Dark Surface (A11)
___Thick Dark Surface (A12)
___Coast Prairie Redox (A16) **(MLRA 150A)**
___Sandy Mucky Mineral (S1) **(LRR O, S)**
___Sandy Gleyed Matrix (S4)
___Sandy Redox (S5)
___Stripped Matrix (S6)
___Dark Surface (S7) **(LRR P, S, T, U)**
___Polyvalue Below Surface (S8) **(LRR S, T, U)**
___Thin Dark Suface (S9) **(LRR S, T, U)**
___Loamy Gleyed Matrix (F1) **(LRR O)**
___Loamy Gleyed Matrix (F2)
___Depleted Matrix (F3)
___Redox Dark Surface (F6)
___Depleted Dark Surface (F7)
___Redox Depressions (F8)
___Marl (F10) **(LRR U)**
___Depleted Ochric (F11) **(MLRA 151)**
___Iron Manganese Masses (F12) **(LRR O, P, T)**
___Umbric Surface (F13) **(LRR P, T, U)**
___Delta Ochric (F17) **(MLRA 151)**
___Reduced Vertic (F18) **(MLRA 150A, 150B)**
___Piedmont Floodplain Soils (F19) **(MLRA 149A)**
___Anomalous Bright Loamy Soils (F20) **(MLRA 149A, 153C, 153D)**

Indicators for Problematic Hydric Soils[3]:

___1 cm Muck (A9) **(LRR O)**
___2 cm Muck (A10) **(LRR S)**
___Reduced Vertic (F18) **(outside MLRA 150A,B)**
___Piedmont Floodplain Soils (F19) **(LRR P, S, T)**
___Anomalous Bright Loamy Soils (F20) **(MLRA 153B)**
___Red Parent Material (TF2)
___Very Shallow Dark Surface (TF12)
___Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** **X**

Remarks:

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)

8. Stream 4 (S4)

9. 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

20. Southerly view along the eastern edge of the site

21. DP6 landscape view

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