

Exhibit EE.

Henderson I-10 Site

Wetlands Delineation Report



Henderson I-10 Site Wetlands Delineation

Wetland Delineation Report

Henderson I-10 Site
St. Martin Parish, Louisiana

for
One Acadiana

December 9, 2025

11923 Sun Belt Court
Baton Rouge, Louisiana 70809
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GEOENGINEERS 

Wetland Delineation Report

Henderson I-10 Site
St. Martin Parish, Louisiana

File No. 025992-017-00
December 9, 2025

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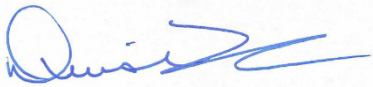
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EXECUTIVE SUMMARY

GeoEngineers conducted a wetland delineation on the 146-acre Henderson I-10 Site in St. Martin Parish, Louisiana. The Site currently consists of row crop agriculture, fallow fields and bottomland hardwoods with natural and man-made drainage features. Our professional wetland scientist mapped all drainage features in the property area. A total of thirteen sample plots were established within the project Site boundary. GeoEngineers noted the presence of hydrophytic vegetation, hydric soils, and wetland hydrology at six sample plots (SP-2, SP-3, SP-4, SP-5, SP-11 and SP-13) within the project area. As such, GeoEngineers concludes that there are 30.49 acres of potential jurisdictional Wetlands and 2.03 acres of potential WOTUS. Additionally, 0.4 acres of the total 146-acre project area consists of Manmade Non-wetland Waters.

This delineation was prepared using current applicable guidance and methodology, and it represents the best professional judgement of GeoEngineers. As a professional opinion only, it does not represent final agency approval of the delineated features, and we recommend submitting this information to the USACE for review and verification should the proposed project result in unavoidable impacts on WOTUS.

1.0 Introduction

This document describes the results of a wetland delineation investigation of the Henderson I-10 Site (Site). GeoEngineers, Inc. (GeoEngineers) initially mobilized to the Site to conduct the requested wetland delineation field survey within the proposed project area, consisting of approximately 146 acres, on November 11, 2025. This report reflects the information gathered during the investigation.

2.0 Project Location/General Setting

The project site is located in St. Martin Parish, Louisiana, as referenced in Figures 1 through 6. GeoEngineers staff assessed the proposed project Site for potential jurisdictional wetlands and Waters of the United States (WOTUS). The proposed project area is approximately 146 acres total consisting of row crop agriculture, fallow fields and bottomland hardwoods. Topography was relatively flat, with several manmade and natural drainage features.

3.0 Scope of Services

GeoEngineers was retained by One Acadiana to conduct a wetland delineation of the proposed project oil and gas exploration in St. Martin Parish, Louisiana. The scope of services associated with this wetland delineation included:

1. **Literature Review/Field Preparation:** GeoEngineers reviewed appropriate reference materials pertinent to the Site, including: Vicinity Map (Figure 1); United States Geological Survey (USGS) Topographic Map (Figure 2); United States Department of Agriculture (USDA) National Resources Conservation Service (NRCS) Soils Map Survey for St. Martin Parish, Louisiana (Figure 3); United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) Map (Figure 4); USGS LiDAR Map (Figure 5); recent aerial photographs; and other readily available background information.
2. **Field Delineation/Assessment:** GeoEngineers initially mobilized to the Site to conduct wetland delineation activities within the project area consisting of approximately 146 acres on November 11, 2025. Wetland boundaries were determined after consideration of three wetland parameters: (1) vegetation; (2) soils; and (3) hydrology in accordance with the United States Army Corps of Engineers (USACE) Wetland Delineation Manual (1987) and the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coastal Plains Region*, Version 2.0, dated November 2010. Soil pits were hand excavated throughout the project site, as needed and appropriate, to record soil conditions relative to hydric indicators. GeoEngineers assessed the vegetative cover near each soil pit and estimated the relative abundance of hydrophytic species.

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

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

4.0 Methods

4.1 LITERATURE REVIEW

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

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

4.2 WETLAND DELINEATION

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

4.2.1 Field Methods

Prior to visiting the Site, a health and safety briefing was completed, field gear and travel plans were prepared, and a communications protocol for the field crew was established. A GeoEngineers professional wetlands scientist conducted the initial field assessment on November 11, 2025.

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

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

Wetland hydrology indicators were noted at sample plots surrounding soil pits (approximate 50-foot radius). Vegetation, soil, and hydrologic information collected during the field study are presented on the standard 2010 *Regional Supplemental to the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coastal Plains Region*, Version 2.0 wetland delineation data forms, which are included in Appendix B.

4.2.2 Vegetation

The USACE 2010 *Regional Supplement: Atlantic and Gulf Coastal Plains Region*, Version 2.0, defines hydrophytic vegetation as, “the community that is within areas where inundation or soil saturation is either permanent or of sufficient frequency and duration to exert a controlling influence on the plant species present” (USACE 2010). Hydrophytic plant species can grow, compete, and establish in areas where anaerobic conditions exist due to the presence of surface water and/or groundwater. In 1988, the USACE and USFWS (Reed 1988) developed plant indicator categories that describe the probability of vegetation species to occur in wetlands. Each plant species observed within a given on-site sample plot was categorized according to the USACE 2022 National Wetland Plant List (USACE, 2024). Table 1 provides summarized definitions of the indicator status categories.

TABLE 1. PLANT INDICATOR STATUS CATEGORIES

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

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

On-site wetland vegetation communities, identified by field scientists, were classified according to the Cowardin Classification System (Cowardin, et al. 1979). Vegetation nomenclature described in this report follows the format outlined in the *Manual of the Vascular Flora of the Carolinas* (Radford, et al. 1968).

4.2.3 Hydrology

Hydrologic patterns that may create wetlands can be influenced by precipitation, stratigraphy, topography, soil permeability, plant cover, and human disturbance. Wetland hydrology encompasses all hydrologic characteristics of areas that are periodically inundated or have soils saturated to the surface at some time

during the growing season. Primary and secondary hydrologic indicators used by field biologists to assist in the identification of potential wetlands included the following (USACE 2010):

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

Secondary indicators include (USACE 2008):

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

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

4.2.4 Soils

Hydric soils are formed under conditions of saturation, flooding, or ponding for a period long enough during the growing season that anaerobic conditions develop in the upper soil strata (0 to 20 inches commonly)

(USACE 2010). These anaerobic conditions can result in certain soil characteristics that can be identified in the field while investigating (to confirm or deny) the hydric soil wetland parameter. Prolonged anaerobic soil conditions eventually lead to a chemically reduced state where soil components (iron, manganese, sulfur, and carbon compounds) develop soil colors and other physical characteristics indicative of hydric status. These chemically reduced soil components persist when the soil is either wet or dry. Specific hydric soil characteristics used by GeoEngineers' wetland scientist to identify hydric soils include:

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

GeoEngineers' study methods for hydric soil analysis included digging soil pits wherever drainage patterns, ponded areas, or indicators of water presence were observed. Soil pits were hand dug to approximately 16 to 18 inches bgs (as described previously in Section 4.2.1, Field Methods) along a transect perpendicular to the predicted wetland boundary in a gradient from dry to wet. Soils obtained from each soil pit were observed for color profile, odor, and redoximorphic condition. Hydric soil conditions must be met within 20 inches of the ground surface to consider the soil types hydric.

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

4.3 WETLAND CHARACTERIZATION

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

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

- Depressional;
- Riverine;
- Lake-fringe;
- Slope;
- Flats; and
- Freshwater tidal.

4.3.1 Ordinary High-Water Mark Identification

The USACE (2025) New Orleans District defines the Ordinary High Water Mark (OHWM) as the line on the shores established by the fluctuations of water and indicated by physical characteristics such as:

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

The USACE (2025) further defines the OHWM as follows:

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

5.0 Results

5.1 LITERATURE REVIEW

5.1.1 Soils

The St. Martin Parish, Louisiana NRCS Web Soils Soil Survey (USDA 2025) identified the following soil types potentially within the project area (NRCS Soils Map, Figure 3):

- Dd: Dundee Silt Loam
- Gp: Gallion-Perry Complex
- Lo: Loreauville Silt Loam
- Te: Tensas Silty Clay Loam

5.1.2 NWI Map

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

PFO1A: Freshwater Forested/Shrub Wetland.

5.2 FIELD INVESTIGATION

5.2.1 Wetland Delineation/Assessment

The Site primarily consists of a 146-acre area consisting of row crop agriculture, fallow fields and bottomland hardwoods. Topography was relatively flat with several agricultural drainage ditches. Thirteen sample plots were established for data collection. The locations of these plots are illustrated in Figure 6.

5.2.2 Soil and Hydrology

GeoEngineers established three soil pits (SP-1 through SP-13) within the project area. Table 2 below provides a summary of soil and hydrological conditions encountered during the delineation/assessment.

TABLE 2. SOIL/HYDROLOGY DATA SUMMARY

SOIL PIT ID	APPROXIMATE DEPTH (INCHES BGS)	HUE, VALUE, CHROMA	REDOX FEATURES	HUE, VALUE, CHROMA	SOIL DESCRIPTION	HYDRIC SOILS PRESENT? (YES/NO)
SP-1	0-16	10YR 3/1	N/A	N/A	Silty Clay	No
SP-2	0-8 8-16	10YR 3/1 10YR 4/2	No Yes	10YR 5/4	Silty Clay	Yes
SP-3	0-7 7-16	10YR 3/2 10YR 4/2	No Yes	10YR 4/6	Silty Clay	Yes
SP-4	0-16	10YR 4/2	Yes	10YR 5/8	Silty Clay	Yes
SP-5	0-16	10YR 4/1	Yes	10YR 5/6	Clay	Yes
SP-6	0-16	10YR 2/1	N/A	N/A	Silty Clay	No
SP-7	0-16	10YR 2/1	N/A	N/A	Silty Clay	No
SP-8	0-16	10YR 2/1	N/A	N/A	Silty Clay	No
SP-9	0-16	10YR 3/1	N/A	N/A	Silty Clay	No

SOIL PIT ID	APPROXIMATE DEPTH (INCHES BGS)	HUE, VALUE, CHROMA	REDOX FEATURES	HUE, VALUE, CHROMA	SOIL DESCRIPTION	HYDRIC SOILS PRESENT? (YES/NO)
SP-10	0-16	10YR 2/1	N/A	N/A	Silty Clay	No
SP-11	0-16	10YR 4/1	Yes	10YR 5/6	Clay	Yes
SP-12	0-3 3-16	10YR 3/2 10YR 4/2	No Yes	10YR 5/8	Silty Clay	Yes
SP-13	0-16	10YR 4/2	Yes	10YR 5/8	Silty Clay	Yes

At least the top 16 inches of the soil profile at all three sample plots consists of silt and silty clay soils. A photographic record of the soil pit conditions is provided in Appendix A. The wetland determination data forms are provided in Appendix B.

5.2.3 General Vegetation

Vegetation was characterized based on general dominant species observed within approximately 50-foot-diameter sample plot surrounding each soil pit. Dominant vegetation within the project area consisted of Chinese Tallow (*Triadica sebifera*), American Elm (*Ulmus americana*), Goldenrod (*Solidago sp.*), Bushy Bluestem (*Andropogon glomeratus*), Sugarcane (*Saccharum officinarum*), and Water Oak (*Quercus nigra*). A more detailed species list can be viewed in Appendix B on the Wetland Determination Data Forms.

6.0 Summary and Conclusions

6.1 WETLANDS

GeoEngineers conducted a wetland delineation on the Henderson I-10 Site in St. Martin Parish, Louisiana. The Site currently consists of row crop agriculture, fallow fields and bottomland hardwoods with natural and man-made drainage features. Our professional wetland scientist mapped all drainage features in the property area. A total of thirteen sample plots were established within the project Site boundary. GeoEngineers noted the presence of hydrophytic vegetation, hydric soils, and wetland hydrology at six sample plots (SP-2, SP-3, SP-4, SP-5, SP-11 and SP-13) within the project area. As such, GeoEngineers concludes that there are 30.49 acres of potential jurisdictional Wetlands and 2.03 acres of potential WOTUS. Additionally, 0.4 acres of the total 146-acre project area consists of Manmade Non-wetland Waters. This delineation was prepared using current applicable guidance and methodology, and it represents the best professional judgement of GeoEngineers. As a professional opinion only, it does not represent final agency approval of the delineated features, and we recommend submitting this information to the USACE for review and verification should the proposed project result in unavoidable impacts on WOTUS.

7.0 Limitations

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

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

Wetland boundaries, classifications and discussions are based on our understanding of the local, state, and federal regulations, and site conditions at the time of our work. The final wetland boundary determinations and wetland classifications are to be made or verified by the appropriate jurisdictional agency.

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7.1 INFORMATION PROVIDED BY OTHERS

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

8.0 References

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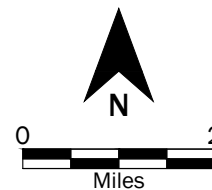
Figures



Source: Topographic image was taken from USGS, Quad: Baton Rouge, dated 1984

Coordinate System: Louisiana State Plane, Southern Zone, NAD83, US Foot

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Vicinity Map

Henderson I-10 Site Wetland Delineation
Henderson, Louisiana, St. Martin Parish



Figure 1

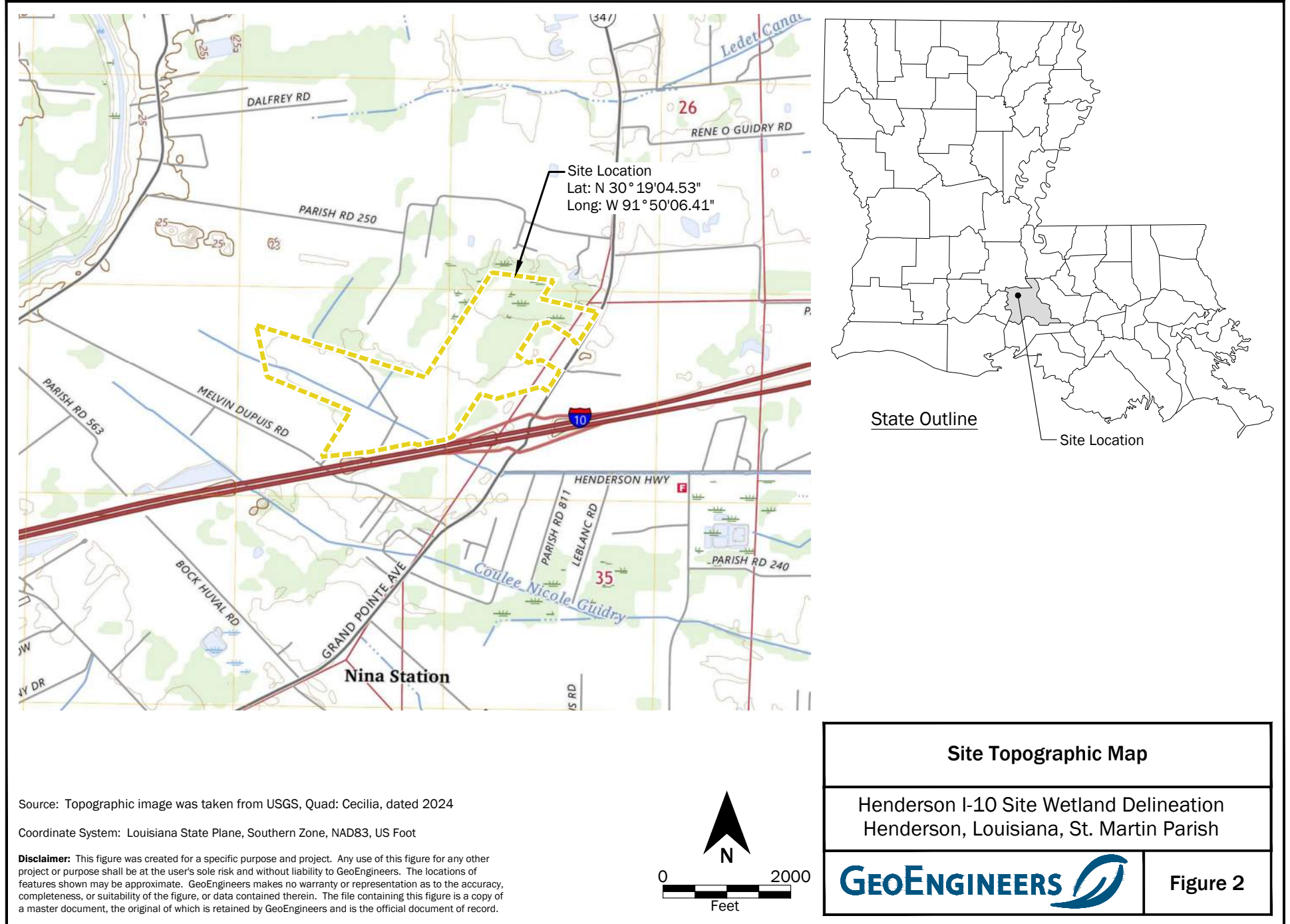
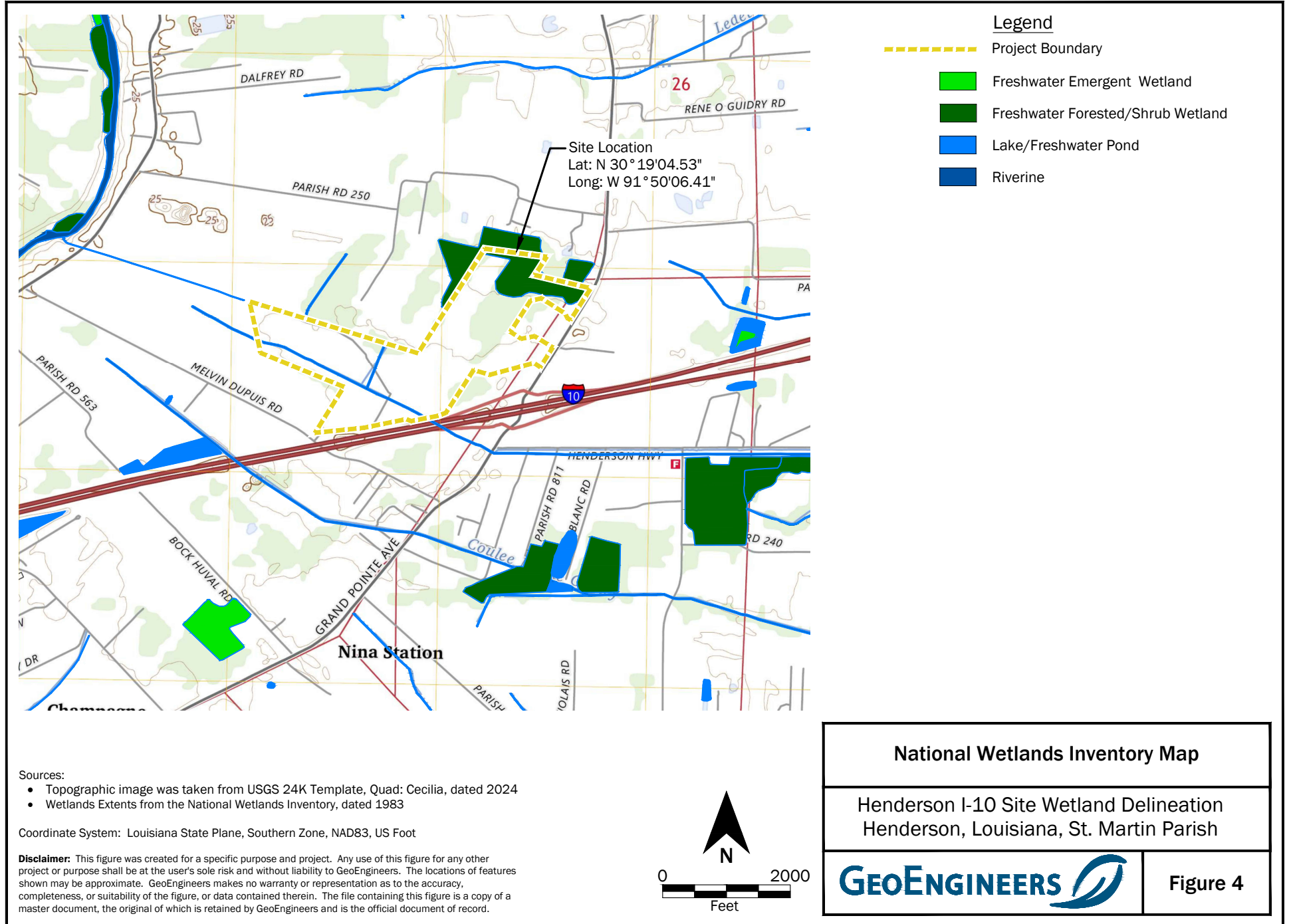
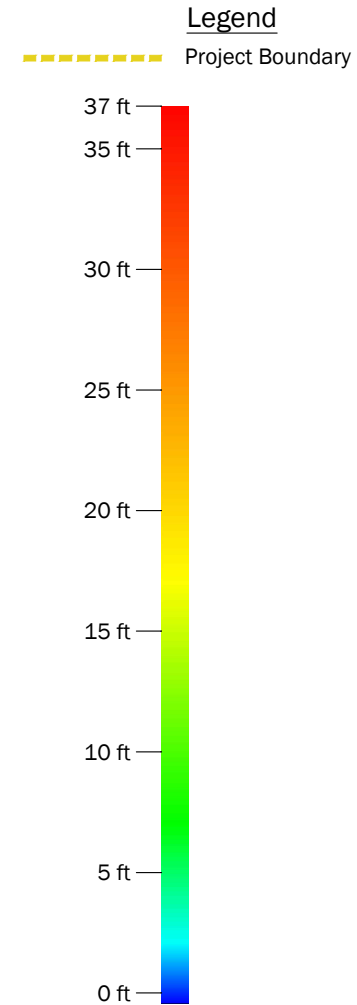
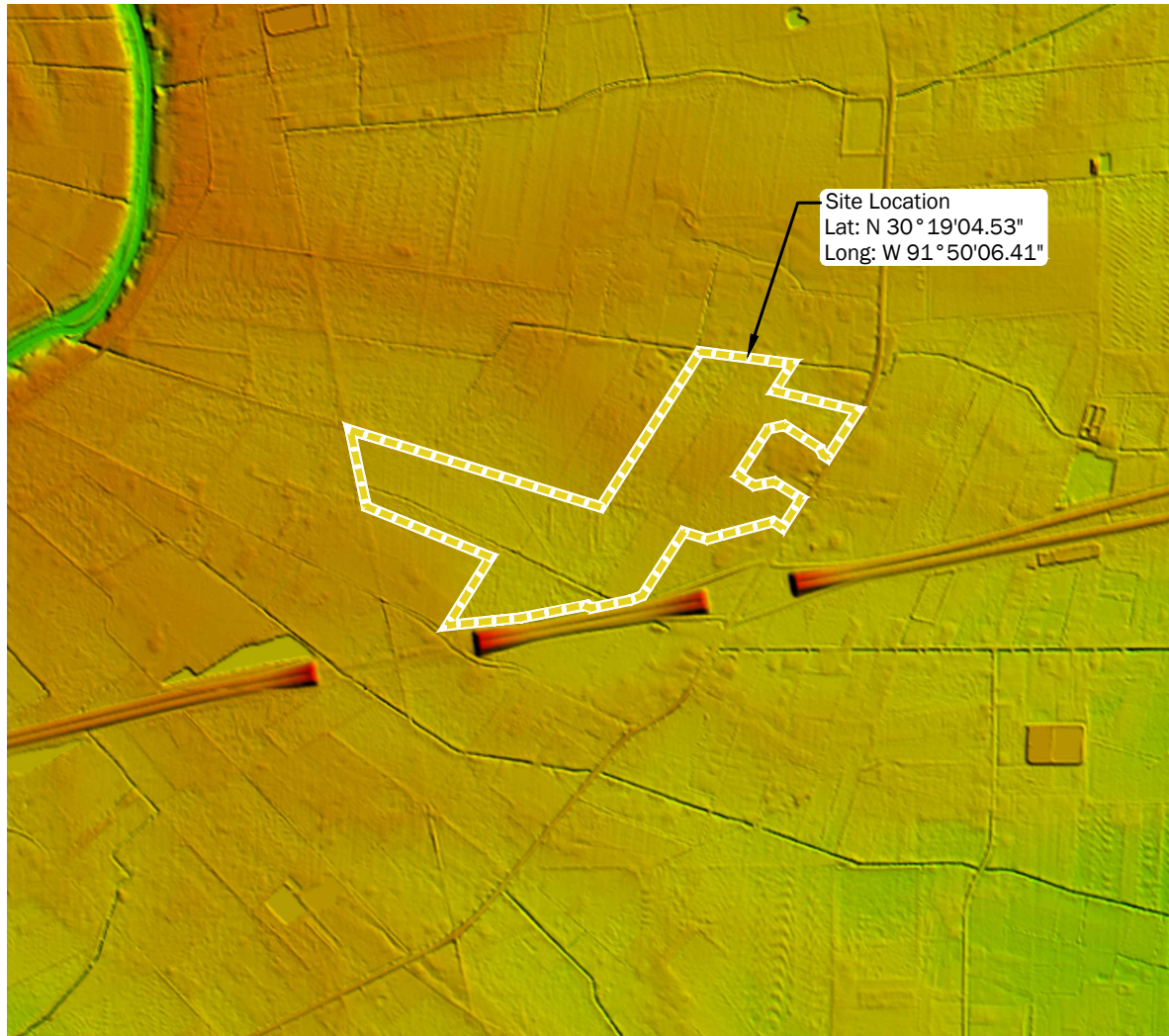


Figure 3

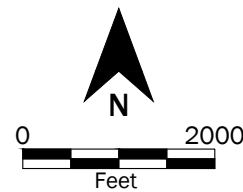




Source: LiDAR data was taken from USGS Quad: Cecilia NW & SW, dated 2004

Coordinate System: Louisiana State Plane, Southern Zone, NAD83, US Foot

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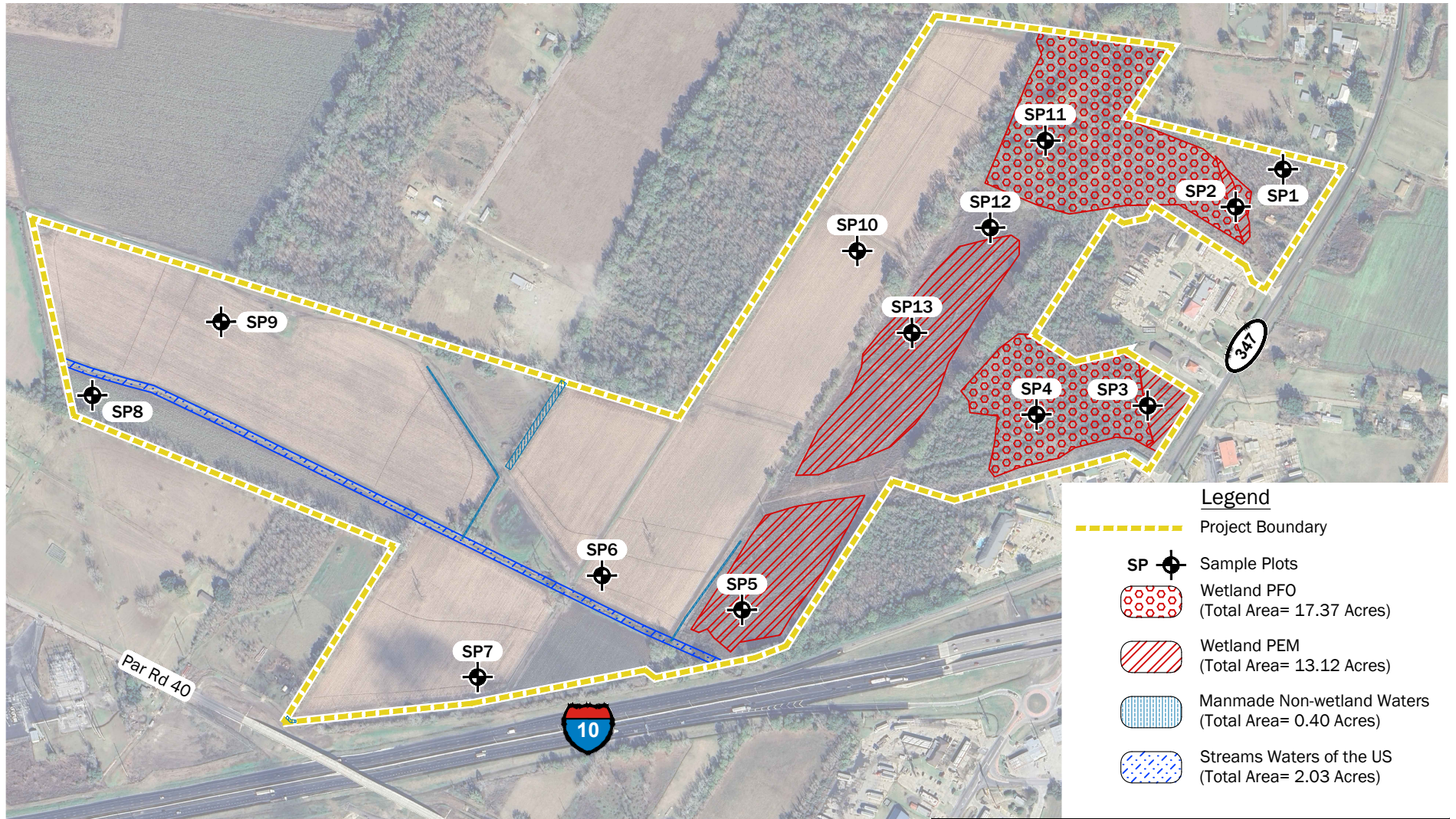


LiDAR Map

Henderson I-10 Site Wetland Delineation
Henderson, Louisiana, St. Martin Parish



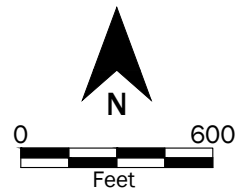
Figure 5



Source: Aerial from Google Earth Pro, dated 1/2/2024

Coordinate System: Louisiana State Plane, Southern Zone, NAD83, US Foot

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Wetland Delineation Map

Henderson I-10 Site Wetland Delineation
Henderson, Louisiana, St. Martin Parish

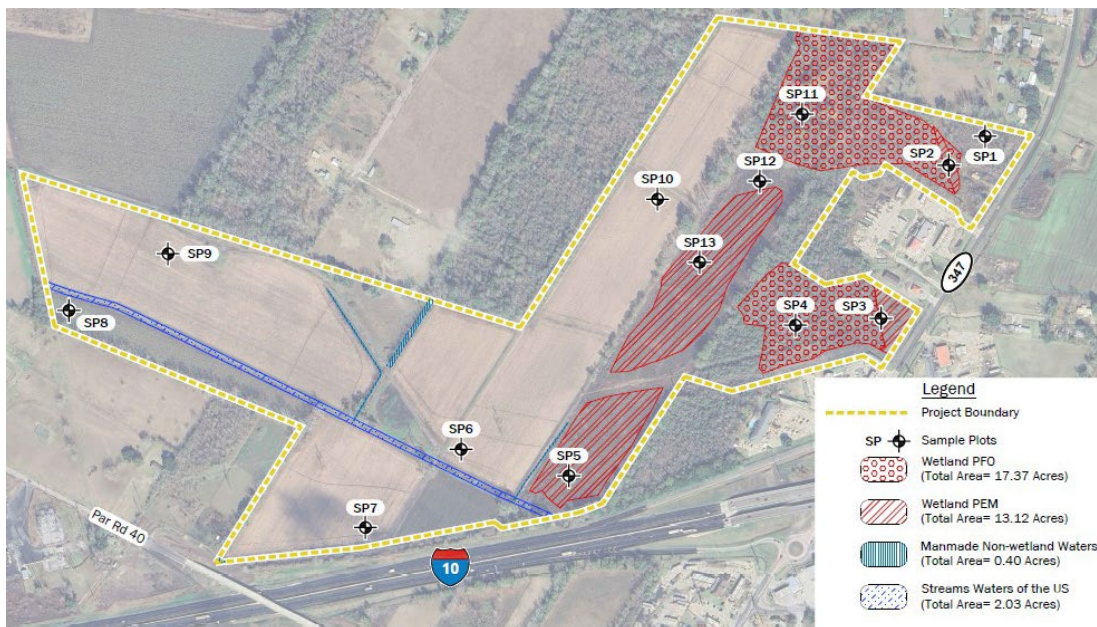


Figure 6

Appendices

Appendix A

Site Photographs



Property Map

November 11, 2025, Site Visit Photographs

Henderson I-10 Site Wetland Delineation
St. Martin Parish, Louisiana
025992-017-00



Figure A-1

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SAMPLE PLOT 1 (SP-1) SOIL PROFILE



SP-1 LOOKING NORTH

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St. Martin Parish, Louisiana
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Figure A-2



SP-1 LOOKING EAST



SP-1 LOOKING SOUTH

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Henderson I-10 Site Wetland Delineation
St. Martin Parish, Louisiana
025992-017-00



Figure A-3



SP-1 LOOKING WEST



SAMPLE PLOT 2 (SP-2) SOIL PROFILE

November 11, 2025, Site Visit Photographs

Henderson I-10 Site Wetland Delineation
St. Martin Parish, Louisiana
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Figure A-4



SP-2 LOOKING NORTH



SP-2 LOOKING EAST

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Figure A-5



SP-2 LOOKING SOUTH



SP-2 LOOKING WEST

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Figure A-6



SAMPLE PLOT 3 (SP-3) SOIL PROFILE



SP-3 LOOKING NORTH

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Figure A-7



SP-3 LOOKING EAST



SP-3 LOOKING SOUTH

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Henderson I-10 Site Wetland Delineation
St. Martin Parish, Louisiana
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Figure A-8



SP-3 LOOKING WEST



SAMPLE PLOT 4 (SP-4) SOIL PROFILE

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Figure A-9



SP-4 LOOKING NORTH



SP-4 LOOKING EAST

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Figure A-10



SP-4 LOOKING SOUTH



SP-4 LOOKING WEST

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St. Martin Parish, Louisiana
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Figure A-11



SAMPLE PLOT 5 (SP-5) SOIL PROFILE



SP-5 LOOKING NORTH

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Figure A-12



SP-5 LOOKING EAST



SP-5 LOOKING SOUTH

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Figure A-13



SP-5 LOOKING WEST



SAMPLE PLOT 6 (SP-6) SOIL PROFILE

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Figure A-14



SP-6 LOOKING NORTH



SP-6 LOOKING EAST

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Figure A-15



SP-6 LOOKING SOUTH



SP-6 LOOKING WEST

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Figure A-16



SAMPLE PLOT 7 (SP-7) SOIL PROFILE



SP-7 LOOKING NORTH

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Figure A-17



SP-7 LOOKING EAST



SP-7 LOOKING SOUTH

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St. Martin Parish, Louisiana
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Figure A-18



SP-7 LOOKING WEST



SAMPLE PLOT 8 (SP-8) SOIL PROFILE

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Figure A-19



SP-8 LOOKING NORTH



SP-8 LOOKING EAST

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Figure A-20



SP-8 LOOKING SOUTH



SP-8 LOOKING WEST

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St. Martin Parish, Louisiana
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Figure A-21



SAMPLE PLOT 9 (SP-9) SOIL PROFILE



SP-9 LOOKING NORTH

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Figure A-22



SP-9 LOOKING EAST



SP-9 LOOKING SOUTH

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Figure A-23



SP-9 LOOKING WEST



SAMPLE PLOT 10 (SP-10) SOIL PROFILE

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Figure A-24



SP-10 LOOKING NORTH



SP-10 LOOKING EAST

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Figure A-25



SP-10 LOOKING SOUTH



SP-10 LOOKING WEST

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St. Martin Parish, Louisiana
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Figure A-26



SAMPLE PLOT 11 (SP-11) SOIL PROFILE



SP-11 LOOKING NORTH

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Figure A-27



SP-11 LOOKING EAST



SP-11 LOOKING SOUTH

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Figure A-28



SP-11 LOOKING WEST



SAMPLE PLOT 12 (SP-12) SOIL PROFILE

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Figure A-29



SP-12 LOOKING NORTH



SP-12 LOOKING EAST

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Figure A-30



SP-12 LOOKING SOUTH



SP-12 LOOKING WEST

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Figure A-31



SAMPLE PLOT 13 (SP-13) SOIL PROFILE



SP-13 LOOKING NORTH

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Figure A-32



SP-13 LOOKING EAST



SP-13 LOOKING SOUTH

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Figure A-33



SP-13 LOOKING WEST

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Figure A-34



STREAM LOOKING EAST



STREAM LOOKING WEST

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Figure A-35



AG DITCH LOOKING SOUTH



AG DITCH LOOKING WEST

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Figure A-36



AG DITCH LOOKING SOUTH



AG DTICH LOOKING WEST

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St. Martin Parish, Louisiana
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Figure A-37

Appendix B
Wetland Determination Data Forms

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-1

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): well drained forested area Local relief (concave, convex, none): convex Slope (%): 3

Subregion (LRR or MLRA): LRR O Lat: 30°19'14.39"N Long: 91°49'42.28"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Well drained forested area due to surrounding development.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ☐ 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)		<u>Secondary Indicators (minimum of two required)</u> ☐ 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 <u> </u> No <u>x</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		

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

 Sampling Point: SP-1

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Triadica sebifera</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Ulmus americana</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
75 = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>115</u></td> <td>x 3 = <u>345</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>125</u> (A)</td> <td><u>370</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.96</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>115</u>	x 3 = <u>345</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>125</u> (A)	<u>370</u> (B)	Prevalence Index = B/A = <u>2.96</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>5</u>	x 1 = <u>5</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>115</u>	x 3 = <u>345</u>																			
FACU species <u>5</u>	x 4 = <u>20</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>125</u> (A)	<u>370</u> (B)																			
Prevalence Index = B/A = <u>2.96</u>																				
50% of total cover: <u>38</u> 20% of total cover: <u>15</u>																				
Sapling Stratum (Plot size: <u>50</u>)																				
1. <u>Acer rubrum</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>_____</u> Problematic Hydrophytic Vegetation ¹ (Explain)																
2. <u>Triadica sebifera</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Ulmus americana</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Celtis occidentalis</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
40 = Total Cover																				
50% of total cover: <u>20</u> 20% of total cover: <u>8</u>																				
Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____	Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
2. _____	_____	_____	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Herb Stratum (Plot size: <u>50</u>)																				
1. <u>Toxicodendron radicans</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. <u>Quercus nigra</u>	<u>5</u>	<u>Yes</u>	<u>OBL</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
10 = Total Cover																				
50% of total cover: <u>5</u> 20% of total cover: <u>2</u>																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/1	100						Silty Clay
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)								Indicators for Problematic Hydric Soils³:
☐ Histosol (A1)			☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)	
☐ Histic Epipedon (A2)			☐ Barrier Islands 1 cm Muck (S12)				☐ 2 cm Muck (A10) (LRR S)	
☐ Black Histic (A3)			(MLRA 153B, 153D)				☐ Coast Prairie Redox (A16) (MLRA 149A)	
☐ Hydrogen Sulfide (A4)			☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18)	
☐ Stratified Layers (A5)			☐ Loamy Gleyed Matrix (F2)				(outside MLRA 150A, 150B)	
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Depleted Matrix (F3)				☐ Piedmont Floodplain Soils (F19) (LRR P, T)	
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Redox Dark Surface (F6)				☐ Anomalous Bright Floodplain Soils (F20)	
☐ Muck Presence (A8) (LRR U)			☐ Depleted Dark Surface (F7)				(MLRA 153B)	
☐ 1 cm Muck (A9) (LRR P, T)			☐ Redox Depressions (F8)				☐ Red Parent Material (F21)	
☐ Depleted Below Dark Surface (A11)			☐ Marl (F10) (LRR U)				☐ Very Shallow Dark Surface (F22)	
☐ Thick Dark Surface (A12)			☐ Depleted Ochric (F11) (MLRA 151)				(outside MLRA 138, 152A in FL, 154)	
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)				☐ Other (Explain in Remarks)	
☐ Iron Monosulfide (A18)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Floodplain Soils (F20)					
☐ Dark Surface (S7) (LRR P, S, T, U)			(MLRA 149A, 153C, 153D)					
☐ Polyvalue Below Surface (S8)			☐ Very Shallow Dark Surface (F22)					
(LRR S, T, U)			(MLRA 138, 152A in FL, 154)					
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes _____ No <u>X</u>	
Remarks:								

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

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-2

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): Poorly drained ROW Local relief (concave, convex, none): concave Slope (%): <2

Subregion (LRR or MLRA): LRR O Lat: 30°19'12.87"N Long: 91°49'44.46"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Poorly drained ROW area due to surrounding development.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ☐ 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)		<u>Secondary Indicators (minimum of two required)</u> ☐ 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 <u> </u> No <u>x</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		

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

 Sampling Point: SP-2

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)																																
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>15</u></td> <td>x 2 =</td> <td><u>30</u></td> </tr> <tr> <td>FAC species</td> <td><u>130</u></td> <td>x 3 =</td> <td><u>390</u></td> </tr> <tr> <td>FACU species</td> <td><u>30</u></td> <td>x 4 =</td> <td><u>120</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>175</u> (A)</td> <td></td> <td><u>540</u> (B)</td> </tr> <tr> <td colspan="4" style="text-align: right;">Prevalence Index = B/A = <u>3.09</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>15</u>	x 2 =	<u>30</u>	FAC species	<u>130</u>	x 3 =	<u>390</u>	FACU species	<u>30</u>	x 4 =	<u>120</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>175</u> (A)		<u>540</u> (B)	Prevalence Index = B/A = <u>3.09</u>			
Total % Cover of:		Multiply by:																																		
OBL species	<u>0</u>	x 1 =	<u>0</u>																																	
FACW species	<u>15</u>	x 2 =	<u>30</u>																																	
FAC species	<u>130</u>	x 3 =	<u>390</u>																																	
FACU species	<u>30</u>	x 4 =	<u>120</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals:	<u>175</u> (A)		<u>540</u> (B)																																	
Prevalence Index = B/A = <u>3.09</u>																																				
50% of total cover: _____		20% of total cover: _____																																		
Sapling Stratum (Plot size: _____)																																				
1. _____	_____	_____	_____																																	
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
		=Total Cover																																		
50% of total cover: _____		20% of total cover: _____																																		
Shrub Stratum (Plot size: <u>50</u>)																																				
1. <u>Fraxinus pennsylvanica</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																																
2. <u>Carya aquatica</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																																	
3. <u>Liquidambar styraciflua</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
		15 =Total Cover																																		
50% of total cover: <u>8</u>		20% of total cover: <u>3</u>																																		
Herb Stratum (Plot size: <u>50</u>)																																				
1. <u>Ambrosia trifida</u>	<u>50</u>	<u>Yes</u>	<u>FAC</u>																																	
2. <u>Solidago altissima</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>																																	
3. <u>Andropogon glomeratus</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																																	
4. <u>Verbena bonariensis</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____																																	
10. _____	_____	_____	_____																																	
11. _____	_____	_____	_____																																	
		100 =Total Cover																																		
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>																																		
Woody Vine Stratum (Plot size: <u>50</u>)																																				
1. <u>Nekemias arborea</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>																																	
2. <u>Vitis rotundifolia</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																																	
3. <u>Lygodium japonicum</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
		60 =Total Cover																																		
50% of total cover: <u>30</u>		20% of total cover: <u>12</u>																																		
Remarks: (If observed, list morphological adaptations below.)																																				

Hydrophytic Vegetation Present?
 Yes X No _____

SOIL

Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/1	100						Silty Clay
8-16	10YR 4/2	95	10YR 5/4	5	D	M		Silty Clay
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)								Indicators for Problematic Hydric Soils³:
☐ 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) ☐ Iron Monosulfide (A18) ☐ Sandy Mucky Mineral (S1) (LRR O, S) ☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR P, S, T, U) ☐ Polyvalue Below Surface (S8) (LRR S, T, U)			☐ Thin Dark Surface (S9) (LRR S, T, U) ☐ Barrier Islands 1 cm Muck (S12) (MLRA 153B, 153D) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Loamy Gleyed Matrix (F2) ☒ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8) ☐ Marl (F10) (LRR U) ☐ Depleted Ochric (F11) (MLRA 151) ☐ Iron-Manganese Masses (F12) (LRR O, P, T) ☐ Umbric Surface (F13) (LRR P, T, U) ☐ Delta Ochric (F17) (MLRA 151) ☐ Reduced Vertic (F18) (MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (MLRA 149A) ☐ Anomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D) ☐ Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154)			☐ 1 cm Muck (A9) (LRR O) ☐ 2 cm Muck (A10) (LRR S) ☐ Coast Prairie Redox (A16) (MLRA 149A) ☐ Reduced Vertic (F18) (outside MLRA 150A, 150B) ☐ Piedmont Floodplain Soils (F19) (LRR P, T) ☐ Anomalous Bright Floodplain Soils (F20) (MLRA 153B) ☐ Red Parent Material (F21) ☐ Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) ☐ Other (Explain in Remarks)		
Restrictive Layer (if observed): Type: _____ Depth (inches): _____								Hydric Soil Present? Yes <u> X </u> No _____
Remarks:								

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

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-3

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): Poorly drained ROW Local relief (concave, convex, none): concave Slope (%): <2

Subregion (LRR or MLRA): LRR O Lat: 30°19'4.83"N Long: 91°49'48.52"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Poorly drained ROW area due to surrounding development.	

HYDROLOGY

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

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

 Sampling Point: SP-3

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>45</u></td> <td>x 2 = <u>90</u></td> </tr> <tr> <td>FAC species <u>90</u></td> <td>x 3 = <u>270</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>140</u> (A)</td> <td><u>365</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.61</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>45</u>	x 2 = <u>90</u>	FAC species <u>90</u>	x 3 = <u>270</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>140</u> (A)	<u>365</u> (B)	Prevalence Index = B/A = <u>2.61</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>5</u>	x 1 = <u>5</u>																			
FACW species <u>45</u>	x 2 = <u>90</u>																			
FAC species <u>90</u>	x 3 = <u>270</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>140</u> (A)	<u>365</u> (B)																			
Prevalence Index = B/A = <u>2.61</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% ☒ <u>3</u> - Prevalence Index is ≤3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)																				
1. <u>Salix nigra</u>	<u>5</u>	<u>Yes</u>	<u>OBL</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Triadica sebifera</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Ulmus americana</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: <u>8</u>		20% of total cover: <u>3</u>																		
Herb Stratum (Plot size: <u>50</u>)																				
1. <u>Solidago canadensis</u>	<u>60</u>	<u>Yes</u>	<u>FAC</u>	Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
2. <u>Andropogon glomeratus</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
3. <u>Saccharum giganteum</u>	<u>15</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Helenium autumnale</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
5. <u>Cyperus eragrostis</u>	<u>15</u>	<u>No</u>	<u>FACW</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: <u>53</u>		20% of total cover: <u>21</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. <u>Ampelopsis arborea</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: <u>10</u>		20% of total cover: <u>4</u>																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-3**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 3/2	100						Silty Clay
7-16	10YR 4/2	95	10YR 4/6	5	D	M		Silty Clay

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)	☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Histic Epipedon (A2)	☐ Barrier Islands 1 cm Muck (S12)
☐ Black Histic (A3)	(MLRA 153B, 153D)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (LRR O)
☐ Stratified Layers (A5)	☐ Loamy Gleyed Matrix (F2)
☐ Organic Bodies (A6) (LRR P, T, U)	☒ Depleted Matrix (F3)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Redox Dark Surface (F6)
☐ Muck Presence (A8) (LRR U)	☐ Depleted Dark Surface (F7)
☐ 1 cm Muck (A9) (LRR P, T)	☐ Redox Depressions (F8)
☐ Depleted Below Dark Surface (A11)	☐ Marl (F10) (LRR U)
☐ Thick Dark Surface (A12)	☐ Depleted Ochric (F11) (MLRA 151)
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)
☐ Iron Monosulfide (A18)	☐ Umbric Surface (F13) (LRR P, T, U)
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Stripped Matrix (S6)	☐ Anomalous Bright Floodplain Soils (F20)
☐ Dark Surface (S7) (LRR P, S, T, U)	(MLRA 149A, 153C, 153D)
☐ Polyvalue Below Surface (S8)	☐ Very Shallow Dark Surface (F22)
(LRR S, T, U)	(MLRA 138, 152A in FL, 154)

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Coast Prairie Redox (A16) (MLRA 149A)
☐ Reduced Vertic (F18)
(outside MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (LRR P, T)
☐ Anomalous Bright Floodplain Soils (F20)
(MLRA 153B)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
(outside MLRA 138, 152A in FL, 154)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	<i>OMB Control #: 0710-0024, Exp: 9/30/2027</i> <i>Requirement Control Symbol EXEMPT:</i> <i>(Authority: AR 335-15, paragraph 5-2a)</i>
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-4

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): Poorly drained forested area Local relief (concave, convex, none): concave Slope (%): <2

Subregion (LRR or MLRA): LRR O Lat: 30°19'4.45"N Long: 91°49'53.68"W Datum: NAD-83

Soil Map Unit Name: Dd - Dundee silt loam NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Poorly drained forested area due to surrounding development. Previously an agriculture field.	

HYDROLOGY

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

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

 Sampling Point: SP-4

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Fraxinus pennsylvanica</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>11</u> (A) Total Number of Dominant Species Across All Strata: <u>14</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>78.6%</u> (A/B)																
2. <u>Acer rubrum</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Morella cerifera</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Liquidambar styraciflua</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
<u>70</u> =Total Cover																				
50% of total cover: <u>35</u>		20% of total cover: <u>14</u>																		
Sapling Stratum (Plot size: <u>50</u>)																				
1. <u>Acer rubrum</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>115</u></td> <td>x 3 = <u>345</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>155</u> (A)</td> <td><u>465</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>115</u>	x 3 = <u>345</u>	FACU species <u>20</u>	x 4 = <u>80</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>155</u> (A)	<u>465</u> (B)	Prevalence Index = B/A = <u>3.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>115</u>	x 3 = <u>345</u>																			
FACU species <u>20</u>	x 4 = <u>80</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>155</u> (A)	<u>465</u> (B)																			
Prevalence Index = B/A = <u>3.00</u>																				
2. <u>Morella cerifera</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
<u>30</u> =Total Cover																				
50% of total cover: <u>15</u>		20% of total cover: <u>6</u>																		
Shrub Stratum (Plot size: <u>50</u>)																				
1. <u>Morella cerifera</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																
2. <u>Liquidambar styraciflua</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Juniperus virginiana</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
<u>20</u> =Total Cover																				
50% of total cover: <u>10</u>		20% of total cover: <u>4</u>																		
Herb Stratum (Plot size: <u>50</u>)																				
1. <u>Solidago altissima</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
2. <u>Cyperus eragrostis</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Symphyotrichum lateriflorum</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Toxicodendron radicans</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
<u>20</u> =Total Cover																				
50% of total cover: <u>10</u>		20% of total cover: <u>4</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. <u>Rubus trivialis</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. <u>Lygodium japonicum</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
<u>15</u> =Total Cover																				
50% of total cover: <u>8</u>		20% of total cover: <u>3</u>																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 4/2	90	10YR 5/6	10	D	M		Silty Clay
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)								Indicators for Problematic Hydric Soils³:
☐ Histosol (A1)			☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)	
☐ Histic Epipedon (A2)			☐ Barrier Islands 1 cm Muck (S12)				☐ 2 cm Muck (A10) (LRR S)	
☐ Black Histic (A3)			(MLRA 153B, 153D)				☐ Coast Prairie Redox (A16) (MLRA 149A)	
☐ Hydrogen Sulfide (A4)			☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18)	
☐ Stratified Layers (A5)			☐ Loamy Gleyed Matrix (F2)				(outside MLRA 150A, 150B)	
☐ Organic Bodies (A6) (LRR P, T, U)			☒ Depleted Matrix (F3)				☐ Piedmont Floodplain Soils (F19) (LRR P, T)	
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Redox Dark Surface (F6)				☐ Anomalous Bright Floodplain Soils (F20)	
☐ Muck Presence (A8) (LRR U)			☐ Depleted Dark Surface (F7)				(MLRA 153B)	
☐ 1 cm Muck (A9) (LRR P, T)			☐ Redox Depressions (F8)				☐ Red Parent Material (F21)	
☐ Depleted Below Dark Surface (A11)			☐ Marl (F10) (LRR U)				☐ Very Shallow Dark Surface (F22)	
☐ Thick Dark Surface (A12)			☐ Depleted Ochric (F11) (MLRA 151)				(outside MLRA 138, 152A in FL, 154)	
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)				☐ Other (Explain in Remarks)	
☐ Iron Monosulfide (A18)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Floodplain Soils (F20)					
☐ Dark Surface (S7) (LRR P, S, T, U)			(MLRA 149A, 153C, 153D)					
☐ Polyvalue Below Surface (S8)			☐ Very Shallow Dark Surface (F22)					
(LRR S, T, U)			(MLRA 138, 152A in FL, 154)					
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes <u> X </u> No <u> </u>	
Remarks:								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	<i>OMB Control #: 0710-0024, Exp: 9/30/2027</i> <i>Requirement Control Symbol EXEMPT:</i> <i>(Authority: AR 335-15, paragraph 5-2a)</i>
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-5

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): Poorly drained grown up ag field Local relief (concave, convex, none): concave Slope (%): <2

Subregion (LRR or MLRA): LRR O Lat: 30°18'56.51"N Long: 91°50'7.36"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Poorly drained grown up ag field.	

HYDROLOGY

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

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

 Sampling Point: SP-5

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>88.9%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>55</u></td> <td>x 1 = <u>55</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>40</u></td> <td>x 3 = <u>120</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>115</u> (A)</td> <td><u>235</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.04</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>55</u>	x 1 = <u>55</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>40</u>	x 3 = <u>120</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>115</u> (A)	<u>235</u> (B)	Prevalence Index = B/A = <u>2.04</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>55</u>	x 1 = <u>55</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>40</u>	x 3 = <u>120</u>																			
FACU species <u>10</u>	x 4 = <u>40</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>115</u> (A)	<u>235</u> (B)																			
Prevalence Index = B/A = <u>2.04</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% ☒ <u>3</u> - Prevalence Index is ≤3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)																				
1. <u>Salix nigra</u>	<u>5</u>	<u>Yes</u>	<u>OBL</u>	Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
2. <u>Baccharis halimifolia</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Triadica sebifera</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		<u>20</u> =Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
50% of total cover: <u>10</u>		20% of total cover: <u>4</u>																		
Herb Stratum (Plot size: <u>50</u>)																				
1. <u>Solidago canadensis</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	_____																
2. <u>Cyperus esculentus</u>	<u>15</u>	<u>Yes</u>	<u>OBL</u>																	
3. <u>Lythrum alatum</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>																	
4. <u>Eleocharis minima</u>	<u>15</u>	<u>Yes</u>	<u>OBL</u>																	
5. <u>Pluchea baccharis</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
		<u>65</u> =Total Cover																		
50% of total cover: <u>33</u>		20% of total cover: <u>13</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. <u>Rubus trivialis</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>	_____																
2. <u>Lygodium japonicum</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Campsis radicans</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		<u>30</u> =Total Cover																		
50% of total cover: <u>15</u>		20% of total cover: <u>6</u>																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 4/1	95	10YR 5/6	5	D	M		Clay
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.						² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)			☐ Barrier Islands 1 cm Muck (S12)			☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)			☐ (MLRA 153B, 153D)			☐ Coast Prairie Redox (A16) (MLRA 149A)		
☐ Hydrogen Sulfide (A4)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18)		
☐ Stratified Layers (A5)			☐ Loamy Gleyed Matrix (F2)			☐ (outside MLRA 150A, 150B)		
☐ Organic Bodies (A6) (LRR P, T, U)			☒ Depleted Matrix (F3)			☐ Piedmont Floodplain Soils (F19) (LRR P, T)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ Anomalous Bright Floodplain Soils (F20)		
☐ Muck Presence (A8) (LRR U)			☐ Depleted Dark Surface (F7)			☐ (MLRA 153B)		
☐ 1 cm Muck (A9) (LRR P, T)			☐ Redox Depressions (F8)			☐ Red Parent Material (F21)		
☐ Depleted Below Dark Surface (A11)			☐ Marl (F10) (LRR U)			☐ Very Shallow Dark Surface (F22)		
☐ Thick Dark Surface (A12)			☐ Depleted Ochric (F11) (MLRA 151)			☐ (outside MLRA 138, 152A in FL, 154)		
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)			☐ Other (Explain in Remarks)		
☐ Iron Monosulfide (A18)			☐ Umbric Surface (F13) (LRR P, T, U)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Floodplain Soils (F20)					
☐ Dark Surface (S7) (LRR P, S, T, U)			☐ (MLRA 149A, 153C, 153D)					
☐ Polyvalue Below Surface (S8)			☐ Very Shallow Dark Surface (F22)					
☐ (LRR S, T, U)			☐ (MLRA 138, 152A in FL, 154)					
Restrictive Layer (if observed):						Hydric Soil Present? Yes <u> X </u> No <u> </u>		
Type: _____ Depth (inches): _____								
Remarks:								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	<i>OMB Control #: 0710-0024, Exp: 9/30/2027</i> <i>Requirement Control Symbol EXEMPT:</i> <i>(Authority: AR 335-15, paragraph 5-2a)</i>
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-6

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): sugar cane field Local relief (concave, convex, none): convex Slope (%): 2

Subregion (LRR or MLRA): LRR O Lat: 30°18'57.87"N Long: 91°50'13.87"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Sugar cane field.	

HYDROLOGY

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

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

 Sampling Point: SP-6

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>100</u>	x 4 = <u>400</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>400</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)				Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Herb Stratum (Plot size: <u>50</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																
1. <u>Saccharum officinarum</u>	100	Yes	FACU																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
		100 =Total Cover																		
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100						Silty Clay
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)								Indicators for Problematic Hydric Soils³:
☐ Histosol (A1)			☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)	
☐ Histic Epipedon (A2)			☐ Barrier Islands 1 cm Muck (S12)				☐ 2 cm Muck (A10) (LRR S)	
☐ Black Histic (A3)			☐ (MLRA 153B, 153D)				☐ Coast Prairie Redox (A16) (MLRA 149A)	
☐ Hydrogen Sulfide (A4)			☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18)	
☐ Stratified Layers (A5)			☐ Loamy Gleyed Matrix (F2)				☐ (outside MLRA 150A, 150B)	
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Depleted Matrix (F3)				☐ Piedmont Floodplain Soils (F19) (LRR P, T)	
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Redox Dark Surface (F6)				☐ Anomalous Bright Floodplain Soils (F20)	
☐ Muck Presence (A8) (LRR U)			☐ Depleted Dark Surface (F7)				☐ (MLRA 153B)	
☐ 1 cm Muck (A9) (LRR P, T)			☐ Redox Depressions (F8)				☐ Red Parent Material (F21)	
☐ Depleted Below Dark Surface (A11)			☐ Marl (F10) (LRR U)				☐ Very Shallow Dark Surface (F22)	
☐ Thick Dark Surface (A12)			☐ Depleted Ochric (F11) (MLRA 151)				☐ (outside MLRA 138, 152A in FL, 154)	
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)				☐ Other (Explain in Remarks)	
☐ Iron Monosulfide (A18)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Floodplain Soils (F20)					
☐ Dark Surface (S7) (LRR P, S, T, U)			☐ (MLRA 149A, 153C, 153D)					
☐ Polyvalue Below Surface (S8)			☐ Very Shallow Dark Surface (F22)					
☐ (LRR S, T, U)			☐ (MLRA 138, 152A in FL, 154)					
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes _____ No <u>X</u>	
Remarks:								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	<i>OMB Control #: 0710-0024, Exp: 9/30/2027</i> <i>Requirement Control Symbol EXEMPT:</i> <i>(Authority: AR 335-15, paragraph 5-2a)</i>
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-7

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): sugar cane field Local relief (concave, convex, none): convex Slope (%): 2

Subregion (LRR or MLRA): LRR O Lat: 30°18'53.75"N Long: 91°50'19.63"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Sugar cane field.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ☐ 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)	<u>Secondary Indicators (minimum of two required)</u> ☐ 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 <u> </u> No <u>x</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>x</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

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

 Sampling Point: SP-7

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>100</u>	x 4 = <u>400</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>400</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)				Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Herb Stratum (Plot size: <u>50</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u> </u> X																
1. <u>Saccharum officinarum</u>	100	Yes	FACU																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
		100 =Total Cover																		
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100						Silty Clay
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)								Indicators for Problematic Hydric Soils³:
☐ Histosol (A1)			☐ Thin Dark Surface (S9) (LRR S, T, U)				☐ 1 cm Muck (A9) (LRR O)	
☐ Histic Epipedon (A2)			☐ Barrier Islands 1 cm Muck (S12)				☐ 2 cm Muck (A10) (LRR S)	
☐ Black Histic (A3)			(MLRA 153B, 153D)				☐ Coast Prairie Redox (A16) (MLRA 149A)	
☐ Hydrogen Sulfide (A4)			☐ Loamy Mucky Mineral (F1) (LRR O)				☐ Reduced Vertic (F18)	
☐ Stratified Layers (A5)			☐ Loamy Gleyed Matrix (F2)				(outside MLRA 150A, 150B)	
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Depleted Matrix (F3)				☐ Piedmont Floodplain Soils (F19) (LRR P, T)	
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Redox Dark Surface (F6)				☐ Anomalous Bright Floodplain Soils (F20)	
☐ Muck Presence (A8) (LRR U)			☐ Depleted Dark Surface (F7)				(MLRA 153B)	
☐ 1 cm Muck (A9) (LRR P, T)			☐ Redox Depressions (F8)				☐ Red Parent Material (F21)	
☐ Depleted Below Dark Surface (A11)			☐ Marl (F10) (LRR U)				☐ Very Shallow Dark Surface (F22)	
☐ Thick Dark Surface (A12)			☐ Depleted Ochric (F11) (MLRA 151)				(outside MLRA 138, 152A in FL, 154)	
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)				☐ Other (Explain in Remarks)	
☐ Iron Monosulfide (A18)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Floodplain Soils (F20)					
☐ Dark Surface (S7) (LRR P, S, T, U)			(MLRA 149A, 153C, 153D)					
☐ Polyvalue Below Surface (S8)			☐ Very Shallow Dark Surface (F22)					
(LRR S, T, U)			(MLRA 138, 152A in FL, 154)					
Restrictive Layer (if observed): Type: _____ Depth (inches): _____							Hydric Soil Present? Yes _____ No <u>X</u>	
Remarks:								

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

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	<i>OMB Control #: 0710-0024, Exp: 9/30/2027</i> <i>Requirement Control Symbol EXEMPT:</i> <i>(Authority: AR 335-15, paragraph 5-2a)</i>
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-8

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): sugar cane field Local relief (concave, convex, none): convex Slope (%): 2

Subregion (LRR or MLRA): LRR O Lat: 30°19'5.05"N Long: 91°50'37.62"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Sugar cane field.	

HYDROLOGY

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

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

 Sampling Point: SP-8

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>100</u>	x 4 = <u>400</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>400</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____	Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Herb Stratum (Plot size: <u>50</u>)																				
1. <u>Saccharum officinarum</u>	100	Yes	FACU	Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
		100 =Total Cover																		
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-8**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100						Silty Clay

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)	☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Histic Epipedon (A2)	☐ Barrier Islands 1 cm Muck (S12)
☐ Black Histic (A3)	(MLRA 153B, 153D)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (LRR O)
☐ Stratified Layers (A5)	☐ Loamy Gleyed Matrix (F2)
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Depleted Matrix (F3)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Redox Dark Surface (F6)
☐ Muck Presence (A8) (LRR U)	☐ Depleted Dark Surface (F7)
☐ 1 cm Muck (A9) (LRR P, T)	☐ Redox Depressions (F8)
☐ Depleted Below Dark Surface (A11)	☐ Marl (F10) (LRR U)
☐ Thick Dark Surface (A12)	☐ Depleted Ochric (F11) (MLRA 151)
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)
☐ Iron Monosulfide (A18)	☐ Umbric Surface (F13) (LRR P, T, U)
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Stripped Matrix (S6)	☐ Anomalous Bright Floodplain Soils (F20)
☐ Dark Surface (S7) (LRR P, S, T, U)	(MLRA 149A, 153C, 153D)
☐ Polyvalue Below Surface (S8)	☐ Very Shallow Dark Surface (F22)
(LRR S, T, U)	(MLRA 138, 152A in FL, 154)

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Coast Prairie Redox (A16) (MLRA 149A)
☐ Reduced Vertic (F18)
(outside MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (LRR P, T)
☐ Anomalous Bright Floodplain Soils (F20)
(MLRA 153B)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
(outside MLRA 138, 152A in FL, 154)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	<i>OMB Control #: 0710-0024, Exp: 9/30/2027</i> <i>Requirement Control Symbol EXEMPT:</i> <i>(Authority: AR 335-15, paragraph 5-2a)</i>
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-9

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): soybean field Local relief (concave, convex, none): nona Slope (%): <2

Subregion (LRR or MLRA): LRR O Lat: 30°19'8.04"N Long: 91°50'31.64"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Harvested soybean field.	

HYDROLOGY

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

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

 Sampling Point: SP-9

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>15</u> (A)</td> <td><u>55</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.67</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>15</u> (A)	<u>55</u> (B)	Prevalence Index = B/A = <u>3.67</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>5</u>	x 3 = <u>15</u>																			
FACU species <u>10</u>	x 4 = <u>40</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>15</u> (A)	<u>55</u> (B)																			
Prevalence Index = B/A = <u>3.67</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)				Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Herb Stratum (Plot size: <u>50</u>)																				
1. <u>Rubus argutus</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Sorghum halepense</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: <u>8</u>		20% of total cover: <u>3</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/1	100						Silty Clay
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.						² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
☐ Histosol (A1)			☐ Thin Dark Surface (S9) (LRR S, T, U)			☐ 1 cm Muck (A9) (LRR O)		
☐ Histic Epipedon (A2)			☐ Barrier Islands 1 cm Muck (S12)			☐ 2 cm Muck (A10) (LRR S)		
☐ Black Histic (A3)			☐ (MLRA 153B, 153D)			☐ Coast Prairie Redox (A16) (MLRA 149A)		
☐ Hydrogen Sulfide (A4)			☐ Loamy Mucky Mineral (F1) (LRR O)			☐ Reduced Vertic (F18)		
☐ Stratified Layers (A5)			☐ Loamy Gleyed Matrix (F2)			☐ (outside MLRA 150A, 150B)		
☐ Organic Bodies (A6) (LRR P, T, U)			☐ Depleted Matrix (F3)			☐ Piedmont Floodplain Soils (F19) (LRR P, T)		
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Redox Dark Surface (F6)			☐ Anomalous Bright Floodplain Soils (F20)		
☐ Muck Presence (A8) (LRR U)			☐ Depleted Dark Surface (F7)			☐ (MLRA 153B)		
☐ 1 cm Muck (A9) (LRR P, T)			☐ Redox Depressions (F8)			☐ Red Parent Material (F21)		
☐ Depleted Below Dark Surface (A11)			☐ Marl (F10) (LRR U)			☐ Very Shallow Dark Surface (F22)		
☐ Thick Dark Surface (A12)			☐ Depleted Ochric (F11) (MLRA 151)			☐ (outside MLRA 138, 152A in FL, 154)		
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)			☐ Other (Explain in Remarks)		
☐ Iron Monosulfide (A18)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Floodplain Soils (F20)					
☐ Dark Surface (S7) (LRR P, S, T, U)			☐ (MLRA 149A, 153C, 153D)					
☐ Polyvalue Below Surface (S8)			☐ Very Shallow Dark Surface (F22)					
☐ (LRR S, T, U)			☐ (MLRA 138, 152A in FL, 154)					
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____								
						Hydric Soil Present? Yes _____ No <u>X</u>		
Remarks:								

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

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: <i>(Authority: AR 335-15, paragraph 5-2a)</i>
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-10

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): Sugar cane field Local relief (concave, convex, none): convex Slope (%): 2

Subregion (LRR or MLRA): LRR O Lat: 30°19'11.02"N Long: 91°50'2.06"W Datum: NAD-83

Soil Map Unit Name: Dd - Dundee silt loam NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Sugarcane field.	

HYDROLOGY

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

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

 Sampling Point: SP-10

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>100</u>	x 4 = <u>400</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>400</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Herb Stratum (Plot size: <u>50</u>)				Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
1. <u>Saccharum officinarum</u>	100	Yes	FACU																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
		100 =Total Cover																		
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-10**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100						Silty Clay

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)	☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Histic Epipedon (A2)	☐ Barrier Islands 1 cm Muck (S12)
☐ Black Histic (A3)	☐ (MLRA 153B, 153D)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (LRR O)
☐ Stratified Layers (A5)	☐ Loamy Gleyed Matrix (F2)
☐ Organic Bodies (A6) (LRR P, T, U)	☐ Depleted Matrix (F3)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Redox Dark Surface (F6)
☐ Muck Presence (A8) (LRR U)	☐ Depleted Dark Surface (F7)
☐ 1 cm Muck (A9) (LRR P, T)	☐ Redox Depressions (F8)
☐ Depleted Below Dark Surface (A11)	☐ Marl (F10) (LRR U)
☐ Thick Dark Surface (A12)	☐ Depleted Ochric (F11) (MLRA 151)
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)
☐ Iron Monosulfide (A18)	☐ Umbric Surface (F13) (LRR P, T, U)
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Stripped Matrix (S6)	☐ Anomalous Bright Floodplain Soils (F20)
☐ Dark Surface (S7) (LRR P, S, T, U)	☐ (MLRA 149A, 153C, 153D)
☐ Polyvalue Below Surface (S8)	☐ Very Shallow Dark Surface (F22)
☐ (LRR S, T, U)	☐ (MLRA 138, 152A in FL, 154)

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Coast Prairie Redox (A16) (MLRA 149A)
☐ Reduced Vertic (F18)
☐ (outside MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (LRR P, T)
☐ Anomalous Bright Floodplain Soils (F20)
☐ (MLRA 153B)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ (outside MLRA 138, 152A in FL, 154)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-11

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): poorly drained forested area Local relief (concave, convex, none): concave Slope (%): 2

Subregion (LRR or MLRA): LRR O Lat: 30°19'15.51"N Long: 91°49'53.33"W Datum: NAD-83

Soil Map Unit Name: Te - Tensas silty clay loam, 0 to 1 percent slopes NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Poorly drained forested area due to surrounding development. Recieves flood water from adjacent canal to the north.	

HYDROLOGY

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

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

 Sampling Point: SP-11

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus nigra</u>	<u>60</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>13</u> (A) Total Number of Dominant Species Across All Strata: <u>13</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Carya cordiformis</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
75 = Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species <u>150</u></td> <td>x 3 = <u>450</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>190</u> (A)</td> <td><u>530</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.79</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>40</u>	x 2 = <u>80</u>	FAC species <u>150</u>	x 3 = <u>450</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>190</u> (A)	<u>530</u> (B)	Prevalence Index = B/A = <u>2.79</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>40</u>	x 2 = <u>80</u>																			
FAC species <u>150</u>	x 3 = <u>450</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>190</u> (A)	<u>530</u> (B)																			
Prevalence Index = B/A = <u>2.79</u>																				
50% of total cover: <u>38</u> 20% of total cover: <u>15</u>																				
Sapling Stratum (Plot size: <u>50</u>)																				
1. <u>Quercus nigra</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																
2. <u>Celtis laevigata</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
25 = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
50% of total cover: <u>13</u> 20% of total cover: <u>5</u>																				
Shrub Stratum (Plot size: <u>50</u>)																				
1. <u>Ulmus americana</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
2. <u>Quercus nigra</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Sabal minor</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
25 = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
50% of total cover: <u>13</u> 20% of total cover: <u>5</u>																				
Herb Stratum (Plot size: <u>50</u>)																				
1. <u>Campsis radicans</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	_____																
2. <u>Toxicodendron radicans</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Symphyotrichum lanceolatum</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Carex intumescens</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
40 = Total Cover																				
50% of total cover: <u>20</u> 20% of total cover: <u>8</u>																				
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. <u>Smilax rotundifolia</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	_____																
2. <u>Campsis radicans</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Toxicodendron radicans</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
25 = Total Cover																				
50% of total cover: <u>13</u> 20% of total cover: <u>5</u>																				
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-11**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 4/1	95	10YR 5/6	5	D	M		Clay

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)	☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Histic Epipedon (A2)	☐ Barrier Islands 1 cm Muck (S12)
☐ Black Histic (A3)	(MLRA 153B, 153D)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (LRR O)
☐ Stratified Layers (A5)	☐ Loamy Gleyed Matrix (F2)
☐ Organic Bodies (A6) (LRR P, T, U)	☒ Depleted Matrix (F3)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Redox Dark Surface (F6)
☐ Muck Presence (A8) (LRR U)	☐ Depleted Dark Surface (F7)
☐ 1 cm Muck (A9) (LRR P, T)	☐ Redox Depressions (F8)
☐ Depleted Below Dark Surface (A11)	☐ Marl (F10) (LRR U)
☐ Thick Dark Surface (A12)	☐ Depleted Ochric (F11) (MLRA 151)
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)
☐ Iron Monosulfide (A18)	☐ Umbric Surface (F13) (LRR P, T, U)
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Stripped Matrix (S6)	☐ Anomalous Bright Floodplain Soils (F20)
☐ Dark Surface (S7) (LRR P, S, T, U)	(MLRA 149A, 153C, 153D)
☐ Polyvalue Below Surface (S8)	☐ Very Shallow Dark Surface (F22)
(LRR S, T, U)	(MLRA 138, 152A in FL, 154)

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Coast Prairie Redox (A16) (MLRA 149A)
☐ Reduced Vertic (F18)
(outside MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (LRR P, T)
☐ Anomalous Bright Floodplain Soils (F20)
(MLRA 153B)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
(outside MLRA 138, 152A in FL, 154)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-12

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): Well drained ridge field Local relief (concave, convex, none): convex Slope (%): 3

Subregion (LRR or MLRA): LRR O Lat: 30°19'11.98"N Long: 91°49'55.88"W Datum: NAD-83

Soil Map Unit Name: Dd - Dundee silt loam NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: Well drained ridge that is now a grown up ag field.	

HYDROLOGY

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

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

 Sampling Point: SP-12

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>25</u></td> <td>x 2 = <u>50</u></td> </tr> <tr> <td>FAC species <u>55</u></td> <td>x 3 = <u>165</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>335</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.05</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>25</u>	x 2 = <u>50</u>	FAC species <u>55</u>	x 3 = <u>165</u>	FACU species <u>30</u>	x 4 = <u>120</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>110</u> (A)	<u>335</u> (B)	Prevalence Index = B/A = <u>3.05</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>25</u>	x 2 = <u>50</u>																			
FAC species <u>55</u>	x 3 = <u>165</u>																			
FACU species <u>30</u>	x 4 = <u>120</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>110</u> (A)	<u>335</u> (B)																			
Prevalence Index = B/A = <u>3.05</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)				Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
1. <u>Liquidambar styraciflua</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Quercus nigra</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Triadica sebifera</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: <u>10</u>		20% of total cover: <u>4</u>																		
Herb Stratum (Plot size: <u>50</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
1. <u>Solidago altissima</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u>Cyperus eragrostis</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Verbena bonariensis</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Eupatorium serotinum</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
5. <u>Paspalum urvillei</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
6. <u>Andropogon virginicus</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: <u>45</u>		20% of total cover: <u>18</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-12**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	100						Silty Clay
3-16	10YR 4/2	90	10YR 5/8	10	D	M		Silty Clay

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)	☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Histic Epipedon (A2)	☐ Barrier Islands 1 cm Muck (S12)
☐ Black Histic (A3)	(MLRA 153B, 153D)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (LRR O)
☐ Stratified Layers (A5)	☐ Loamy Gleyed Matrix (F2)
☐ Organic Bodies (A6) (LRR P, T, U)	☒ Depleted Matrix (F3)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)	☐ Redox Dark Surface (F6)
☐ Muck Presence (A8) (LRR U)	☐ Depleted Dark Surface (F7)
☐ 1 cm Muck (A9) (LRR P, T)	☐ Redox Depressions (F8)
☐ Depleted Below Dark Surface (A11)	☐ Marl (F10) (LRR U)
☐ Thick Dark Surface (A12)	☐ Depleted Ochric (F11) (MLRA 151)
☐ Coast Prairie Redox (A16) (MLRA 150A)	☐ Iron-Manganese Masses (F12) (LRR O, P, T)
☐ Iron Monosulfide (A18)	☐ Umbric Surface (F13) (LRR P, T, U)
☐ Sandy Mucky Mineral (S1) (LRR O, S)	☐ Delta Ochric (F17) (MLRA 151)
☐ Sandy Gleyed Matrix (S4)	☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Sandy Redox (S5)	☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Stripped Matrix (S6)	☐ Anomalous Bright Floodplain Soils (F20)
☐ Dark Surface (S7) (LRR P, S, T, U)	(MLRA 149A, 153C, 153D)
☐ Polyvalue Below Surface (S8)	☐ Very Shallow Dark Surface (F22)
(LRR S, T, U)	(MLRA 138, 152A in FL, 154)

Indicators for Problematic Hydric Soils³:

☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Coast Prairie Redox (A16) (MLRA 149A)
☐ Reduced Vertic (F18)
(outside MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (LRR P, T)
☐ Anomalous Bright Floodplain Soils (F20)
(MLRA 153B)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
(outside MLRA 138, 152A in FL, 154)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Henderson I-10 Project City/County: St. Martin Sampling Date: 11/11/2025

Applicant/Owner: One Acadiana State: LA Sampling Point: SP-13

Investigator(s): Steven David Section, Township, Range: Section 40, Township 8 South, Range 6 West

Landform (hillside, terrace, etc.): Poorly drained grown up ag field Local relief (concave, convex, none): concave Slope (%): <2

Subregion (LRR or MLRA): LRR O Lat: 30°19'7.72"N Long: 91°49'59.51"W Datum: NAD-83

Soil Map Unit Name: Dd - Dundee silt loam NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No (If no, explain in Remarks.)

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

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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: Poorly drained grown up ag field.	

HYDROLOGY

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

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

 Sampling Point: SP-13

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>35</u></td> <td>x 1 = <u>35</u></td> </tr> <tr> <td>FACW species <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species <u>70</u></td> <td>x 3 = <u>210</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>135</u> (A)</td> <td><u>305</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.26</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>35</u>	x 1 = <u>35</u>	FACW species <u>30</u>	x 2 = <u>60</u>	FAC species <u>70</u>	x 3 = <u>210</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>135</u> (A)	<u>305</u> (B)	Prevalence Index = B/A = <u>2.26</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>35</u>	x 1 = <u>35</u>																			
FACW species <u>30</u>	x 2 = <u>60</u>																			
FAC species <u>70</u>	x 3 = <u>210</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>135</u> (A)	<u>305</u> (B)																			
Prevalence Index = B/A = <u>2.26</u>																				
50% of total cover: _____		20% of total cover: _____																		
Sapling Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% ☒ <u>3</u> - Prevalence Index is ≤3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Shrub Stratum (Plot size: <u>50</u>)																				
1. <u>Baccharis halimifolia</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Salix nigra</u>	<u>10</u>	<u>Yes</u>	<u>OBL</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: <u>8</u>		20% of total cover: <u>3</u>																		
Herb Stratum (Plot size: <u>50</u>)																				
1. <u>Solidago canadensis</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	Definitions of Five 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, <u>and</u> woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.																
2. <u>Baccharis halimifolia</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
3. <u>Lythrum alatum</u>	<u>25</u>	<u>Yes</u>	<u>OBL</u>																	
4. <u>Andropogon glomeratus</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>																	
5. <u>Juncus tenuis</u>	<u>20</u>	<u>No</u>	<u>FAC</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: <u>60</u>		20% of total cover: <u>24</u>																		
Woody Vine Stratum (Plot size: <u>50</u>)																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
		=Total Cover																		
50% of total cover: _____		20% of total cover: _____																		
Remarks: (If observed, list morphological adaptations below.)																				

SOIL

Sampling Point: SP-13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 4/2	95	10YR 5/8	5	D	PL/M		Silty Clay
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					² Location: PL=Pore Lining, M=Matrix.			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)					Indicators for Problematic Hydric Soils³:			
☐ Histosol (A1)			☐ Thin Dark Surface (S9) (LRR S, T, U)		☐ 1 cm Muck (A9) (LRR O)			
☐ Histic Epipedon (A2)			☐ Barrier Islands 1 cm Muck (S12)		☐ 2 cm Muck (A10) (LRR S)			
☐ Black Histic (A3)			☐ (MLRA 153B, 153D)		☐ Coast Prairie Redox (A16) (MLRA 149A)			
☐ Hydrogen Sulfide (A4)			☐ Loamy Mucky Mineral (F1) (LRR O)		☐ Reduced Vertic (F18)			
☐ Stratified Layers (A5)			☐ Loamy Gleyed Matrix (F2)		☐ (outside MLRA 150A, 150B)			
☐ Organic Bodies (A6) (LRR P, T, U)			☒ Depleted Matrix (F3)		☐ Piedmont Floodplain Soils (F19) (LRR P, T)			
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)			☐ Redox Dark Surface (F6)		☐ Anomalous Bright Floodplain Soils (F20)			
☐ Muck Presence (A8) (LRR U)			☐ Depleted Dark Surface (F7)		☐ (MLRA 153B)			
☐ 1 cm Muck (A9) (LRR P, T)			☐ Redox Depressions (F8)		☐ Red Parent Material (F21)			
☐ Depleted Below Dark Surface (A11)			☐ Marl (F10) (LRR U)		☐ Very Shallow Dark Surface (F22)			
☐ Thick Dark Surface (A12)			☐ Depleted Ochric (F11) (MLRA 151)		☐ (outside MLRA 138, 152A in FL, 154)			
☐ Coast Prairie Redox (A16) (MLRA 150A)			☐ Iron-Manganese Masses (F12) (LRR O, P, T)		☐ Other (Explain in Remarks)			
☐ Iron Monosulfide (A18)			☐ Umbric Surface (F13) (LRR P, T, U)					
☐ Sandy Mucky Mineral (S1) (LRR O, S)			☐ Delta Ochric (F17) (MLRA 151)					
☐ Sandy Gleyed Matrix (S4)			☐ Reduced Vertic (F18) (MLRA 150A, 150B)					
☐ Sandy Redox (S5)			☐ Piedmont Floodplain Soils (F19) (MLRA 149A)					
☐ Stripped Matrix (S6)			☐ Anomalous Bright Floodplain Soils (F20)					
☐ Dark Surface (S7) (LRR P, S, T, U)			☐ (MLRA 149A, 153C, 153D)					
☐ Polyvalue Below Surface (S8)			☐ Very Shallow Dark Surface (F22)					
☐ (LRR S, T, U)			☐ (MLRA 138, 152A in FL, 154)					
Restrictive Layer (if observed):								
Type: _____								
Depth (inches): _____								
					Hydric Soil Present? Yes <u> X </u> No <u> </u>			
Remarks:								

