



Exhibit FF. Loul's Landing Wetlands Delineation Report











Loul's Landing Wetlands Delineation Report

One Acadiana

Loul's Landing Site

Lafayette Parish, LA

December 2021

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1.0 INTRODUCTION

A routine wetland delineation was conducted by Blue Ox Enterprises, LLC (Blue Ox) on December 23, 2021 for the approximately 71.52 acre Loul's Landing Site, in Broussard, LA (Site). The purpose of the wetland delineation was to determine the presence/absence of wetlands at the Site. The Site is situated on land that's prior use was agricultural activities, primarily sugar cane production.

The Site is in Section 34, T10S-E05E. Geographically, the Site is located 1.6 miles southeasterly from Broussard, Louisiana in Lafayette Parish. The location of the Site is illustrated on the maps in **Appendix A**.

2.0 METHODOLOGY

A review of the project site was conducted with the following tools to identify potential wetland indicators according to the 1987 Wetland Delineation Manual and Regional Supplement:

- USGS 7.5-minute topographic quadrangle maps,
- National Wetlands Inventory Maps
- Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979);
- The PLANTS Database (USDA / NRCS);
- U.S. Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS) Web Soil Survey
- USGS National Hydrography Dataset (NHD);
- Remote Sensing Aerial Photography including National Agricultural Imagery Program (NAIP) natural color and color infrared aerial photography;
- FEMA Floodplain Maps

Data sources were utilized as appropriate, findings were summarized, and a preliminary evaluation was conducted to determine potential existence of wetland indicators in the project area. After considering the preliminary data, a routine delineation method level was selected.

Per the 1987 Wetland Delineation Manual, the complexity of the project area and the quality and quantity of available information will be the influences governing the Routine Wetland Delineation Level. The three levels are as follows:

- <u>Level 1</u> An onsite inspection is unnecessary because existing information is sufficient for making a
 determination for the entire project area.
- <u>Level 2</u> An onsite inspection is necessary because insufficient information is available to characterize the vegetation, soils, and hydrology of the entire project area.
- <u>Level 3</u> An onsite inspection is necessary because sufficient information is available for a portion, but not all, of the project area.

This routine wetland delineation is a Level 2 Delineation. The delineators evaluated the three technical criteria: vegetation, hydrology, and soils in accordance with the 1987 U.S. Army Corps of Engineers (COE) Wetlands Delineation Manual, and the Gulf Coastal Plain Regional Supplement to the 1987 manual. All three criteria must be present in order to be a potentially jurisdictional wetland. The absence of any of these criteria could exclude an area from being a wetland under the jurisdiction of the Corps of Engineers. As per the 1987 U.S. Army Corps of Engineers (COE) Wetlands Delineation Manual, and the Gulf Coastal Plain Regional Supplement to the 1987 manual, the methodology for the delineation of the Site.

3.0 FINDINGS

A total of ten sample plots were taken on the Site. The sample plot locations were selected based on visual observations of changes in vegetation and/or topography. Locations of the sample plots relative to the Site can be referenced in **Appendix A**. Photographs are presented in **Appendix B**. The photographs illustrate typical conditions that were observed at the plots and various locations. Recorded data forms are presented in **Appendix C**.

3.1 Hydrology

3.1.1 General Site Characteristics

The Site exists on a relatively flat landform. Generally, slopes range from 0-2%. Surface saturation was observed on referenced infrared images. Surface water retention and surface drainage are the primary conditions influencing the hydrology of the Site. Surface water runoff is collected in a series of man-made ditches having connectivity to ephemeral tributaries of Cypress Bayou, the nearest named stream according to the USGS topographic map. There were four observed and documented non-wetland water features & three wetlands within the Site. The locations of these features in relation to the Site can be referenced in **Appendix A**.

3.1.2 Sample Plot Data

Two sample plots met the criteria for the presence of wetland hydrology. Sample Plots 4 and 8 met primary indicators of a high water table and saturation. Secondary indicators were crayfish burrows, and saturation visible on aerial imagery. The wetland hydrology indicators, remarks, and determinations can be reviewed in detail on the data sheets located in **Appendix C**.

3.2 Vegetation

3.2.1 General Site Characteristics

The Site is located within an area that was previously used for agriculture production. The current vegetation can be characterized as herbaceous communities of those species listed in the vegetation documentation of the attached data sheets of **Appendix C**. Photos of vegetative characteristics associated with each plot and of the Site can be referenced in **Appendix B**.

3.2.2 Sample Plot Data

Sample plots 4 and 8 met the criteria for presence of wetland vegetation. The vegetation for all Sample Plots is documented the corresponding data sheets of in **Appendix C**. Dominance/Prevalence calculations, vegetation, criteria determination can also be referenced in the corresponding data sheets. Photos illustrating vegetative characteristics at each plot can be referenced in **Appendix B**.



3.3 Soils

3.3.1 General Site Characteristics

According to the Lafayette Parish Soil Survey, the Site contains the following NRCS mapped soil types (Appendix A):

Map Symbol	Map Symbol Soil Name	
MbA	MbA Memphis silt loam, 0 to 1 percent slopes	
CtB Coteau-Frost complex, gently undulating		35% hydric
CoA	CoA Coteau silt loam, 0 to 1 percent slopes	
MbC	MbC Memphis silt loam, 1 to 5 percent slopes	
FoA Frost silt loam, 0 to 1 percent slopes,90%		90% hydric

The site is located within the above listed NRCS-mapped soil units and the Site is comprised predominately of nonhydric soils according to the hydric ratings.

3.3.2 Sample Plot Data

All Sample plots met the criteria for the presence of hydric soil for a wetland. Depleted Matrix and Redox Dark Surface were the hydric soil indicators that were observed. Soil characteristics associated with each plot can be found in the corresponding data sheets located in Appendix C.

4.0 **SUMMARY AND CONCLUSIONS**

4.1 **Data Summary**

Sample plots 4 & 8 met all three technical criteria of a wetland. The following table illustrates the results of the sample plot data:

Data Plot	Hydrology	Vegetation	Soils
Plot 1	N	N	Υ
Plot 2	N	N	Υ
Plot 3	N	N	Υ
Plot 4	Υ	Υ	Υ
Plot 5	N	N	Υ
Plot 6	N	N	Υ
Plot 7	N	N	Υ
Plot 8	Υ	Υ	Υ
Plot 9	N	N	Υ
Plot 10	N	N	Υ



The following table illustrates the approximate dimensions and sizes of the non-wetland waters and wetland features on the site:

	Non-Wetland Waters					
Feature #	Dimensions/Acres	Potentially Jurisdictional				
W-1	±10' x ±3' OHWM x 495' (0.07 Acres)	NO				
W-2	±10' x ±1' OHWM x 527' (0.11 Acres) NO					
W-3	±10' x ±3' OHWM x 804' (0.19 Acres)	NO				
W-4	±10' x ±2' OHWM x 473' ±6' x ±1 OHWM x 607' (0.21 Acres)	YES				
	Wetlands					
1	0.18 Acres	YES				
2	0.1 Acres	YES				
3	0.29 Acres	YES				

4.2 Conclusion

Based on the data collected, it is Blue Ox's opinion the site contains four non-wetland water features (field ditches) that are approximately 495 feet, 527 feet, 804 feet and 1,080 feet in length. The site also contains three wetland features on the site. The wetlands are approximately 0.18 acres (Wetland 1), 0.1 acres (Wetland 2) and 0.29 acres (Wetland 3) in size. It is Blue Ox's opinion that one non-wetland water feature (W-4) is potentially jurisdictional due to its proximity to herbaceous wetlands (Wetland 2 & 3) and having indirect connectivity to the nearest relatively permanent water, Cypress Bayou. The Site is illustrated in the maps of **Appendix A** and represented by the wetland determination forms of **Appendix C**.

The limits of the Site were not staked at the time of the delineation. It is recommended that any mechanized land clearing, or redistribution of earthen material outside the limits of the area depicted in this report, the Site may require additional data collection and determinations. Mechanized land clearing, tracking, soil disturbance or other temporary or permanent fill within wetlands or other waters would require a USACE permit.

A jurisdictional wetland determination can only be made by the U.S. Corps of Engineers (USACE). Consultants such as Blue Ox can perform wetland delineations, and submit data collected in the prescribed manner to the USACE along with recommendations; however, it is the USACE that makes the final determination. The New Orleans District of the USACE has jurisdiction in the area of this site.

5.0 REFERENCES

Corps of Engineers Wetlands Delineation Manual. 1987. Technical Report Y-87-1.

National List of Vascular Plants Species that Occur in Wetlands. Prepared by Ecology Section, National Wetlands Inventory, U.S. Fish and Wildlife Service.

U.S. Department of Agriculture, Natural Resources Conservation Service. 1998. Field Indicators of Hydric Soils in the United States, version 6.0. G.W. Hurt, Whited, P.M., and Pringle, R.F. (eds.). USDA, NRCS, Fort Worth, TX.

Soil Mapping Units and Hydric Soils Designations Louisiana. May 1995. Third Edition

U.S. Army Corps of Engineers. October 2008. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region. Final Report



6.0 **DEFINITIONS**

Term	Definition			
Aerobic	A situation in which molecular oxygen is a part of the environment.			
Anaerobic	A situation in which molecular oxygen is absent (or effectively so) from the environment			
Atypical situation	As used herein, this term refers to areas in which one or more parameters (vegetation, soil, and/or hydrology) have been sufficiently altered by recent human activities or natural events to preclude the presence of wetland indicators of the parameter.			
Dominance Test	This evaluation test ranks plant species that immediately exceed 50% of the total dominance measure for a vegetation stratum, plus any additional species comprising 20% or more of the total dominance measure for that stratum. As part of the vegetation criteria, species dominance is evaluated using the "50/20 rule."			
Growing season	portion of the year when soil temperatures at 19.7 in. below the soil surface are higher biologic zero (5 (C) (U.S. Department of Agriculture & Soil Conservation Service 1985). Tasse of determination this period can be approximated by the number of frost-free days Department of the Interior 1970).			
Hydric Soils	Hydric soils are defined as soils that are formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, July 13, 1994). Almost all hydric soils exhibit characteristic morphologies that are a result of repeated periods of saturation and/or inundation for more than a few days at a time. Saturation and inundation causes a depletion of oxygen in the soil when combined with anaerobic microbial activity in the soil. This anaerobiosis process results in characteristic morphologies such as the reduction, translocation, and/or the accumulation of iron. This process forms features in the soil that are called redoximorphic features that are particularly useful for identifying hydric soils.			
	The soil investigation criterion requires the use of a soil probe or a pit excavated to a 16-inch depth in order to investigate for hydric indicators. These indicators typically include, but are not limited to: • gleyed or low-chroma colors (redoximorphic features) • mottles (redoximorphic features) • listed on the local hydric soils list • listed on the national hydric soils list • concretions (redoximorphic features).			
Hydrophytic Species	Hydrophytic species, due to morphological, physiological, and/or reproductive adaptation(s), have the ability to grow, effectively compete, reproduce, and/or persist in anaerobic soil conditions.			



Term	Definition					
Hydrophytic Vegetation	In order for the vegetation to be considered hydrophytic (wet), the prevalent vegetation must consist of <i>macrophytes</i> that are typically adapted to areas having hydrologic and soil conditions unique to wetlands (e.g. must be <i>hyrdophytic species</i>). Prevalent vegetation is characterized by the dominant species comprising the plant community or communities. Dominant plant species are those that contribute more to the character of a plant community than other species present, as estimated or measured in terms of some ecological parameter or parameters. The two most commonly used estimates of dominance are basal area (trees) and percent areal cover (herbs). During a routine wetland delineation, the rapid test, <i>dominance test</i> , and <i>prevalence index</i> are predominantly used to determine if hydrophtic vegetation is present at a sample plot.					
Macrophytes	Macrophytes are any plant i	material tha	at can be seen without the aid of magnification.			
Plant Indicator Status Categories		he Nationa	efined by the USFWS National Wetlands Inventory and I Plant List Panel. The three facultative categories are Definition			
	Obligate Wetland Plants	(OBL)	Plants that occur almost always (estimated probability >99%) in wetlands under natural conditions, but which may also occur rarely (estimated probability <1%) in non-wetlands.			
	Facultative Wetland Plants	Plants that occur usually (estimated probability >67% to 99%) in wetlands, but also occur (estimated probability 1% to 33%) in non-wetlands.				
	Facultative Plants					
	Facultative Upland Plants	(FACU)	Plants that occur sometimes (estimated probability 1% to <33%) in wetlands, but occur more often (estimated probability >67% to 99%) in non-wetlands.			
	Obligate Upland Plants	(UPL)	Plants that occur rarely (estimated probability <1%) in wetlands, but occur almost always (estimate probability >99%) in non-wetlands under natural conditions.			
Prevalence Index	calculates a weighted average by assigning each indicator status category a numeric (OBL = 1, FACW = 2, FAC = 3, FACU = 4, and UPL = 5). Plant species are also weighted by abundance. It is a more comprehensive analysis of the hydrophytic status of a comm that one based on a few dominant species. \The prevalence index ranges from 1 to 5, prevalence index of 3.0 or less indicates that hydrophytic vegetation is present. If, usin dominance test, the recorded plant species does not exceed 50% of the total dominance prevalence index shall be used to determine if hydrophytic vegetation is present. Rapid Test for hydrophytic vegetation without the need for intensive sampling. When, based on the sampling in the sampl					
Rapid Test for hydrophytic vegetation						



Term	Definition	
Routine wetland determination	A type of wetland determination in which office data and/or relatively simple, rapidly applied onsite methods are employed to determine whether or not an area is a wetland. Most wetland determinations are of this type, which usually does not require collection of quantitative data.	
Sample plot	An area of land used for measuring or observing existing conditions	
Transect	As used herein, a line on the ground along which observations are made at some interval	
Typically Adapted	The term "typically adapted" refers to a species being normally or commonly suited to a given set of environmental conditions, due to some morphological, physiological, or reproductive adaptation. Species that have a wetland indicator status of OBL, FACW, or FAC are considered to be typically adapted for life in anaerobic soil conditions.	
Under normal circumstances	As used in the definition of wetlands, this term refers to situations in which the vegetation has not been substantially altered by man's activities.	
Upland	As used herein, any area that does not qualify as a wetland because the associated hydrologic regime is not sufficiently wet to elicit development of vegetation, soils, and/or hydrologic characteristics associated with wetlands. Such areas occurring within floodplains are more appropriately termed non-wetlands.	
Wetlands	The Corps of Engineers and the EPA jointly define wetlands as those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Wetlands have the following general diagnostic environmental characteristics:	
	(1) Hydrophytic Vegetation(2) Hydric Soils(3) Wetland Hydrology	
	Except in unique situations defined in the 1987 Wetland Delineation Manual and appropriate Regional Supplement, evidence of a minimum of one positive wetland indicator from each parameter (hydrology, soil, and vegetation) must be found in order to make a positive wetland determination.	
Wetland boundary	The point on the ground at which a shift from wetlands to non-wetlands or aquatic habitats occurs. These boundaries usually follow contours.	
Wetland determination	The process or procedure by which an area is adjudged a wetland or non-wetland by the US Army Corps of Engineers.	

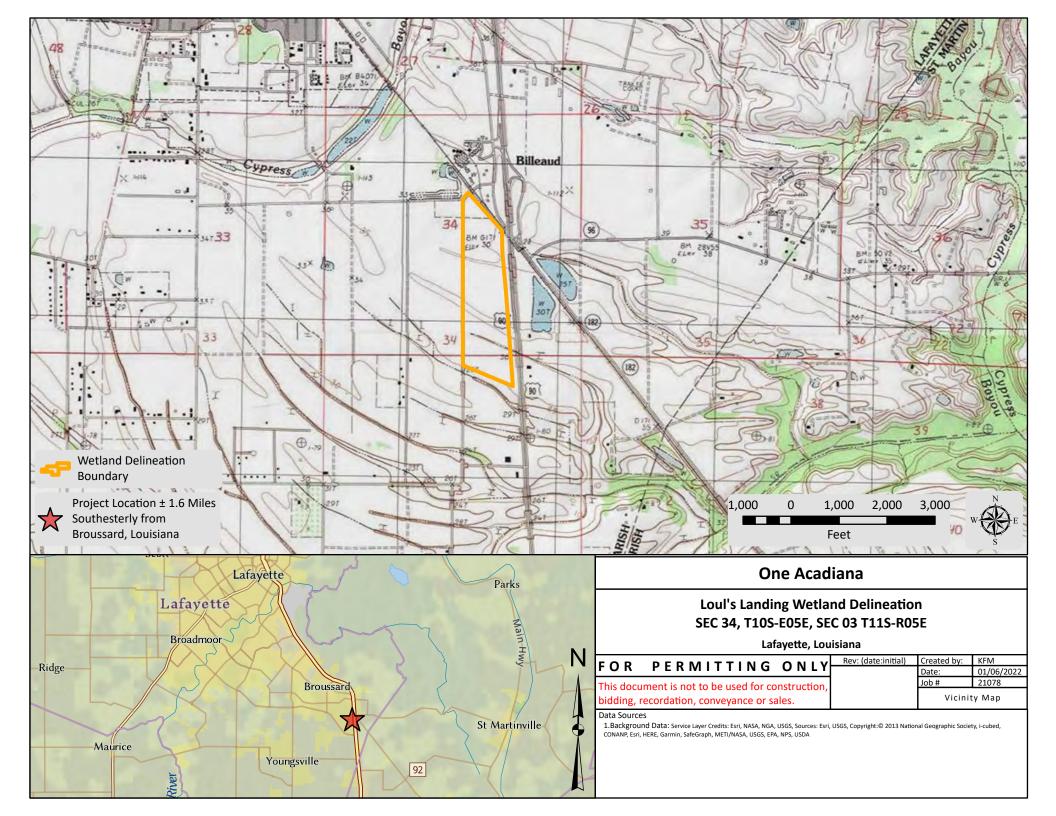


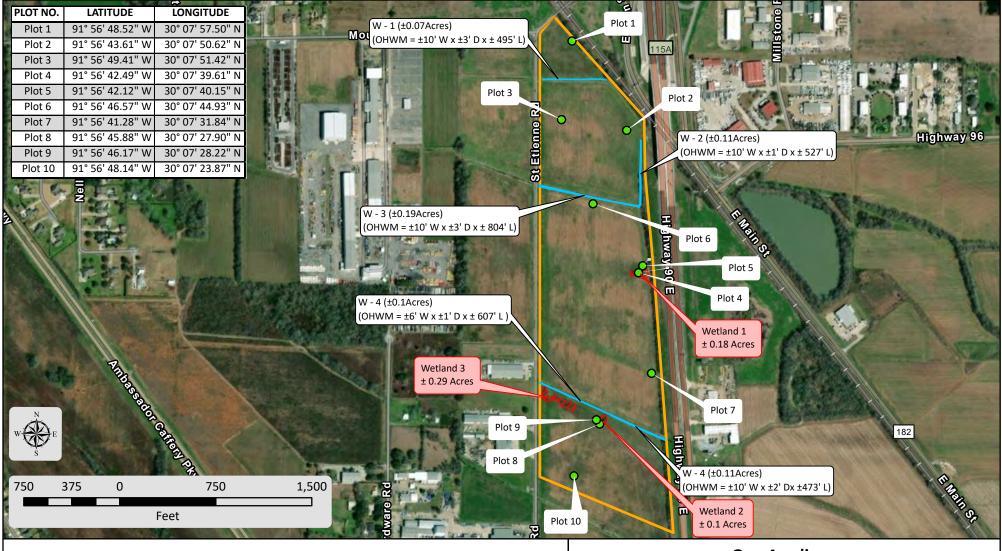
Term	Definition	Definition			
Wetland Hydrology	hydrologic characteristics of areas that are per than or equal to 6.6 feet) or have soils satur growing season of prevalent vegetation. Evi- generally found in areas where the presen	As defined by the 1987 COE Manual, the term "wetland hydrology" encompasses all hydrologic characteristics of areas that are periodically inundated (at mean water depths less than or equal to 6.6 feet) or have soils saturated to the surface at some time during the growing season of prevalent vegetation. Evident characteristics of wetland hydrology are generally found in areas where the presence of water has an overriding influence on characteristics of vegetation and soils due to anaerobic and reducing conditions.			
	Wetland hydrology indicators provide evidence that the Site currently has a wetland hydrologic regime. They may not provide an abundance of information about long-term wetness conditions on a given site; however, when coupled with the presence of hydrophytic vegetation and hydric soils, hydrology indicators provide evidence of long-term as well as short-term wetland conditions. In order to meet the hydrology criteria of a wetland, a sample location must meet one primary indicator or two secondary indicators.				
	Primary Indicators include:	Secondary Indicators include:			
	Surface Water (A1)	Surface Soil Cracks (B6)			
	High Water Table (A2)	Sparsely Vegetated Concave Surface			
	Saturation (A3)	(B8)			
	Water Marks (B1)	Drainage Patterns (B10)			
	Sediment Deposits (B2)	Moss Trim Lines (B16)			
	Drift Deposits (B3)	Dry-Season Water Table (C2)			
	Algal Mat or Crust (B4)	Crayfish Burrows (C8)			
	Iron Deposits (B5)	Saturation Visible on Aerial Imagery			
	Inundation visible on Aerial Imagery (B7)	(C9)			
	Water-Stained Leaves (B9)	Geomorphic Position (D2)			
	Aquatic Fauna (B13)	Shallow Aquitard (D3)			
	Marl Deposits (B15) (LRR U)	FAC-Neutral Test (D5)			
	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)				



APPENDIX A – MAPS

Routine Wetland Delineation Appendices







Non-Wetland Water



Wetland Delineation Plot



Wetlands



Wetland Delineation Boundary (±71.52 Acres)

One Acadiana

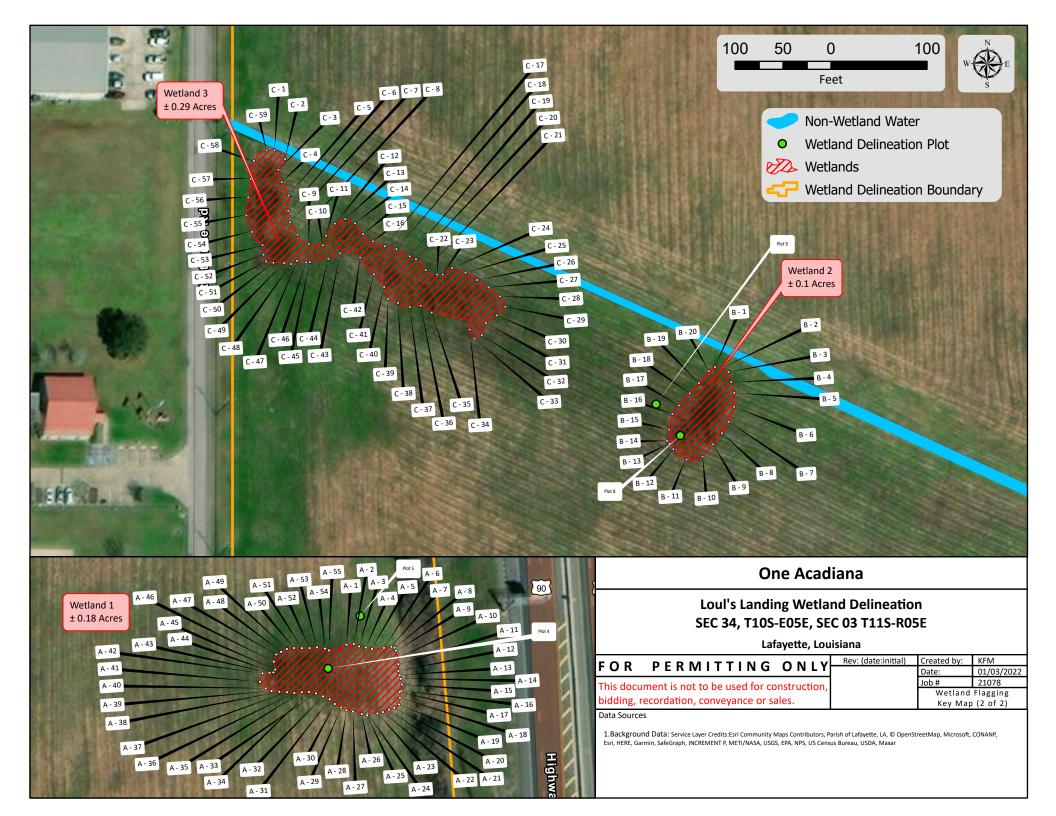
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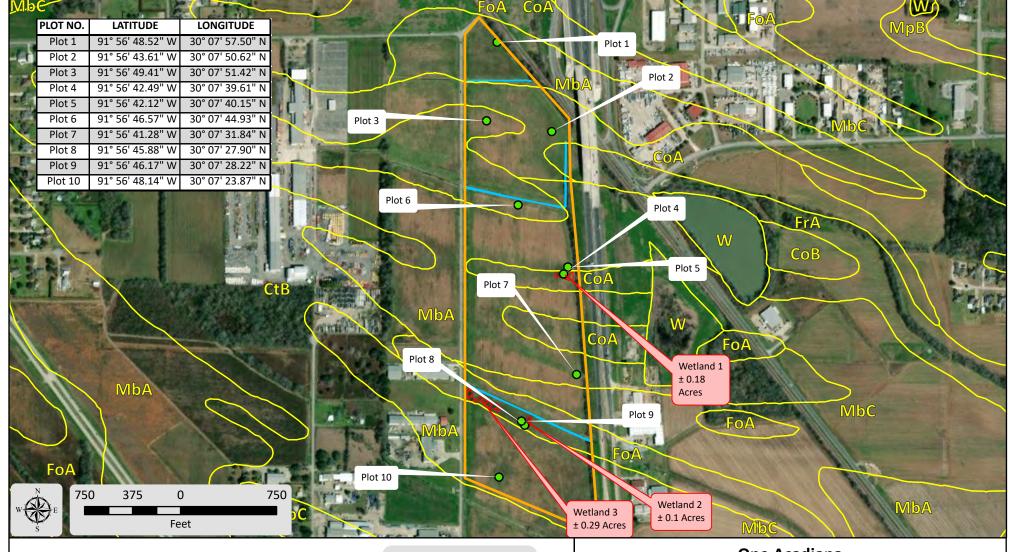
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Data Sources

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Soil Symbol, Soil Name, Hydric Soil %

CoA, Coteau silt loam, 0 to 1 percent slopes,8 %

CoB, Coteau silt loam, 1 to 3 percent slopes, 10 %

CtB, Coteau-Frost complex, gently undulating,35 %

FoA, Frost silt loam, 0 to 1 percent slopes,90 %

FrA, Frost silt loam, 0 to 1 percent slopes, occasionally flooded,90 %

MbA, Memphis silt loam, 0 to 1 percent slopes, 5 %

MbC, Memphis silt loam, 1 to 5 percent slopes, 0 %

MpB, Memphis-Frost complex, gently undulating, 35%

W, Water, 0% #

Wetland Delineation Plot Lafayette Parish Soils Wetlands

Wetland Delineation

Boundary

Non-Wetland Water

One Acadiana

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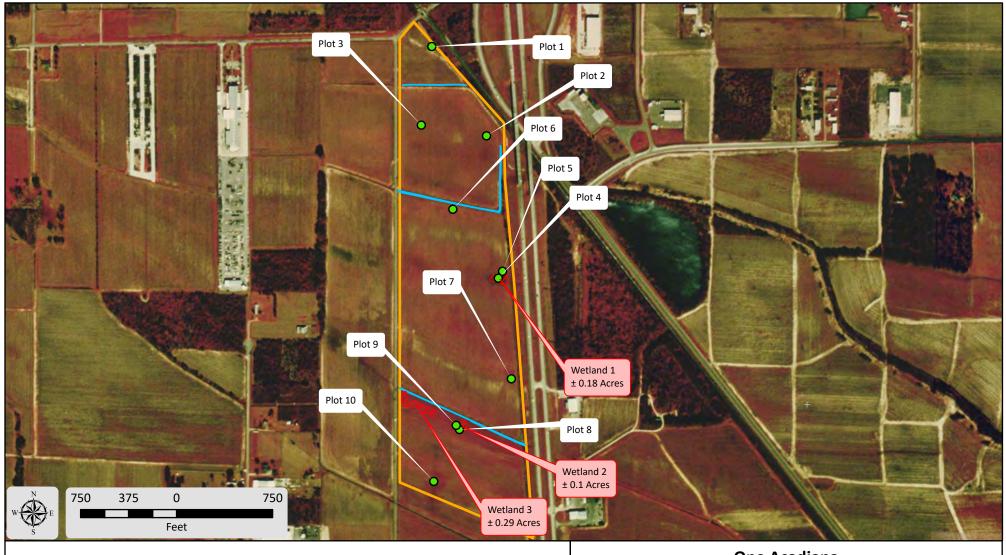
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Map

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Wetland Delineation Boundary





Non-Wetland Water

Wetland Delineation Boundary

One Acadiana

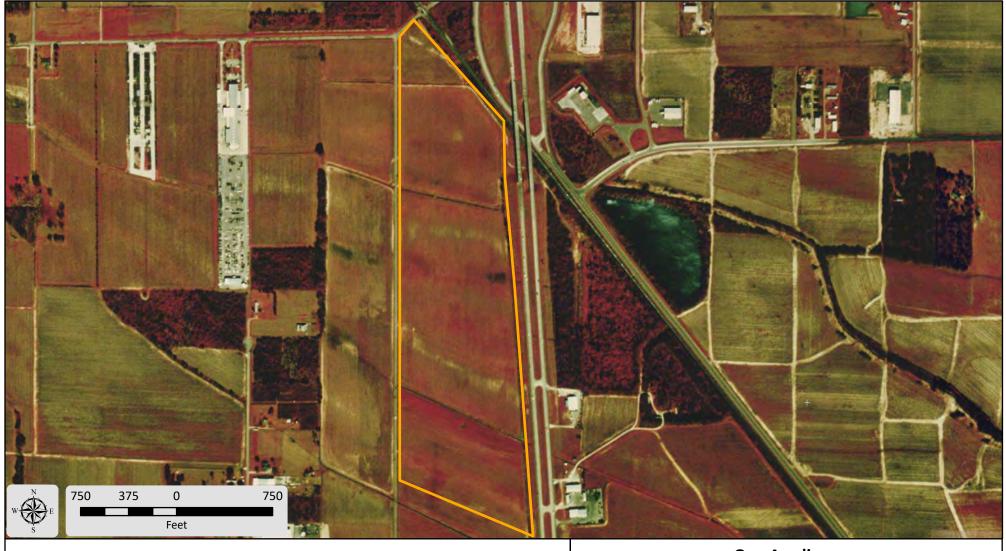
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Wetland Delineation Boundary

Image

Red: Band_1
Green: Band_2
Blue: Band_3

One Acadiana

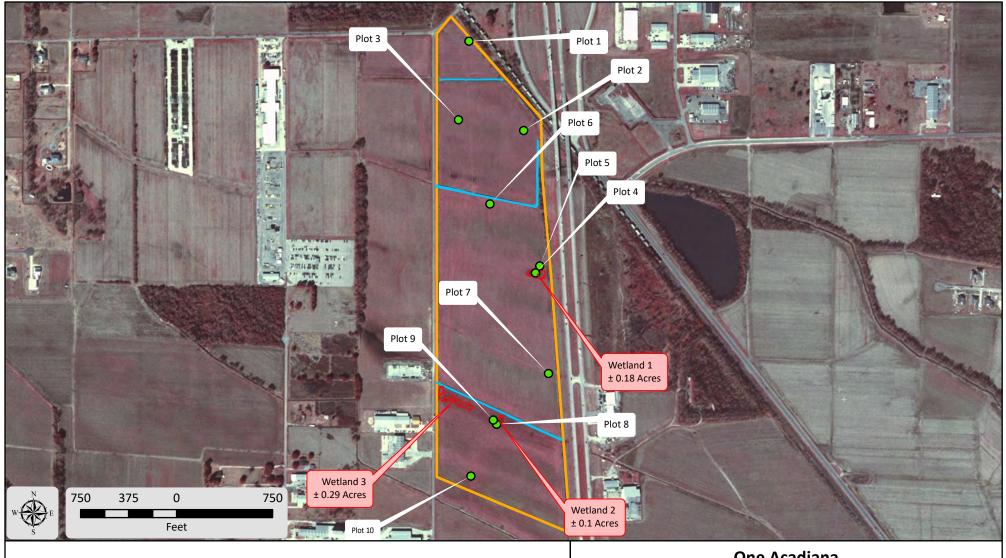
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Wetland Delineation Plot

Non-Wetland Water

Wetland Delineation Boundary

Wetlands

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Map

Data Sources

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Wetland Delineation Boundary

Image

Red: Band_1 Green: Band_2 Blue: Band_3

One Acadiana

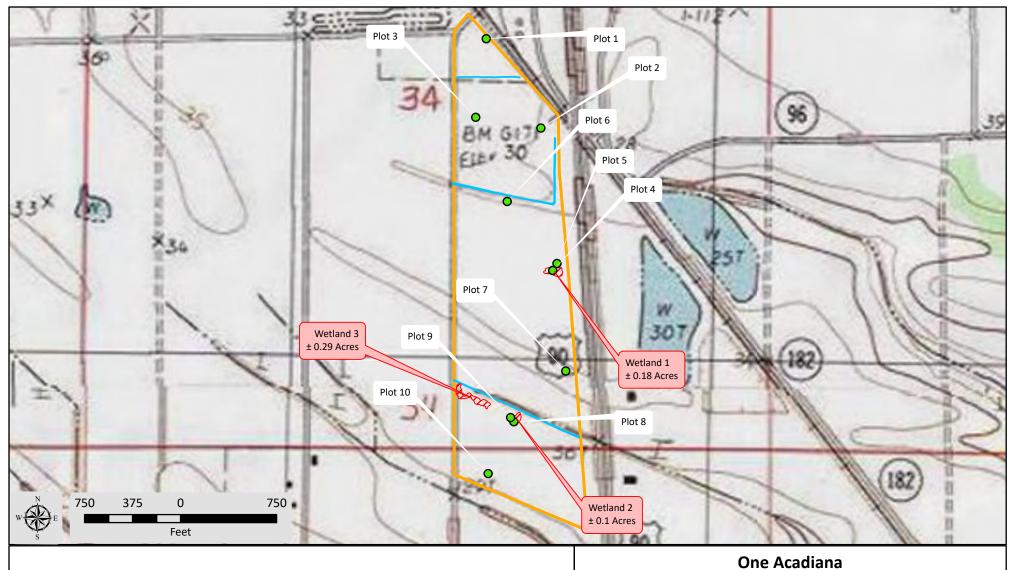
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Wetland Delineation Plot



Non-Wetland Water

Wetland Delineation Boundary

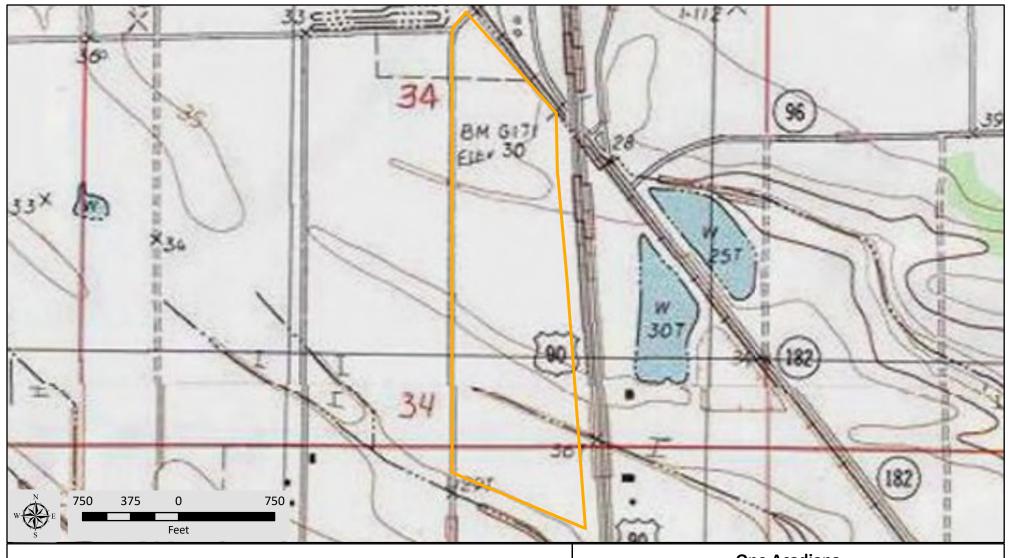
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Wetland Delineation Boundary

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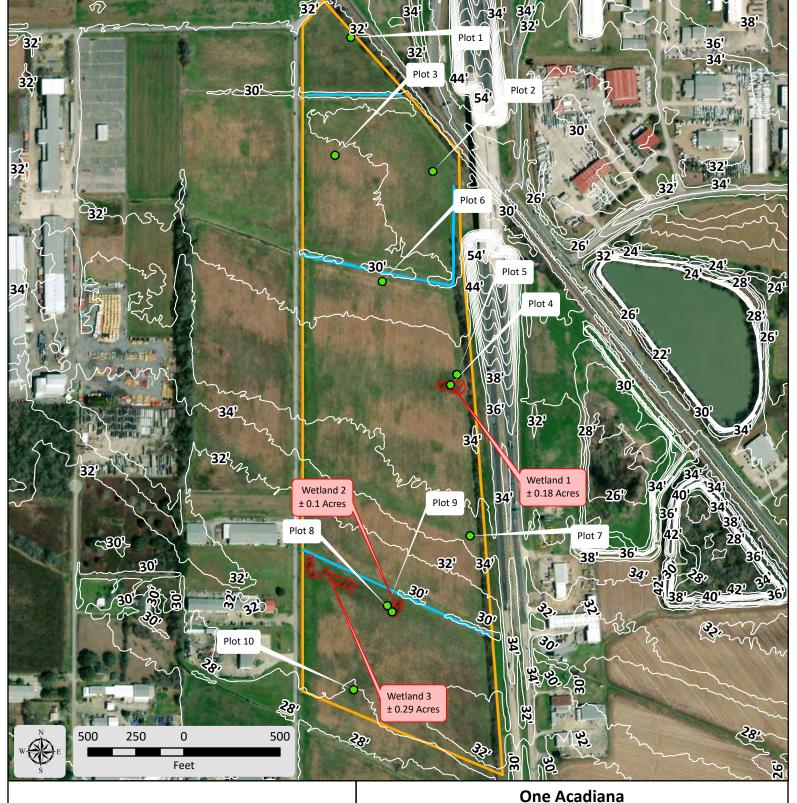
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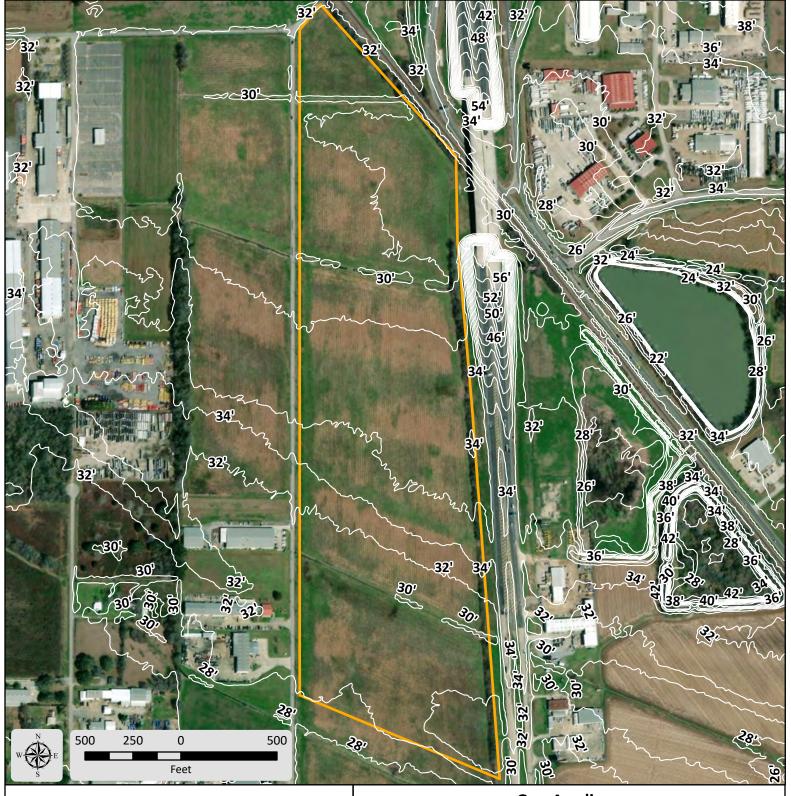
2' Contour Elevation Contours

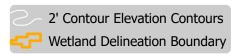
Wetland Delineation Boundary

Non-Wetland Water

Wetlands

1.Background Data: Service Layer Credits:Esri Community Maps Contributors, Parish of Lafayette, LA, @ OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Maxar





One Acadiana

Loul's Landing Wetland Delineation SEC 34, T10S-E05E, SEC 03 T11S-R05E

Lafayette, Louisiana

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Data Sources

1.Background Data: Service Layer Credits:Esri Community Maps Contributors, Parish of Lafayette, LA, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Maxar



APPENDIX B – PHOTOGRAPHS

Routine Wetland Delineation Appendices



Photo 1: Sample Plot 1



Photo 2: Sample Plot 1, facing north



Photo 3: Sample Plot 1, facing south



Photo 4: Sample Plot 2



Photo 5: Sample Plot 2, facing north



Photo 6: Sample Plot 2, facing east



Photo 7: Sample Plot 3



Photo 8: Sample Plot 3, facing south



Photo 9: Sample Plot 3, facing west



Photo 10: Sample Plot 4



Photo 11: Sample Plot 4, facing south



Photo 12: Sample Plot 4, facing east



Photo 13: Sample Plot 5



Photo 14: Sample Plot 5, facing north



Photo 15: Sample Plot 5, facing east



Photo 16: Sample Plot 6



Photo 17: Sample Plot 6, facing north



Photo 18: Sample Plot 6, facing west



Photo 19: Sample Plot 7



Photo 20: Sample Plot 7, facing south



Photo 21: Sample Plot 7, facing west



Photo 22: Sample Plot 8



Photo 23: Sample Plot 8, facing north



Photo 24: Sample Plot 8, facing east



Photo 25: Sample Plot 9



Photo 26: Sample Plot 9, facing north



Photo 27: Sample Plot 9, facing east



Photo 28: Sample Plot 10



Photo 29: Sample Plot 10, facing north



Photo 30: Sample Plot 10, facing west



APPENDIX C - DATA SHEETS

Routine Wetland Delineation Appendices

Project/Site: Loul's Landing	City/County: Broussard	Sampling Date: 23-Dec-21
Applicant/Owner: One Acadiana	State: LA	Sampling Point: 1
Investigator(s): Ryne Menard & Kenny Montet	Section, Township, Range: S 3	4 T 10S R 05E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none	e): _none
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 57.50" N Long.:	91° 56' 48.52" W Datum: NAD83
Soil Map Unit Name: MbA, Memphis silt loam, 0 to 1 percent slopes, 5	, 0	NWI classification:
Are climatic/hydrologic conditions on the site typical for this time of ye	r? Yes • No O (If	no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significan	y disturbed? Are "Normal Cir	cumstances" present? Yes No
		lain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	(,,	•
Hydrophytic Vegetation Present? Yes ○ No ●		
Hydric Soil Present? Yes No No	Is the Sampled Area	s ○ No ●
Wetland Hydrology Present? Yes ○ No •	within a Wetland?	S UNO S
Remarks:		
remand.		
HYDROLOGY		
Wetland Hydrology Indicators:		and on Tadioskova (seisian va of 2 vaccinad)
Primary Indicators (minimum of one required; check all that apply)		econdary Indicators (minimum of 2 required) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	3)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B2)	_	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim Lines (B16)
	eres along Living Roots (C3)	Dry Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	· · · · · =	Crayfish Burrows (C8)
	tion in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfac	` '	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	` ′	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth (inches):		
Water Table Present? Yes No Depth (inches):		
	Wetland Hydrolo	ogy Present? Yes O No 💿
(includes capillary fringe) Yes V No Depth (inches):		
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available	le:
Remarks:		

			ominant pecies?		Sampling Point: 1
	Absolute		el.Strat. I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover		Cover	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC:
2	0		0.0%		
3	0		0.0%		Total Number of Dominant Species Across All Strata: 3 (B)
l			0.0%		
)	_		0.0%		Percent of dominant Species That Are OBL FACW or FAC: 0.0% (A/B)
5	0		0.0%		That Are OBL, FACW, or FAC: 0.0% (A/B)
·			0.0%		Prevalence Index worksheet:
3	0		0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= Tc	otal Cover		OBL species 0 x 1 = 0
Sapling or Sapling/Shrub Stratum (Plot size: _30'					FACW species 0 x 2 = 0
		П	0.0%		FAC species 20 x 3 = 60
		\Box	0.0%		FACU species $\frac{75}{}$ x 4 = $\frac{300}{}$
		\Box	0.0%		x 1 =
		П	0.0%		
		\Box	0.0%		Column Totals: 95 (A) 360 (B)
			0.0%		Prevalence Index = B/A = <u>3.789</u>
			0.0%		Hydrophytic Vegetation Indicators:
 3.			0.0%		
		<u>-</u>			1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	=	= Tc	otal Cover		2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')					3 - Prevalence Index is ≤3.0 ¹
	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
•			0.0%		
	0		0.0%		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·			0.0%		be present, unless disturbed or problematic.
i	0		0.0%		Definition of Vegetation Strata:
	0		0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= To	otal Cover		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')					(1.0 only of larger in diameter at broadt neight (BB11).
1. Vicia ludoviciana	25	V	26.3%	FACU	Sapling - Woody plants, excluding woody vines,
2. Rottboellia cochinchinensis	25	V		FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3. Rubus trivialis		V		FACU	than 6 m. (7.6 dm) BBH.
4. Rumex crispus				FAC	Sapling/Shrub - Woody plants, excluding vines, less
5. Trifolium repens		\Box		FACU	than 3 in. DBH and greater than 3.28 ft (1m) tall.
C. Lucadium innonieum		П		FAC	
7.		\Box	0.0%	,,,,	Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
8			0.0%		arr. samatory o to 20 it (1 to 0 iii) iii noight.
9			0.0%		Herb - All herbaceous (non-woody) plants, including
			0.0%		herbaceous vines, regardless of size, and woody
0 1			0.0%		plants, except woody vines, less than approximately 3 ft (1 m) in height.
2			0.0%		
		ַ 			Woody vine - All woody vines, regardless of height.
50% of Total Cover: 47.5 20% of Total Cover: 19	95 =	- 10	otal Cover		
Woody Vine Stratum (Plot size: 30')					
			0.0%		
	0		0.0%		
	0		0.0%		
			0.0%		Understadio
j	0	Ш	0.0%		Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= To	otal Cover		Present? Yes No No
					<u> </u>
Remarks: (If observed, list morphological adaptations below).					
*Indicator suffix = National status or professional decision assigned because	Regional status	not o	defined by FWS	5.	

Profile Descri	iption: (Describe to	the depth ne	eded to document	the indic	ator or co	onfirm the	absence of indicators.)	
Depth	Matrix		Red	ox Featu	res		_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type 1	Loc2	Texture	Remarks
0-20	10YR 3/2	95	10YR 3/6	5	С	М	Silt Loam	
								-
						-	-	
¹ Type: C=Cond	entration. D=Depletion	n. RM=Reduce	ed Matrix, CS=Covered	d or Coate	d Sand Gr	ains ² Loca	ition: PL=Pore Lining. M=M	atrix
Hydric Soil I	ndicators:						Indicators for Proble	ematic Hydric Soils ³ :
Histosol (A	A1)		Polyvalue Belo	w Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9) (l	•
Histic Epip	edon (A2)		Thin Dark Surf				2 cm Muck (A10)	
Black Histi			Loamy Mucky				_	18) (outside MLRA 150A,B)
	Sulfide (A4)		Loamy Gleyed					
	_ayers (A5)		Depleted Matri		-)			in Soils (F19) (LRR P, S, T)
	odies (A6) (LRR P, T, U	1)	✓ Redox Dark Su				_	Loamy Soils (F20) (MLRA 153B)
	ky Mineral (A7) (LRR P			. ,			Red Parent Materi	` '
	ence (A8) (LRR U)	, 1, 0)	Depleted Dark		-7)		☐ Very Shallow Dark	
			Redox Depress				Other (Explain in I	Remarks)
	k (A9) (LRR P, T)	14)	☐ Marl (F10) (LR					
	Below Dark Surface (A1	11)	Depleted Ochri					
	Surface (A12)		☐ Iron-Manganes					
	rie Redox (A16) (MLRA		Umbric Surface	e (F13) (LF	RR P, T, U)		
	ck Mineral (S1) (LRR O	, S)	Delta Ochric (F	17) (MLRA	A 151)		3, 4:	of hydrophytic vegetation and
Sandy Gle	yed Matrix (S4)		Reduced Vertice	(F18) (M	LRA 150A,	150B)	vetland h	or nydropnytic vegetation and ydrology must be present,
Sandy Red	lox (S5)		Piedmont Floo	dplain Soil:	s (F19) (M	LRA 149A)		disturbed or problematic.
Stripped M	latrix (S6)		Anomalous Bri	ght Loamy	Soils (F20) (MLRA 14	9A, 153C, 153D)	
☐ Dark Surfa	ace (S7) (LRR P, S, T, L	J)						
	yer (if observed):							
Туре:				_			Hydric Soil Present?	Yes ● No ○
Depth (inch	nes):			_			nyunc son Presents	Tes S NO C
Remarks:								

Project/Site: Loul's Landing	City/County: Brous	sard	Sampling Date:	23-Dec-21
Applicant/Owner: One Acadiana	State:	LA Samp	ling Point: 2	
Investigator(s): Ryne Menard & Kenny Montet	Section, Township	, Range: S 34	T 10S R 0	5E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave	e, convex, none): con	cave Slope:	0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 50.62" N	Long.: 91° 56	 ' 43.61" W Dat	:um: NAD83
Soil Map Unit Name: CoA, Coteau silt loam, 0 to 1 percent slopes,8 %	<u> </u>		classification:	
Are climatic/hydrologic conditions on the site typical for this time of yea	nr? Yes ⊙		lain in Remarks.)	
	··· •	re "Normal Circumstar	6	No O
			answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing sar	mpling point loc	ations, transects,	important features	s, etc.
Hydrophytic Vegetation Present? Yes No No				
Hydric Soil Present? Yes No	Is the Samp	oled Area Yes O No		
Wetland Hydrology Present? Yes No •	within a We	tland? Yes $igcup$ No	5 •	
Remarks:				
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:			Indicators (minimum of 2 re	quired)
Primary Indicators (minimum of one required; check all that apply)	<u></u>		e Soil Cracks (B6)	- (DO)
☐ Surface Water (A1) ☐ Aquatic Fauna (B1: ☐ High Water Table (A2) ☐ Marl Deposits (B15	•		ly Vegetated Concave Surfac	e (B8)
Saturation (A3) Hydrogen Sulfide C			ge Patterns (B10)	
	odor (CI) eres along Living Roots		rim Lines (B16)	
			ason Water Table (C2)	
Sediment Deposits (B2) Presence of Reduction Property (B2) Presence of Reduction Property (B2)	` ,		h Burrows (C8)	(20)
	tion in Tilled Soils (C6)		tion Visible on Aerial Imagery	y (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	• •		orphic Position (D2)	
☐ Iron Deposits (B5) ☐ Other (Explain in R	Remarks)		v Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)			eutral Test (D5)	
☐ Water-Stained Leaves (B9)		Sphagr	num moss (D8) (LRR T, U)	
Field Observations:				
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes No Depth (inches):				
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	W	etland Hydrology Pres	ent? Yes No	•
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	ns previous inspection	ons) if available:		
Describe Need Data (sa cam gaage, montoning wen, acrail prioris	o, previous inspectic	mo), ii availablei		
Remarks:				

			ominant		Sampling Point: 2
	Absolute		pecies? el.Strat. 1	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover		Cover	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: (A)
2			0.0%		Total Number of Dominant
3		\bigsqcup	0.0%		Species Across All Strata:
4		\sqsubseteq .	0.0%		
5		Ц.	0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6	0	\sqsubseteq	0.0%		That Are ODL, I ACW, OF I AC.
7	0	Ц.	0.0%		Prevalence Index worksheet:
8		Ш.	0.0%		Total % Cover of: Multiply by:
50% of Total Cover:0 20% of Total Cover:0	=	= To	otal Cover		OBL species x 1 =
Sapling or Sapling/Shrub Stratum (Plot size: 30')				FACW species
1	0		0.0%		FAC species <u>10</u> x 3 = <u>30</u>
2			0.0%		FACU species $70 \times 4 = 280$
3	0		0.0%		UPL species $\frac{35}{}$ x 5 = $\frac{175}{}$
4	0		0.0%		Column Totals:115 (A)485 (B)
5			0.0%		
3	0		0.0%		Prevalence Index = B/A = 4.217
7			0.0%		Hydrophytic Vegetation Indicators:
3	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= To	otal Cover		2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')					3 - Prevalence Index is ≤3.0 ¹
4	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
1 2		\Box	0.0%		Problematic nydrophytic vegetation (Explain)
n	•	\Box	0.0%		¹ Indicators of hydric soil and wetland hydrology must
•		\Box	0.0%		be present, unless disturbed or problematic.
-			0.0%		Definition of Vegetation Strata:
o 6.			0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 0 20% of Total Cover: 0		– Тс	otal Cover		approximately 20 ft (6 m) or more in height and 3 in.
			Mai Cove.	I	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')		_		I	Sapling - Woody plants, excluding woody vines,
1 . Rottboellia cochinchinensis		✓.		FACU	approximately 20 ft (6 m) or more in height and less
2 Geranium carolinianum		✓.		UPL	than 3 in. (7.6 cm) DBH.
3. Rumex crispus		<u></u>		FAC	
4. Rubus trivialis		<u></u>		FACU	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
5. Lamium amplexicaule		Ц.		UPL	Than one portain growing than one in the control of
6. Vicia Iudoviciana		Ц.		FACU	Shrub - Woody plants, excluding woody vines,
7		Ц.	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8		Ц.	0.0%		Herb - All herbaceous (non-woody) plants, including
9		\sqcup	0.0%		herbaceous vines, regardless of size, and woody
10		Ц.	0.0%		plants, except woody vines, less than approximately
11		Ц.	0.0%		3 ft (1 m) in height.
12		\sqcup	0.0%		Manada vines regardless of height
50% of Total Cover:57.5 20% of Total Cover:23	115 =	= To	otal Cover		Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30')					
1	0		0.0%		
2.			0.0%		
3.	-		0.0%		
4.			0.0%		
5			0.0%		Hydrophytic
		- Tc	otal Cover		Present? Yes O No •
5		Ш. = То	otal Cover		Vegetation
*Indicator suffix = National status or professional decision assigned because R	Regional status	not c	defined by FW	S.	

Dominant

Profile Descr	iption: (Describe to	the depth ne	eded to document	the indic	ator or co	nfirm the	absence of indicators.)	
Depth	Matrix		Red	lox Featu	res		_	
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/2	95	10YR 3/6	5	С	М	Silt Loam	
							-	
¹ Type: C=Cond	centration. D=Depletion	n. RM=Reduce	d Matrix, CS=Covere	d or Coate	d Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=M	1atrix
Hydric Soil I	ndicators:		·				Indicators for Drobl	ematic Hydric Soils ³ :
Histosol (A			Polyvalue Belo	w Surface	(S8) (LRR	S T II)		
_ `	pedon (A2)		Thin Dark Surf				1 cm Muck (A9) (,
Black Histi						•	2 cm Muck (A10)	
	Sulfide (A4)		Loamy Mucky					18) (outside MLRA 150A,B)
			Loamy Gleyed		<u>()</u>			ain Soils (F19) (LRR P, S, T)
	Layers (A5)	`	Depleted Matri				Anomalous Bright	Loamy Soils (F20) (MLRA 153B)
	odies (A6) (LRR P, T, U	-	✓ Redox Dark Su	, ,			Red Parent Mater	ial (TF2)
	ky Mineral (A7) (LRR P,	T, U)	Depleted Dark	Surface (F	- 7)		Very Shallow Dark	Surface (TF12)
	sence (A8) (LRR U)		Redox Depress	sions (F8)			Other (Explain in	Remarks)
1 cm Mucl	k (A9) (LRR P, T)		Marl (F10) (LR	R U)				•
Depleted I	Below Dark Surface (A1	.1)	Depleted Ochr	ic (F11) (N	1LRA 151)			
☐ Thick Dark	k Surface (A12)		☐ Iron-Mangane	se Masses	(F12) (LRI	R O, P, T)		
Coast Prai	rie Redox (A16) (MLRA	150A)	Umbric Surface	e (F13) (LF	RR P, T, U)		
Sandy Mu	ck Mineral (S1) (LRR O	, S)	Delta Ochric (F				2	
☐ Sandy Gle	yed Matrix (S4)		Reduced Verti			150B)		of hydrophytic vegetation and
Sandy Red	dox (S5)		Piedmont Floo					nydrology must be present, disturbed or problematic.
Stripped N							9A, 153C, 153D)	distance of problemate.
	ace (S7) (LRR P, S, T, L	J)	/ incinicious bit	giic Louin,	30113 (1 20	, (I ILIU (I I	5,1, 1550, 1550)	
	200 (07) (2.111.7) 07 17 0	• •						
Restrictive La	ayer (if observed):							
Type:				_				
Depth (inch	nes):						Hydric Soil Present?	Yes No
Remarks:	,							
Kemarks.								

Project/Site: Loul's Landing	City/County: Brouss	ard	Sampling Da	te: 23-Dec-21
Applicant/Owner: One Acadiana	State:	LA S	Sampling Point: 3	
Investigator(s): Ryne Menard & Kenny Montet	Section, Township,	Range: S 34	T 10S	R 05E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave,	, convex, none):	concave Slope:	0.0 % / 0.0°
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 51.42" N	Long.: 91	1° 56' 49.41" W	Datum: NAD83
Soil Map Unit Name: CtB, Coteau-Frost complex, gently undulating,35			NWI classification:	
Are climatic/hydrologic conditions on the site typical for this time of year			, explain in Remarks.)	
		•		′es ● No ○
	•		any answers in Remarks	
SUMMARY OF FINDINGS - Attach site map showing sa			-	
Hydrophytic Vegetation Present? Yes ○ No ●				
Hydric Soil Present? Yes No No No No No No No N	Is the Sampl		○	
Wetland Hydrology Present?	within a Wet	tland? Yes	○ No •	
Remarks:				
HYDROLOGY Westland Mudaless Andicators				
Wetland Hydrology Indicators: Drimany Indicators (minimum of one required; check all that apply)			ndary Indicators (minimum o	of 2 required)
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Aquatic Fauna (B1)			ourface Soil Cracks (B6) Sparsely Vegetated Concave S	Curface (PQ)
High Water Table (A2) High Water Table (A2) Marl Deposits (B1	•		parsely vegetated Concave s Prainage Patterns (B10)	Surface (Do)
Saturation (A3) Hydrogen Sulfide	, ,		Namage Fatterns (B10) Noss Trim Lines (B16)	
	neres along Living Roots (Ory Season Water Table (C2)	
☐ Sediment Deposits (B2) ☐ Presence of Reduc	ced Iron (C4)	□ c	Crayfish Burrows (C8)	
☐ Drift Deposits (B3) ☐ Recent Iron Redu	ction in Tilled Soils (C6)	☐ Sa	aturation Visible on Aerial Im	nagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7)	G	Geomorphic Position (D2)	
☐ Iron Deposits (B5) ☐ Other (Explain in I	Remarks)		hallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)			AC-Neutral Test (D5)	
Water-Stained Leaves (B9)		L S _I	phagnum moss (D8) (LRR T,	, U)
Field Observations: Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes No Depth (inches):		etland Hydrology	Present? Yes	No 💿
Saturation Present? (includes capillary fringe) Yes No Depth (inches):		ciana riyarology	Tresent: Tes	
Describe Recorded Data (stream gauge, monitoring well, aerial photographics) Remarks:	os, previous inspection	ns), if available:		

			ninant ecies?		Sampling Point: 3
Tree Stratum (Plot size: 30')	Absolute % Cover	Rel.	.Strat. In	dicator Status	Dominance Test worksheet:
	% Cover	$\overline{}$	over 5	Matus	Number of Dominant Species That are ORL FACW or FAC:
2.			0.0%		That are OBL, FACW, or FAC: (A)
3.		\equiv	0.0%		Total Number of Dominant
l			0.0%		Species Across All Strata: 4 (B)
·			0.0%		Percent of dominant Species
). 		\equiv	0.0%		That Are OBL, FACW, or FAC: 50.0% (A/B)
7.		\equiv	0.0%		Prevalence Index worksheet:
 3.			0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 0 20% of Total Cover: 0			al Cover		OBL species _ 5 x 1 = _ 5
Sapling or Sapling/Shrub Stratum (Plot size: 30'					FACW species
	_		0.0%		FAC species 40 x 3 = 120
			0.0%		FACU species $82 \times 4 = 328$
			0.0%		UPL species $\frac{15}{2}$ x 5 = $\frac{75}{2}$
			0.0%		Column Totals: 142 (A) 528 (B)
			0.0%		100 mm
			0.0%		Prevalence Index = B/A = 3.718
			0.0%		Hydrophytic Vegetation Indicators:
3.	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= Tota	al Cover		2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')				ا	3 - Prevalence Index is ≤3.0 ¹
	0		0.0%	ا	
			0.0%		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
	•		0.0%		¹ Indicators of hydric soil and wetland hydrology must
			0.0%		be present, unless disturbed or problematic.
			0.0%		Definition of Vegetation Strata:
			0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 0 20% of Total Cover: 0			al Cover		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')		_			Sanling Woody plants, evaluding woody vines
1. Rottboellia cochinchinensis			35.2% F	ACU	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2. Rubus trivialis				ACU	than 3 in. (7.6 cm) DBH.
3. Rumex crispus			10.6% F	AC	
A Pacasium dilatatum			10.60/ =		
4. Paspalum dilatatum	15			AC	Sapling/Shrub - Woody plants, excluding vines, less
5. Geranium carolinianum	1510	\neg		AC IPL	than 3 in. DBH and greater than 3.28 ft (1m) tall.
5. Geranium carolinianum 6. Cirsium horridulum	10		7.0% U	PL AC	than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines,
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve	10 10 5		7.0% U 7.0% F. 3.5% F.	PL AC ACU	than 3 in. DBH and greater than 3.28 ft (1m) tall.
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana	10 10 5 5		7.0% U 7.0% F 3.5% F 3.5% F	ACU ACU	than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris	10 10 5 5 5		7.0% U 7.0% F. 3.5% F. 3.5% C	ACU ACU BBL	than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines,
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivaive 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata	10 10 5 5 5 5		7.0% U 7.0% F 3.5% F 3.5% F 3.5% O 3.5% U	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima	10 5 5 5 5 2		7.0% U 7.0% F. 3.5% F. 3.5% F. 3.5% O 3.5% U 1.4% F.	ACU ACU BBL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima 2.	10 10 5 5 5 5 2 0		7.0% U 7.0% F 3.5% F 3.5% F 3.5% O 3.5% U	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima 2. 50% of Total Cover: 71 20% of Total Cover: 28.4	10 10 5 5 5 5 2 0		7.0% U 7.0% F. 3.5% F. 3.5% F. 3.5% O 3.5% U 1.4% F.	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima 2. 50% of Total Cover: 71 20% of Total Cover: 28.4	10 10 5 5 5 5 2 0 142 =		7.0% U 7.0% F 3.5% F 3.5% O 3.5% U 1.4% F 0.0% al Cover	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima 2. 50% of Total Cover: 71 20% of Total Cover: 28.4 Woody Vine Stratum (Plot size: 30')	10 10 5 5 5 5 2 0 142 =		7.0% U 7.0% F. 3.5% F. 3.5% Q 3.5% U 1.4% F. 0.0% al Cover	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima 2. 50% of Total Cover: 71 20% of Total Cover: 28.4	10 10 5 5 5 5 5 2 0 142 =		7.0% U 7.0% F. 3.5% F. 3.5% C 3.5% U 1.4% F. 0.0% al Cover	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima 2. 50% of Total Cover: 71 20% of Total Cover: 28.4 Woody Vine Stratum (Plot size: 30')	10 10 5 5 5 5 2 0 142 =		7.0% U 7.0% F. 3.5% F. 3.5% O 3.5% U 1.4% F. 0.0% al Cover 0.0% 0.0%	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima 2. 50% of Total Cover: 71 20% of Total Cover: 28.4 Woody Vine Stratum (Plot size: 30')	10 10 5 5 5 5 2 0 142 =		7.0% U 7.0% F. 3.5% F. 3.5% O 3.5% U 1.4% F. 0.0% al Cover 0.0% 0.0% 0.0%	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height.
5. Geranium carolinianum 6. Cirsium horridulum 7. Nothoscordum bivalve 8. Vicia ludoviciana 9. Eleocharis palustris 0. Verbena litoralis var. brevibracteata 1. Solidago altissima 2.	10 10 5 5 5 5 5 2 0 142 =		7.0% U 7.0% F. 3.5% F. 3.5% O 3.5% U 1.4% F. 0.0% al Cover 0.0% 0.0%	ACU ACU ACU BL	than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Profile Descr	iption: (Describe to	the depth ne	eded to document	the indic	ator or co	nfirm the	absence of indicators.)	
Depth	Matrix		Rec	lox Featu	ires		_	
(inches)	Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
0-20	10YR 3/2	95	10YR 3/6	5	С	,m	Silt Loam	
				-	-			
				-		-	-	
¹ Type: C=Cond	centration. D=Depletion	n. RM=Reduce	d Matrix, CS=Covere	d or Coate	d Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=M	
Hydric Soil I	ndicators:		·				Indicators for Probl	ematic Hydric Soils ³ :
Histosol (A			Polyvalue Belo	w Surface	(S8) (LRR	S T II)		
	pedon (A2)		Thin Dark Surf				1 cm Muck (A9) (•
Black Histi			Loamy Mucky			•	2 cm Muck (A10)	
	Sulfide (A4)							18) (outside MLRA 150A,B)
	Layers (A5)		Loamy Gleyed		<u>2)</u>			ain Soils (F19) (LRR P, S, T)
		Λ.	Depleted Matr					Loamy Soils (F20) (MLRA 153B)
_	odies (A6) (LRR P, T, U	-	✓ Redox Dark Su	` '			Red Parent Mater	ial (TF2)
	ky Mineral (A7) (LRR P,	1, 0)	Depleted Dark		F7)		Very Shallow Dark	Surface (TF12)
	sence (A8) (LRR U)		Redox Depres				Other (Explain in	Remarks)
	k (A9) (LRR P, T)		Marl (F10) (LR	-				
	Below Dark Surface (A1	.1)	Depleted Ochr	ic (F11) (N	4LRA 151)			
Thick Dark	k Surface (A12)		☐ Iron-Mangane	se Masses	(F12) (LRF	R O, P, T)		
Coast Prai	rie Redox (A16) (MLRA	150A)	Umbric Surfac	e (F13) (LI	RR P, T, U))		
Sandy Mu	ck Mineral (S1) (LRR O	, S)	Delta Ochric (I	=17) (MLR	A 151)		3	
Sandy Gle	yed Matrix (S4)		Reduced Verti	c (F18) (M	LRA 150A,	150B)		of hydrophytic vegetation and nydrology must be present,
Sandy Red	dox (S5)		Piedmont Floo	dplain Soil	s (F19) (M	LRA 149A)		disturbed or problematic.
Stripped M	1atrix (S6)		Anomalous Bri	ght Loamy	/ Soils (F20) (MLRA 14	9A, 153C, 153D)	
☐ Dark Surfa	ace (S7) (LRR P, S, T, L	J)						
Restrictive La	ayer (if observed):							
Туре:				_			Hydric Soil Present?	Yes No
Depth (inch	nes):			_			nyuric Son Present?	res 😌 No 🔾
Remarks:								

Project/Site: Loul's Landing	City/County: Brous	sard	Sampling D	23-Dec-21
Applicant/Owner: One Acadiana	State	: LA	Sampling Point: 4	
Investigator(s): Ryne Menard & Kenny Montet	Section, Township	, Range: S 34	T 10S	R 05E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave	e, convex, none):	concave Slope:	0.0 % / 0.0°
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 39.61" N	Long.: 9	91° 56' 42.49" W	Datum: NAD83
Soil Map Unit Name: CoA, Coteau silt loam, 0 to 1 percent slopes,8 %)		NWI classification:	-
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes •	No O (If n	o, explain in Remarks.)	
Are Vegetation , Soil , or Hydrology significan	tly disturbed?	\re "Normal Circu	ımstances" present?	Yes No
Are Vegetation , Soil , or Hydrology naturally			in any answers in Remar	ke \
SUMMARY OF FINDINGS - Attach site map showing sa	`	, ,	•	,
Hydrophytic Vegetation Present? Yes No	To the Comm	mlad Awar		
Hydric Soil Present? Yes No	Is the Sam	Voc	● No ○	
Wetland Hydrology Present? Yes No	within a We	etland?	C 140 C	
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:		Seco	ondary Indicators (minimum	of 2 required)
Primary Indicators (minimum of one required; check all that apply)			Surface Soil Cracks (B6)	
Surface Water (A1)	•		Sparsely Vegetated Concave	: Surface (B8)
✓ Saturation (A3) Hydrogen Sulfide			Drainage Patterns (B10) Moss Trim Lines (B16)	
	heres along Living Roots		Dry Season Water Table (C2	יו
Sediment Deposits (B2) Presence of Redu			Crayfish Burrows (C8)	.,
	uction in Tilled Soils (C6)		Saturation Visible on Aerial I	Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	re (C7)		Geomorphic Position (D2)	5 , 1 ,
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		F	FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR	T, U)
Field Observations:				
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes No Depth (inches):	88		y Present? Yes •	N
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	0 w	etland Hydrology	/ Present? Yes 🔍	No O
Describe Recorded Data (stream gauge, monitoring well, aerial photographics)	os, previous inspection	ons), if available:		
Remarks:				

		Dominant Species?		Sampling Point: 4
		_ Species? _ Rel.Strat.		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover		Status	Number of Dominant Species
		0.0%		That are OBL, FACW, or FAC:
				Total Number of Dominant
· ,	-			Species Across All Strata: 2 (B)
·				
	-			Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
	0	0.0%		That Are Obl., FACW, OF FAC.
•	0	0.0%		Prevalence Index worksheet:
	0	0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= Total Cover		OBL species <u>65</u> x 1 = <u>65</u>
Sapling or Sapling/Shrub Stratum (Plot size: 30')			FACW species <u>0</u> x 2 = <u>0</u>
	0	0.0%		FAC species $0 \times 3 = 0$
	0	0.0%		FACU species 45 x 4 = 180
		0.0%		UPL species $\frac{5}{}$ x 5 = $\frac{25}{}$
	_	0.0%		Column Totals: 115 (A) 270 (B)
		0.0%		Column locals: 113 (A) 270
		0.0%		Prevalence Index = B/A = 2.348
		0.0%		Hydrophytic Vegetation Indicators:
		0.0%		
				1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover:0 20% of Total Cover:0	=	= Total Cover	-	2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')				✓ 3 - Prevalence Index is ≤3.0 ¹
	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
	0	0.0%		
	0	0.0%		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0	0.0%		be present, unless disturbed or problematic.
	0	0.0%		Definition of Vegetation Strata:
	0	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= Total Cover	•	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')				
1. Rottboellia cochinchinensis	45	✓ 39.1%	FACU	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2. Eleocharis parvula	25	21.7%	OBL	than 3 in. (7.6 cm) DBH.
3. Eleocharis palustris	20	17.4%	OBL	
4 Alternanthera philoxeroides	20	17.4%	OBL	Sapling/Shrub - Woody plants, excluding vines, less
5 Verbena litoralis var. brevibracteata		4.3%	UPL	than 3 in. DBH and greater than 3.28 ft (1m) tall.
6		0.0%		
7		0.0%		Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
8		0.0%		approximately 0 to 20 ft (1 to 0 fill) in height.
9		0.0%		Herb - All herbaceous (non-woody) plants, including
		0.0%		herbaceous vines, regardless of size, and woody
0				plants, except woody vines, less than approximately 3 ft (1 m) in height.
1		0.0%		
2		0.0%		Woody vine - All woody vines, regardless of height.
50% of Total Cover: 20% of Total Cover:23	115 =	= Total Cover	•	Troody vino 7 iii Woody vinos, rogardioco er noigini
Woody Vine Stratum (Plot size: 30')		_		
	0	0.0%		
	0	0.0%		
•	0	0.0%		
		0.0%		
				Hydrophytic
	0	0.0%		Vegetation
		= Total Cover		Vegetation Present? Yes ● No ○

Depth (inches) Matrix Redox Features Type 1 Loc² Texture Remarks 0-20 10YR 3/1 75 7.5YR 3/4 10 C M Silty Clay Loam 10YR 3/6 15 C M Silty Clay Loam	
0-20 10YR 3/1 75 7.5YR 3/4 10 C M Silty Clay Loam	
10YR 3/6 15 C M Silty Clay Loam	
Trues C. Consentration D. Doubtion DM. Reduced Matrix: CC. Consend on Control Cond Control 21 continue. Dl. Doublining M. Matrix.	
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :	
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O)	
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S)	
□ Black Histic (A3) □ Loamy Mucky Mineral (F1) (LRR O) □ Reduced Vertic (F18) (outside MLRA 150A,B)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T)	
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 19)	53B)
☐ Organic Bodies (A6) (LRR P, T, U) ☐ Redox Dark Surface (F6) ☐ Red Parent Material (TF2)	
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12)	
Muck Presence (A8) (LRR U) Redox Depressions (F8) Other (Explain in Remarks)	
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)	
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151)	
☐ Thick Dark Surface (A12) ☐ Iron-Manganese Masses (F12) (LRR O, P, T)	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U)	
Sandy Muck Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B)	ıd
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) unless disturbed or problematic.	
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (if observed):	
Type: Depth (inches): Hydric Soil Present? Yes No	
Depth (inches):	
Remarks:	

Project/Site: Loul's Landing	City/County: Brou	ıssard	Sampling Da	ate: 23-Dec-21		
Applicant/Owner: One Acadiana	State	e: <u>LA</u>	Sampling Point: 5			
Investigator(s): Ryne Menard & Kenny Montet	Section, Township	p, Range: S 34	T 10S	R 05E		
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	e, convex, none):	concave Slope:	1.0 % / 0.6°		
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 40.15" N	Long.: 9	1° 56' 42.12" W	Datum: NAD83		
Soil Map Unit Name: MbA, Memphis silt loam, 0 to 1 percent slopes, 59			NWI classification:			
Are climatic/hydrologic conditions on the site typical for this time of yea			o, explain in Remarks.)			
		•		Yes ● No ○		
			n any answers in Remark			
SUMMARY OF FINDINGS - Attach site map showing sar			-			
Hydrophytic Vegetation Present? Yes ○ No ●						
Hydric Soil Present? Yes No	Is the Sam	•	O O			
Wetland Hydrology Present? Yes No •	within a W	etland? Yes	○ No ●			
Remarks:						
HYDROLOGY Westland Mydrology Indicators						
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)			ndary Indicators (minimum o	of 2 required)		
Surface Water (A1) Aquatic Fauna (B13	3)		Surface Soil Cracks (B6) Sparsely Vegetated Concave	Surface (RR)		
High Water Table (A2) Marl Deposits (B15	•		Orainage Patterns (B10)	Surface (Bo)		
Saturation (A3) Hydrogen Sulfide C	, ,		Moss Trim Lines (B16)			
☐ Water Marks (B1) ☐ Oxidized Rhizosphe	eres along Living Root	ng Living Roots (C3) Dry Season Water Table (C2)				
Sediment Deposits (B2)	ed Iron (C4)	(C4) Crayfish Burrows (C8)				
	ction in Tilled Soils (C6) 9	Saturation Visible on Aerial Ir	magery (C9)		
Algal Mat or Crust (B4) Thin Muck Surface	` '		Geomorphic Position (D2)			
☐ Iron Deposits (B5) ☐ Other (Explain in R☐ Inundation Visible on Aerial Imagery (B7)	Remarks)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)			FAC-Neutral Test (D5)	F 11)		
			Sphagnum moss (D8) (LRR T	, u)		
Field Observations: Surface Water Present? Yes No Depth (inches):						
	v	Wetland Hydrology	Present? Yes	No •		
(includes capillary fringe) Yes No Depth (inches):						
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspect	ions), ii available.				

			ominant		Sampling Point: 5
		Re	pecies? <u> </u>		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover		Cover	Status	Number of Dominant Species
1	0		0.0%		That are OBL, FACW, or FAC: 0 (A)
2			0.0%		Total Number of Dominant
3			0.0%		Species Across All Strata:3(B)
4			0.0%		
5			0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5			0.0%		That Are Obl., I Acw, or I Ac.
7		$\sqcup_{\underline{}}$	0.0%		Prevalence Index worksheet:
8		\sqcup_{-}	0.0%		Total % Cover of: Multiply by:
50% of Total Cover:0 20% of Total Cover:0	=	= To	tal Cover		OBL species x 1 =
Sapling or Sapling/Shrub Stratum (Plot size: 30')				FACW species
1	0		0.0%		FAC species <u>35</u> x 3 = <u>105</u>
2	0		0.0%		FACU species $50 \times 4 = 200$
3	0		0.0%		UPL species <u>55</u> x 5 = <u>275</u>
4			0.0%		
5			0.0%		10 (1)
6.			0.0%		Prevalence Index = B/A = 4.143
7			0.0%		Hydrophytic Vegetation Indicators:
3.	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= To	tal Cover		2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')	0		0.00/		3 - Prevalence Index is ≤3.0 ¹ Development: Management of Company (Company)
1			0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
2	•		0.0%		¹ Indicators of hydric soil and wetland hydrology must
3			0.0%		be present, unless disturbed or problematic.
4	_		0.0%		Definition of Verestation Strate:
5		<u> </u>	0.0%		Definition of Vegetation Strata:
6		Ц_	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover:0 20% of Total Cover:0	=	= To	tal Cover		(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')					
1 . Geranium carolinianum	30	V _	21.4%	UPL	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2. Rottboellia cochinchinensis	30	V	21.4%	FACU	than 3 in. (7.6 cm) DBH.
3. Aethusa cynapium	25	V	17.9%	UPL	, ,
4. Rumex crispus	20		14.3%	FAC	Sapling/Shrub - Woody plants, excluding vines, less
5. Paspalum dilatatum	15		10.7%	FAC	than 3 in. DBH and greater than 3.28 ft (1m) tall.
6. Rubus trivialis	10		7.1%	FACU	Shrub - Woody plants, excluding woody vines,
7. Vicia ludoviciana				FACU	approximately 3 to 20 ft (1 to 6 m) in height.
8			0.0%		
9			0.0%		Herb - All herbaceous (non-woody) plants, including
10			0.0%		herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
11			0.0%		3 ft (1 m) in height.
12.			0.0%		
50% of Total Cover: 70 20% of Total Cover: 28	140 =	= To	tal Cover		Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30')					
1		\square	0.0%		
2	-	Ц.	0.0%		
3		Ц.	0.0%		
4		님-	0.0%		Hydrophytic
5	0	$\square_{\underline{}}$	0.0%		Vegetation
50% of Total Cover:0 20% of Total Cover:0	0 =	= To	tal Cover		Present? Yes No •
Remarks: (If observed, list morphological adaptations below).					
YT-disabase seffic. National shakes a supersisted desiring a significant	Danianal status		J-6 J F1A/	_	
Indicator suffix = National status or professional decision assigned because	Regional Status	not a	letined by FWS).	

Profile Descri	ption: (Describe to	the depth nee	ded to document	the indica	tor or co	onfirm the a	absence of indicators.)	
Depth Matrix Redox Features								
(inches)	Color (moist)		Color (moist)	%	Type 1	Loc ²	Texture	Remarks
0-20	10YR 3/2	95	10YR 3/6	5	C	M	Silt Loam	
							-	
	entration. D=Depletion	n. RM=Reduced	Matrix, CS=Covered	d or Coate	d Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=Ma	trix
Hydric Soil I							Indicators for Proble	matic Hydric Soils ³ :
Histosol (A	N1)		Polyvalue Belo	w Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9) (LF	RR O)
Histic Epip	edon (A2)		Thin Dark Surf	ace (S9) (l	.RR S, T, I	U)	2 cm Muck (A10) (L	_RR S)
Black Histi	c (A3)		Loamy Mucky I	Mineral (F1	.) (LRR O))	Reduced Vertic (F18	8) (outside MLRA 150A,B)
Hydrogen	Sulfide (A4)		Loamy Gleyed	Matrix (F2)			n Soils (F19) (LRR P, S, T)
Stratified L	ayers (A5)		Depleted Matri	x (F3)				oamy Soils (F20) (MLRA 153B)
Organic Bo	odies (A6) (LRR P, T, U	J)	✓ Redox Dark Su	rface (F6)			Red Parent Material	, , , , , ,
5 cm Muck	ky Mineral (A7) (LRR P	, T, U)	Depleted Dark	Surface (F	7)		Very Shallow Dark S	` '
☐ Muck Pres	ence (A8) (LRR U)		Redox Depress				Other (Explain in Re	
1 cm Muck	(A9) (LRR P, T)		Marl (F10) (LR					endrs)
Depleted E	Below Dark Surface (A1	11)	Depleted Ochri		LRA 151)			
☐ Thick Dark	Surface (A12)		☐ Iron-Manganes					
Coast Prair	rie Redox (A16) (MLRA	150A)	Umbric Surface					
	ck Mineral (S1) (LRR O		Delta Ochric (F			,		
	yed Matrix (S4)	, -,	Reduced Vertic			150R)	³ Indicators of	hydrophytic vegetation and
Sandy Rec			Piedmont Floor					drology must be present, isturbed or problematic.
Stripped M								isturbed or problematic.
	ice (S7) (LRR P, S, T, l	D	Anomalous brig	giit Loainy	3011S (F20)) (MLKA 14:	9A, 153C, 153D)	
Dark Saine	ice (57) (ERR 1, 5, 1, 0	<i>5</i>)						
Restrictive La	yer (if observed):							
Type:				_				
Depth (inch	ies):			_			Hydric Soil Present?	Yes No
Remarks:								
remarks.								

Project/Site: Loul's Landing	City/County: Broussard Sampling Date: 23-Dec-21
Applicant/Owner: One Acadiana	State: LA Sampling Point: 6
Investigator(s): Ryne Menard & Kenny Montet	Section, Township, Range: S 34 T 10S R 05E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): CONCAVE Slope: 1.0 % / 0.6°
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 44.93" N Long.: 91° 56' 46.57" W Datum: NAD83
Soil Map Unit Name: CtB, Coteau-Frost complex, gently undulating,35	
Are climatic/hydrologic conditions on the site typical for this time of ye	
	ntly disturbed? Are "Normal Circumstances" present? Yes No
	Ale Horman encambrances present.
· - / - / · · · · · · · · · · · · · · ·	problematic? (If needed, explain any answers in Remarks.) ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes O No •	
	Is the Sampled Area
'	within a Wetland? Yes ○ No ●
Wetland Hydrology Present? Yes No Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B1)	
High Water Table (A2) Marl Deposits (B1	
□ Saturation (A3) □ Water Marks (B1) □ Oxidized Rhizosph □ Oxid	e Odor (C1)
Sediment Deposits (B2) Presence of Redu	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes O No O Depth (inches):	د
Water Table Present? Yes O No O Depth (inches):	
Saturation Present? (includes capillary frings) Yes No Depth (inches):	Wetland Hydrology Present? Yes No No
(includes capillary fillige)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	itos, previous inspections), ir available:
Remarks:	

Tree Stratum (Plot size: 30'	Absolute % Cover	R	pecies? _ el.Strat. Cover	Indicator Status	Dominance Test worksheet:
TIOC Dilutum	% Cover		Cover	Status	
				Status	Number of Dominant Species
	0		0.0%		That are OBL, FACW, or FAC: (A)
)	0		0.0%		Tabal Namban of Danishan
3	0		0.0%		Total Number of Dominant Species Across All Strata: 3 (B)
·			0.0%		
	0		0.0%		Percent of dominant Species That Are OBL FACW or FAC: 0.0% (A/B)
)	0_		0.0%		That Are OBL, FACW, or FAC: 0.0% (A/B)
, 	0		0.0%		Prevalence Index worksheet:
8	0		0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= To	otal Cover		OBL species 0 x 1 = 0
Sapling or Sapling/Shrub Stratum (Plot size: 30'					FACW species 0 x 2 = 0
	_		0.0%		FAC species $0 \times 3 = 0$
		$\overline{\Box}$	0.0%		FACU species $70 \times 4 = 280$
		$\overline{\Box}$	0.0%		UPL species $\frac{25}{2}$ x 5 = $\frac{125}{2}$
		\Box	0.0%		
			0.0%		Column Totals:95 (A)405 (B)
)			0.0%		Prevalence Index = $B/A = 4.263$
		\Box	0.0%		Hydrophytic Vegetation Indicators:
3.		\Box	0.0%		
					1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	=	= 10	otal Cover		2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')		_			3 - Prevalence Index is ≤3.0 ¹
		Ш	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
		Ш	0.0%		
	0_		0.0%		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·	0		0.0%		be present, unless disturbed of problematic.
j	0		0.0%		Definition of Vegetation Strata:
j	0		0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover:0 20% of Total Cover:0	0 =	= To	otal Cover		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')					(**************************************
1 Rottboellia cochinchinensis	40	V	42.1%	FACU	Sapling - Woody plants, excluding woody vines,
2. Geranium carolinianum	25	✓	26.3%	UPL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3 Rubus trivialis	20	✓	21.1%	FACU	
4. Vicia Iudoviciana	10	$\overline{\Box}$	10.5%	FACU	Sapling/Shrub - Woody plants, excluding vines, less
5		$\overline{\Box}$	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6			0.0%		Charle Wasdandants avaluation of the control of the
7			0.0%		Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
8			0.0%		
9.			0.0%		Herb - All herbaceous (non-woody) plants, including
0			0.0%		herbaceous vines, regardless of size, and woody
1		\Box	0.0%		plants, except woody vines, less than approximately 3 ft (1 m) in height.
2			0.0%		
50% of Total Cover: 47.5 20% of Total Cover: 19		 _ т₄	otal Cover		Woody vine - All woody vines, regardless of height.
		- 10	Jui COVEI		
Woody Vine Stratum (Plot size: 30')					
			0.0%		
	0_		0.0%		
			0.0%		
·			0.0%		Hydrophytic
j	0_		0.0%		Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= To	otal Cover		Present? Yes No •
temarks: (If observed, list morphological adaptations below).					

Profile Descri	iption: (De	scribe to	the depth	needed to doo	ument t	he indic	ator or co	onfirm the	absence of indicators.)			
Depth		Matrix				x Featu	ires		-			
(inches)	Color (Color (mo		<u>%</u>	Type 1		Texture	Remarks		
0-10	10YR	4/2	90	5YR	4/6	10	C		Silt Loam			
10-20	10YR	3/1	95	10YR	4/6	5	C	M	Silt Loam			
							-	-		-		
¹ Type: C=Conc	entration. D	=Depletio	n. RM=Redu	iced Matrix, CS=	-Covered	or Coate	d Sand Gr	ains ² Loca	tion: PL=Pore Lining. M=N	1atrix		
Hydric Soil I	ndicators:								Indicators for Prob	lematic Hydric Soils ³ :		
Histosol (A	\1)			Polyva	lue Below	Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9) (•		
Histic Epip	edon (A2)			Thin D	ark Surfa	ce (S9) (LRR S, T,	U)	2 cm Muck (A10)			
Black Histi	c (A3)						1) (LRR O			F18) (outside MLRA 150A,B)		
Hydrogen	Sulfide (A4)			Loamy	Gleyed N	1atrix (F2	2)			ain Soils (F19) (LRR P, S, T)		
Stratified L	ayers (A5)			✓ Deplet						: Loamy Soils (F20) (MLRA 153B)		
Organic Bo	odies (A6) (L	RR P, T, U	J)	Redox	Dark Sur	face (F6))		Red Parent Mater			
5 cm Muck	ky Mineral (A	47) (LRR P	, T, U)	Deplet	ed Dark S	Surface (I	F7)		Very Shallow Dar	` ,		
Muck Pres	Muck Presence (A8) (LRR U) Redox Depressions (F8)								Other (Explain in Remarks)			
1 cm Muck	(A9) (LRR	P, T)		Marl (I	=10) (LRR	. U)			Outer (Explain in	remandy		
Depleted E	Below Dark S	Surface (A	11)	Deplet	ed Ochric	(F11) (N	4LRA 151)					
☐ Thick Dark	Surface (A	12)		☐ Iron-M	langanese	Masses	(F12) (LR	R O, P, T)				
	rie Redox (A			Umbri	Surface	(F13) (LI	RR P, T, U)				
Sandy Mud	ck Mineral (S	61) (LRR O), S)	☐ Delta	Ochric (F1	.7) (MLR	A 151)		3			
Sandy Gle	yed Matrix (S4)		Reduc	ed Vertic	(F18) (M	LRA 150A,	, 150B)	Indicators wetland I	of hydrophytic vegetation and hydrology must be present,		
Sandy Rec	lox (S5)			Piedm	ont Flood	plain Soil	s (F19) (M	ILRA 149A)		disturbed or problematic.		
Stripped M	. ,			Anoma	alous Brig	ht Loamy	/ Soils (F20	0) (MLRA 14	9A, 153C, 153D)			
☐ Dark Surfa	ice (S7) (LRI	R P, S, T, I	U)									
Restrictive La	ver (if ohs	erved):										
Type:	iyei (ii obs	ci vea).										
Depth (inch	nes):								Hydric Soil Present?	Yes No		
Remarks:												
Nemaiks.												

Project/Site: Loul's Landing	City/County: Broussard Sampling Date: 23-Dec-21
Applicant/Owner: One Acadiana	State: LA Sampling Point: 7
Investigator(s): Ryne Menard & Kenny Montet	Section, Township, Range: S 34 T 10S R 05E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): concave Slope: 1.0 % / 0.6 °
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 31.84" N Long.: 91° 56' 41.28" W Datum: NAD83
Soil Map Unit Name: MbA, Memphis silt loam, 0 to 1 percent slopes, 59	
Are climatic/hydrologic conditions on the site typical for this time of yea	
	ly disturbed? Are "Normal Circumstances" present? Yes No
	Are Normal Greatment present.
-	oroblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ○ No •	Is the Sampled Area
Hydric Soil Present? Yes No	Yes No 🔍
Wetland Hydrology Present? Yes ○ No ●	within a Wetland?
Remarks:	<u> </u>
HYDROLOGY	
Wetland Hydrology Indicators:	Cocondany Indicators (minimum of 2 vacuited)
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	
High Water Table (A2) Marl Deposits (B15	
☐ Saturation (A3) ☐ Hydrogen Sulfide C	
☐ Water Marks (B1) ☐ Oxidized Rhizosphe	neres along Living Roots (C3) Dry Season Water Table (C2)
☐ Sediment Deposits (B2) ☐ Presence of Reduce	ced Iron (C4) Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduct	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	e (C7) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in R	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes ○ No ●
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	Wetland Hydrology Present? Yes ○ No ●
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
3.23.4	
Demantes	
Remarks:	

Tree Stratum (Plot size: 30') % Co 1. 0 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0 8. 0 50% of Total Cover: 0 20% of Total Cover: 0 0 0 Sapling or Sapling/Shrub Stratum (Plot size: 30')) 1. 0 2. 0 3. 0 4. 0 5. 0 6. 0 6. 0 6. 0 7. 0		Rel.	Indicate Status	
1. 0 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0 8. 0 7. 0 8. 0 5. 0 9. 0 7. 0 9. 0 9. 0 5. 0 9. 0 5. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9			0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 35 x 4 = 140
2. 0 3. 0 4. 0 5. 0 5. 0 7. 0 8. 0 50% of Total Cover: 0 20% of Total Cover: 0 0 Sapling or Sapling/Shrub Stratum (Plot size: 30') 1. 0 2. 0 3. 0 4. 0 6. 0 7. 0 7. 0 8. 0 8. 0 8. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9			0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	That are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index worksheet:
3			0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Species Across All Strata:
1			0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Species Across All Strata:
O O O O O O O O O O		Tota	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 35 x 4 = 140
Solution Column Column			0.0% 0.0% 0.0% al Cover 0.0% 0.0% 0.0% 0.0%	That Are OBL, FACW, or FAC: 50.0% (A/B) Prevalence Index worksheet:
7.			0.0% 0.0% al Cover 0.0% 0.0% 0.0% 0.0%	Prevalence Index worksheet:
7.			0.0% al Cover 0.0% 0.0% 0.0% 0.0%	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 35 x 4 = 140
3		- Tota	0.0% 0.0% 0.0% 0.0%	OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 35 x 4 = 140
50% of Total Cover: 0 20% of Total Cover: 0 0 Sapling or Sapling/Shrub Stratum (Plot size: 30') 1. 0 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0		- Tota	0.0% 0.0% 0.0% 0.0%	OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 35 x 4 = 140
Sapling or Sapling/Shrub Stratum (Plot size: 30') 1. 0 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0			0.0% 0.0% 0.0%	FACW species 0 x 2 = 0 FAC species 50 x 3 = 150 FACU species 35 x 4 = 140
1. 0 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0			0.0% 0.0% 0.0%	FAC species $50 \times 3 = 150$ FACU species $35 \times 4 = 140$
0 3 4 5 6 7			0.0% 0.0% 0.0%	FACU species 35 x 4 = 140
3. 0 4. 0 5. 0 6. 0 7. 0			0.0%	- '
4. 0 5. 0 6. 0 7. 0			0.0%	_ UPL species
5				1
6		<u> </u>	0.0%	Column Totals: <u>85</u> (A) <u>290</u> (B)
7		닠_		Prevalence Index = B/A = 3.412
		'	0.0%	_
•			0.0%	Hydrophytic Vegetation Indicators:
3 <u></u>	_		0.0%	1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover:0 20% of Total Cover:0 0	=	Tota	al Cover	2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')				3 - Prevalence Index is ≤3.0 ¹
1	Γ		0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
			0.0%	_
2				Indicators of hydric soil and wetland hydrology must
,			0.0%	be present, unless disturbed or problematic.
4			0.0%	Definition of Veretation Streets
5			0.0%	Definition of Vegetation Strata:
5			0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover: 0 20% of Total Cover: 0 0	_ =	Tota	al Cover	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')				
1. Rumex crispus 50		✓	58.8% FAC	Sapling - Woody plants, excluding woody vines,
2. Vicia ludoviciana 20			23.5% FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3. Rubus trivialis 15			17.6% FACU	
4. 0			0.0%	Sapling/Shrub - Woody plants, excluding vines, less
	— Г Г		0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.
		 		-
6		⊣ −	0.0%	Shrub - Woody plants, excluding woody vines,
7			0.0%	approximately 3 to 20 ft (1 to 6 m) in height.
8		႕_	0.0%	Herb - All herbaceous (non-woody) plants, including
9			0.0%	herbaceous vines, regardless of size, and woody
10	_	ᆜ_	0.0%	plants, except woody vines, less than approximately
11 <u> </u>	_ L	ᆜ_	0.0%	3 ft (1 m) in height.
12	_ L	\square_{-}	0.0%	_
50% of Total Cover: <u>42.5</u> 20% of Total Cover: <u>17</u> <u>85</u>	_ =	Tota	al Cover	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30')	_			
1	Г	\Box	0.0%	
				-
			0.0%	_
3	— ;		0.0%	_
4			0.0%	Hydrophytic
5			0.0%	Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	=	Tota	al Cover	Present? Yes No •
50% of Total Cover: 0 20% of Total Cover: 0 0 Remarks: (If observed, list morphological adaptations below).		Tota	al Cover	Present? 103 C 110 C

Dominant

Profile Descrip	ption: (Des	cribe to	the depth	needed to doo	ument th	e indic	ator or co	onfirm the	absence of indicators.)	
Depth -	Pepth Matrix Redox Features					-				
(inches)	Color (r	noist)	%	Color (mo		%	Tvpe 1	Loc ²	Texture	Remarks
0-10	10YR	3/1	95	10YR	3/6	5	С	M	Silt Loam	
10-20	10YR	3/2	80	7.5YR	4/6 2	20	С	М	Silty Clay Loam	
		-					-		-	
		-	-						. ,	
1										
		=Depletior	n. RM=Rec	luced Matrix, CS=	=Covered c	or Coate	d Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil In									Indicators for Proble	matic Hydric Soils ³ :
Histosol (A:	•				lue Below				1 cm Muck (A9) (L	RR O)
Histic Epipe	. ,			Thin D	ark Surfac	e (S9) (I	LRR S, T, I	J)	2 cm Muck (A10) (LRR S)
Black Histic				Loamy	Mucky Mi	neral (F	1) (LRR O))	Reduced Vertic (F1	8) (outside MLRA 150A,B)
Hydrogen S				Loamy	Gleyed M	atrix (F2	.)		Piedmont Floodplai	in Soils (F19) (LRR P, S, T)
Stratified La	ayers (A5)			Deplet	ed Matrix ((F3)				Loamy Soils (F20) (MLRA 153B)
Organic Bo	dies (A6) (LI	RR P, T, U	J)	✓ Redox	Dark Surfa	ace (F6)			Red Parent Materia	
5 cm Muck	y Mineral (A	7) (LRR P	, T, U)	Deplet	ed Dark Su	urface (F	7)		Very Shallow Dark	` '
Muck Prese	ence (A8) (LI	RR U)		Redox	Depressio	ns (F8)			Other (Explain in R	
1 cm Muck	(A9) (LRR P	P, T)		Marl (F10) (LRR	U)			outer (Explain in it	cinario
Depleted Be	elow Dark S	urface (A1	l1)		ed Ochric		ILRA 151)			
☐ Thick Dark	Surface (A1	2)			1anganese		-			
Coast Prairi	ie Redox (A1	L6) (MLRA	(150A)		c Surface (
Sandy Mucl	k Mineral (S	1) (LRR O	, S)		Ochric (F17			,		
	ed Matrix (S				ed Vertic (150B)	³ Indicators o	f hydrophytic vegetation and
Sandy Redo		,						LRA 149A)		ydrology must be present, disturbed or problematic.
Stripped Ma									9A, 153C, 153D)	isturbed or problematic.
	ce (S7) (LRR	DSTI	1)	Anome	alous brigit	it Loailly	SOIIS (F20)) (MLKA 14	9A, 153C, 153D)	
Dark Surface	JC (37) (LIKIN	. 1 , 3, 1, 0	J)							
								1		
Restrictive Lay	yer (if obse	erved):								
Туре:										
Depth (inche	es):								Hydric Soil Present?	Yes No
Remarks:										

Project/Site: Loul's Landing	City/County: Bro	oussard	Sampling [Date: 23-Dec-21		
Applicant/Owner: One Acadiana	Sta	te: LA	Sampling Point: 8			
Investigator(s): Ryne Menard & Kenny Montet	Section, Townsh	nip, Range: S 34	T 10S	R 05E		
.andform (hillslope, terrace, etc.): Flat	Local relief (conc	ave, convex, none)	: concave Slope	: 1.0 % / 0.6 °		
Subregion (LRR or MLRA): LRR O La	t.: 30° 07' 27.90" N	Long.:	91° 56' 45.88" W	Datum: NAD83		
oil Map Unit Name: FoA, Frost silt loam, 0 to 1 percent slopes,909	<u></u>		NWI classification:	_		
are climatic/hydrologic conditions on the site typical for this time of	f year? Yes	No O (If n	o, explain in Remarks.)			
	cantly disturbed?	-	ımstances" present?	Yes ● No ○		
	lly problematic?		in any answers in Rema	rks.)		
SUMMARY OF FINDINGS - Attach site map showing	sampling point l		-	-		
Hydrophytic Vegetation Present? Yes No	Is the Sa	mpled Area				
Hydric Soil Present? Yes ● No ○		Voc	● No ○			
Wetland Hydrology Present? Yes No	within a	Wetland?	C 110 C			
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		Sec	ondary Indicators (minimum	1 of 2 required)		
Primary Indicators (minimum of one required; check all that app			Surface Soil Cracks (B6)			
Surface Water (A1)			Sparsely Vegetated Concav	e Surface (B8)		
	(B15) (LRR U) fide Odor (C1)		☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)			
	ospheres along Living Ro		Dry Season Water Table (C2)			
	leduced Iron (C4)		Crayfish Burrows (C8)	2)		
	Reduction in Tilled Soils (C		Saturation Visible on Aerial	Imagery (C9)		
Algal Mat or Crust (B4) Thin Muck Su	rface (C7)		Geomorphic Position (D2)	3 7 (7		
☐ Iron Deposits (B5) ☐ Other (Explain	n in Remarks)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR	. T, U)		
Field Observations:						
Surface Water Present? Yes O No O Depth (inche	es):					
Water Table Present? Yes No Depth (inche	es): <u>12</u>		v (a)			
Saturation Present? (includes capillary fringe) Yes No Depth (inche	es):0	Wetland Hydrolog	y Present? Yes •	No U		
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspe	ctions), if available	:			
Remarks:						

Tree Stratum (Plot size: _30')			ominant pecies?		Sampling Point: 8
(Plot size: 20')	Absolute		el.Strat. I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover		Cover	Status	Number of Dominant Species
l	0		0.0%		That are OBL, FACW, or FAC:
2	0		0.0%		
3.			0.0%		Total Number of Dominant Species Across All Strata: 3 (B)
i			0.0%		Species Across Air Strate.
j	_		0.0%		Percent of dominant Species
)			0.0%		That Are OBL, FACW, or FAC: 66.7% (A/B)
7.			0.0%		Prevalence Index worksheet:
3.		$\overline{\Box}$	0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 0 20% of Total Cover: 0		 = T/	otal Cover		OBL species 25 x 1 = 25
			otal corel		FACW species x 2 = 0
Sapling or Sapling/Shrub Stratum (Plot size: 30'			0.00/		
					FAC species $15 \times 3 = 45$
·			0.0%		FACU species $35 \times 4 = 140$
3			0.0%		UPL species $0 \times 5 = 0$
			0.0%		Column Totals:
5					Prevalence Index = B/A = 2.800
S			0.0%		·
7		Ц	0.0%		Hydrophytic Vegetation Indicators:
3	0	Ш	0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover:0 20% of Total Cover:0	0 =	= T	otal Cover		✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')					✓ 3 - Prevalence Index is ≤3.0 ¹
<u> </u>	0		0.0%		
			0.0%		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
).					¹ Indicators of hydric soil and wetland hydrology must
3.			0.0%		be present, unless disturbed or problematic.
			0.0%		Definition of Vegetation Streets
j			0.0%		Definition of Vegetation Strata:
5		Ш	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover: 0 20% of Total Cover: 0	=	= T	otal Cover		(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')					
1 Rottboellia cochinchinensis	35	V	46.7% F	ACU	Sapling - Woody plants, excluding woody vines,
2. Eleocharis parvula		✓)BL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3 Andropogon virginicus		✓		AC	Than 6 III. (1.6 cm) BBT.
4. Alternanthera philoxeroides)BL	Sapling/Shrub - Woody plants, excluding vines, less
5		П	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
			0.0%		
6			0.0%		Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7					approximately 5 to 20 ft (1 to 6 fff) in neight.
8			0.0%		Herb - All herbaceous (non-woody) plants, including
9			0.0%		herbaceous vines, regardless of size, and woody
			0.0%		plants, except woody vines, less than approximately
U		Ш	0.0%		3 ft (1 m) in height.
1					I
1	0		0.0%		Mandy vine All woody vines resembles of height
l1	0	 = Te			Woody vine - All woody vines, regardless of height.
1. 2. 50% of Total Cover: 37.5 20% of Total Cover: 15	0	 = Te			Woody vine - All woody vines, regardless of height.
1	<u>0</u> =	 = Te			Woody vine - All woody vines, regardless of height.
1	0=	= Te	0.0%		Woody vine - All woody vines, regardless of height.
1	0 75 =	_ = Te	otal Cover		Woody vine - All woody vines, regardless of height.
1	0 75 =	= Te	0.0% 0.0% 0.0%		Woody vine - All woody vines, regardless of height.
1	0 0 0 0	= Te	0.0% 0.0% 0.0% 0.0%		Woody vine - All woody vines, regardless of height. Hydrophytic
11	0 75 =		0.0% 0.0% 0.0%		

Profile Description: (Describe to	the depth ne	eded to document	the indic	ator or co	nfirm the	absence of indicators.)	
Depth Matrix		Red	lox Featu	res		_	
(inches) Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20 10YR 3/1	95	10YR 3/6	5	С	М	Clay Loam	
				-			
				-	-	-	
¹ Type: C=Concentration. D=Depletion	n. RM=Reduce	d Matrix, CS=Covere	d or Coate	d Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=N	
Hydric Soil Indicators:		•					ematic Hydric Soils ³ :
Histosol (A1)		Polyvalue Belo	w Surface	(S8) (LRR	S T II)		
Histic Epipedon (A2)		Thin Dark Surf				1 cm Muck (A9) (•
Black Histic (A3)		Loamy Mucky			•	2 cm Muck (A10)	
Hydrogen Sulfide (A4)							f18) (outside MLRA 150A,B)
Stratified Layers (A5)		Loamy Gleyed		<u>()</u>			ain Soils (F19) (LRR P, S, T)
	1)	Depleted Matri					Loamy Soils (F20) (MLRA 153B)
Organic Bodies (A6) (LRR P, T, L	-	✓ Redox Dark Su	, ,			Red Parent Mater	
5 cm Mucky Mineral (A7) (LRR P	, 1, 0)	Depleted Dark		F7)		Very Shallow Dark	k Surface (TF12)
Muck Presence (A8) (LRR U)		Redox Depress				Other (Explain in	Remarks)
☐ 1 cm Muck (A9) (LRR P, T)		Marl (F10) (LR					
Depleted Below Dark Surface (A:	11)	Depleted Ochr	ic (F11) (N	/ILRA 151)			
Thick Dark Surface (A12)		Iron-Mangane	se Masses	(F12) (LRI	R O, P, T)		
Coast Prairie Redox (A16) (MLRA	A 150A)	Umbric Surface	e (F13) (LF	RR P, T, U)		
Sandy Muck Mineral (S1) (LRR O	, S)	Delta Ochric (F	17) (MLR/	A 151)		3	
Sandy Gleyed Matrix (S4)		Reduced Verti	c (F18) (M	LRA 150A,	150B)		of hydrophytic vegetation and hydrology must be present,
Sandy Redox (S5)		☐ Piedmont Floo	dplain Soil	s (F19) (M	LRA 149A)		disturbed or problematic.
Stripped Matrix (S6)		Anomalous Bri	ght Loamy	Soils (F20) (MLRA 14	9A, 153C, 153D)	
☐ Dark Surface (S7) (LRR P, S, T, I	J)						
Restrictive Layer (if observed):							
Type:			_				
Depth (inches):			_			Hydric Soil Present?	Yes No
Remarks:					*		

Project/Site: Loul's Landing	City/County: Brouss	sard	Sampling Dat	e: 23-Dec-21		
Applicant/Owner: One Acadiana	State:	LA S	ampling Point: 9			
Investigator(s): Ryne Menard & Kenny Montet	Section, Township,	Range: S 34	T _10S F	05E		
Landform (hillslope, terrace, etc.): Flat	Local relief (concave	, convex, none):	concave Slope:	1.0 % / 0.6°		
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 28.22" N	Long.: 91	° 56' 46.17" W	Datum: NAD83		
Soil Map Unit Name: FoA, Frost silt loam, 0 to 1 percent slopes,90%			WI classification:			
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes • N		explain in Remarks.)			
		• ,	•	es No		
			any answers in Remarks			
SUMMARY OF FINDINGS - Attach site map showing sa			-	-		
Hydrophytic Vegetation Present? Yes O No •						
Hydric Soil Present? Yes No O	Is the Samp					
Wetland Hydrology Present?	within a Wet	tland? Yes \subseteq	No ●			
Remarks:						
HYDROLOGY Westland Mindrelany Tudingtons						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)				
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Aquatic Fauna (B:			Surface Soil Cracks (B6)			
High Water Table (A2) High Water Table (A2) Marl Deposits (B1	•	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)				
Saturation (A3) Hydrogen Sulfide	, ,		Moss Trim Lines (B16)			
	heres along Living Roots (Dry Season Water Table (C2)			
☐ Sediment Deposits (B2) ☐ Presence of Redu	ıced Iron (C4)	Crayfish Burrows (C8)				
☐ Drift Deposits (B3) ☐ Recent Iron Redu	uction in Tilled Soils (C6)	led Soils (C6) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin Muck Surface	ie (C7)	Geomorphic Position (D2)				
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	· —				
Inundation Visible on Aerial Imagery (B7)			C-Neutral Test (D5)			
☐ Water-Stained Leaves (B9)		Sp	hagnum moss (D8) (LRR T,	U)		
Field Observations: Surface Water Present? Yes No Depth (inches):						
		Wetland Hydrology Present? Yes O No •				
Saturation Present? (includes capillary fringe) Yes No Depth (inches):						
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspectio	iis), ii avaliable:				

			ominant		Sampling Point: 9
	Absolute		pecies? el.Strat	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover		Cover	Status	Number of Dominant Species
[0		0.0%		That are OBL, FACW, or FAC: (A)
2.	0		0.0%		
3.			0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
ļ. <u></u>			0.0%		Species reliass rill strate.
j	_		0.0%		Percent of dominant Species
)	_		0.0%		That Are OBL, FACW, or FAC: 0.0% (A/B)
7.			0.0%		Prevalence Index worksheet:
		\Box	0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 0 20% of Total Cover: 0		—. = Тс	otal Cover		OBL species $0 \times 1 = 0$
-	-	• • •	/tai 0010.		FACW species $0 \times 2 = 0$
Sapling or Sapling/Shrub Stratum (Plot size: 30'			0.00/		
			0.0%		FAC species $0 \times 3 = 0$
2.		Н,	0.0%		FACU species $\underline{55}$ x 4 = $\underline{220}$
3		Н.	0.0%		UPL species $\frac{25}{}$ x 5 = $\frac{125}{}$
·		\Box	0.0%		Column Totals: <u>80</u> (A) <u>345</u> (B)
j			0.0%		Prevalence Index = B/A =4.313
5		Ц	0.0%		
7	0		0.0%		Hydrophytic Vegetation Indicators:
3	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= Tc	otal Cover		2 - Dominance Test is > 50%
Shrub Stratum (Plot size: 30')					
<u> </u>	0		0.00/		3 - Prevalence Index is ≤3.0 ¹
		H.	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
2			0.0%		1 - Parkers of hadden and making hadraness much
3		\sqcup	0.0%		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
ł			0.0%		
j	0		0.0%		Definition of Vegetation Strata:
5	0		0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover:0 20% of Total Cover:0	0 =	= Tc	otal Cover		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: 30')					(7.0 cm) or larger in diameter at broadt hoight (55.1).
1. Rottboellia cochinchinensis	25	~	43.8%	FACU	Sapling - Woody plants, excluding woody vines,
2 Pubus trivialis					approximately 20 ft (6 m) or more in height and less
2. Rubus trivialis				FACU	than 3 in. (7.6 cm) DBH.
3. Geranium carolinianum		Н.		UPL	Carling/Chrub Wandy plants avaluding vines less
4. Verbena litoralis var. brevibracteata		\square		UPL	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
5			0.0%		diano in 22.1 and grant and the control of the cont
6		Ц	0.0%		Shrub - Woody plants, excluding woody vines,
7		Ц	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8			0.0%		
9			0.0%		Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
0	0		0.0%		plants, except woody vines, less than approximately
1	0		0.0%		3 ft (1 m) in height.
2.			0.0%		
		 = Тс	otal Cover		Woody vine - All woody vines, regardless of height.
SOM OF LOTALLOVER! ALL 70% OF LOTALLOVER! ID		- 10	Mai Corc.		
50% of Total Cover: 40 20% of Total Cover: 16					
Woody Vine Stratum (Plot size: 30'		$\overline{}$			
Woody Vine Stratum (Plot size: 30')			0.0%		
Woody Vine Stratum (Plot size: 30'			0.0%		
Woody Vine Stratum (Plot size: 30')	0				
Woody Vine Stratum (Plot size: 30')			0.0%		
Woody Vine Stratum (Plot size: 30')			0.0%		Hydrophytic
Woody Vine Stratum (Plot size: 30')	0 0 0		0.0% 0.0% 0.0%		Hydrophytic Vegetation Present? Yes ○ No ●

Profile Descr	iption: (Describe to	the depth ne	eded to document	the indic	ator or co	onfirm the	absence of indicators.)	
Denth Matrix Redox Features					-			
(inches)	Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
0-20	10YR 3/2	95	7.5YR 3/6	5	С	M	Silty Clay Loam	
							-	
								15-
				-				
1 Typo: C-Con	contration D-Danlation	DM-Poduco	d Matrix CS-Covere	d or Coato	d Cand Cr	oine 21 oca	ation: PL=Pore Lining. M=M	atrix
	· · · · · · · · · · · · · · · · · · ·	i. Ki – Keduce	u Matrix, C3=Covere	u or coate	u Sanu Gra	airis -Luca		
Hydric Soil I							Indicators for Proble	ematic Hydric Soils ³ :
Histosol (A	•		Polyvalue Belo				1 cm Muck (A9) (L	.RR O)
	edon (A2)		Thin Dark Surf	ace (S9) (LRR S, T, I	J)	2 cm Muck (A10)	(LRR S)
Black Histi	` '		Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic (F.	18) (outside MLRA 150A,B)
Hydrogen	Sulfide (A4)		Loamy Gleyed	Matrix (F2	2)		Piedmont Floodpla	in Soils (F19) (LRR P, S, T)
Stratified I	Layers (A5)		Depleted Matr	ix (F3)				Loamy Soils (F20) (MLRA 153B)
Organic B	odies (A6) (LRR P, T, U	1)	✓ Redox Dark Su	urface (F6)	ı		Red Parent Materi	
5 cm Muc	ky Mineral (A7) (LRR P,	, T, U)	Depleted Dark	Surface (I	F7)		☐ Very Shallow Dark	
☐ Muck Pres	sence (A8) (LRR U)		Redox Depress		,			
	k (A9) (LRR P, T)		Marl (F10) (LR				Other (Explain in F	Remarks)
	Below Dark Surface (A1	1)	Depleted Ochr	-	/II DA 151\			
	k Surface (A12))				. O D T\		
	` '	1504)	☐ Iron-Mangane					
	rie Redox (A16) (MLRA	-	Umbric Surface)		
	ck Mineral (S1) (LRR O	, S)	Delta Ochric (F				3 _{Indicators}	of hydrophytic vegetation and
	yed Matrix (S4)		Reduced Verti	c (F18) (M	LRA 150A,	150B)		ydrology must be present,
Sandy Red			☐ Piedmont Floo	dplain Soil	s (F19) (M	LRA 149A)	unless	disturbed or problematic.
Stripped N	1atrix (S6)		Anomalous Bri	ght Loamy	Soils (F20) (MLRA 14	9A, 153C, 153D)	
☐ Dark Surfa	ace (S7) (LRR P, S, T, l	J)						
	ayer (if observed):							
Туре:				_			Hydric Soil Present?	Yes ● No ○
Depth (inch	nes):			_			Hydric Soil Present?	Yes S No C
Remarks:								

Project/Site: Loul's Landing	City/County: Broussard Sampling Date: 23-Dec-21
Applicant/Owner: One Acadiana	State: LA Sampling Point: 10
Investigator(s): Ryne Menard & Kenny Montet	Section, Township, Range: S 34 T 10S R 05E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): _concaveSlope: 1.0 % / 0.6 c
Subregion (LRR or MLRA): LRR O Lat.:	30° 07' 23.87" N Long.: 91° 56' 46.14" W Datum: NAD83
Soil Map Unit Name: MbA, Memphis silt loam, 0 to 1 percent slopes, 59	
Are climatic/hydrologic conditions on the site typical for this time of yea	
	ly disturbed? Are "Normal Circumstances" present? Yes • No ·
	problematic? (If needed, explain any answers in Remarks.)
<i>y</i> - <i>y</i> - <i>y y</i> - <i>y</i>	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No •	within a Wetland? Yes O No
Remarks:	
HYDROLOGY Wetland Hydrology Indicators:	Control Indicators (minimum of 2 yearing)
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B1:	
High Water Table (A2) Marl Deposits (B15)	
Saturation (A3) Hydrogen Sulfide (
☐ Water Marks (B1) ☐ Oxidized Rhizosphe	eres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4) Crayfish Burrows (C8)
	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface	
☐ Iron Deposits (B5) ☐ Other (Explain in R☐ Inundation Visible on Aerial Imagery (B7)	Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spriagrium moss (Do) (ERK 1, 0)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
	Wetland Hydrology Present? Yes ○ No ●
(includes capillary fringe) Yes V No Depth (inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:

		Dominant Species?		Sampling Point: 10
(8) - 1 - 2 - 2 - 2 - 2 - 2		_ Species? _ Rel.Strat.		Dominance Test worksheet:
ree Stratum (Plot size: <u>30'</u>)	% Cover		Status	Number of Dominant Species
		0.0%		That are OBL, FACW, or FAC:(A)
		0.0%		Total Number of Dominant
	-	0.0%		Species Across All Strata: (B)
		0.0%		Percent of dominant Species
	-	0.0%		That Are OBL, FACW, or FAC: 0.0% (A/B)
	•	0.0%		Burnelson Tuden wederland
		0.0%		Prevalence Index worksheet:
0% of Total Cover: 0 20% of Total Cover: 0		= Total Cove		
apling or Sapling/Shrub Stratum (Plot size: _30'		- Total Covel		FACW species $0 \times 2 = 0$
phing of Sapring/Sinub Stratum (Flot Size. 50		0.0%		FAC species $10 \times 3 = 30$
		0.0%		
		0.0%] '
	_	0.0%		UPL species $\frac{15}{}$ x 5 = $\frac{75}{}$
		0.0%		Column Totals: <u>85</u> (A) <u>345</u> (B)
		0.0%		Prevalence Index = B/A = 4.059
		0.0%		Hydrophytic Vegetation Indicators:
		0.0%		
				1 - Rapid Test for Hydrophytic Vegetation
0% of Total Cover:0 20% of Total Cover:0	=	= Total Cover		2 - Dominance Test is > 50%
nrub Stratum (Plot size: 30')				3 - Prevalence Index is ≤3.0 ¹
	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
	_	0.0%		
		0.0%		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0.0%		
	0	0.0%		Definition of Vegetation Strata:
	0	0.0%		Tree - Woody plants, excluding woody vines,
0% of Total Cover:0 20% of Total Cover:0	=	= Total Cove	r	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
erb Stratum (Plot size: 30')				
				1 O 1 !
Rottboellia cochinchinensis	40	✓ 47.1%	FACU	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
		✓ 47.1% ✓ 17.6%	FACU FACU	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Rubus trivialis		_		approximately 20 ft (6 m) or more in height and less
Rubus trivialis Verbena litoralis var. brevibracteata	15	17.6%	FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less
Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum	15	17.6% 11.8%	FACU UPL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum	15 10 5 5	✓ 17.6% ☐ 11.8% ☐ 5.9%	FACU UPL UPL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum Vicia ludoviciana Rumex crispus	15 10 5 5 5 5	✓ 17.6% ☐ 11.8% ☐ 5.9% ☐ 5.9%	FACU UPL UPL FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less
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Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum Vicia ludoviciana Rumex crispus	15 10 5 5 5 5 0 0	17.6% 11.8% 5.9% 5.9% 5.9% 5.9% 0.0%	FACU UPL UPL FAC FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
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Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum Vicia ludoviciana Rumex crispus	15 10 5 5 5 5 0 0	17.6% 11.8% 5.9% 5.9% 5.9% 5.9% 0.0% 0.0%	FACU UPL UPL FAC FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum Vicia ludoviciana Rumex crispus	15 10 5 5 5 5 0 0 0	17.6% 11.8% 5.9% 5.9% 5.9% 5.9% 0.0% 0.0% 0.0%	FACU UPL UPL FAC FACU FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately
Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum Vicia ludoviciana Rumex crispus 0% of Total Cover: 42.5 20% of Total Cover: 17	15 10 5 5 5 5 0 0 0	17.6% 11.8% 5.9% 5.9% 5.9% 5.9% 0.0% 0.0% 0.0% 0.0%	FACU UPL UPL FAC FACU FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum Vicia ludoviciana Rumex crispus	15 10 5 5 5 5 0 0 0 0 0	17.6% 11.8% 5.9% 5.9% 5.9% 0.0% 0.0% 0.0% 0.0% Total Cover	FACU UPL UPL FAC FACU FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum Vicia ludoviciana Rumex crispus 0% of Total Cover: 42.5 20% of Total Cover: 17 pody Vine Stratum (Plot size: 30')	15 10 5 5 5 5 5 0 0 0 0 0 0 85	17.6% 11.8% 5.9% 5.9% 5.9% 5.9% 0.0% 0.0% 0.0% 0.0%	FACU UPL UPL FAC FACU FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
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Rubus trivialis Verbena litoralis var. brevibracteata Geranium carolinianum Cirsium horridulum Vicia ludoviciana Rumex crispus Ownorm of Total Cover: 42.5 20% of Total Cover: 17 Toody Vine Stratum (Plot size: 30')	15 10 5 5 5 5 5 0 0 0 0 0 0 85 =	17.6% 11.8% 5.9% 5.9% 5.9% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	FACU UPL UPL FAC FACU FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height.
7 Rumex crispus 3. 9. 1.	15 10 5 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0	17.6% 11.8% 5.9% 5.9% 5.9% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	FACU UPL UPL FAC FACU FACU	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. 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, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height.

Dominant

Profile Descr	iption: (Describe to	the depth ne	eded to document	the indic	ator or co	onfirm the	absence of indicators.)	
Denth Matrix Redox Features						_		
(inches)	Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
0-20	10YR 3/2	95	10YR 4/6	5	С	M	Silt Loam	
				-				
1 Tymor C—Cone	contration D-Donlation		d Matrix CC_Covers	d or Coato	d Cand Cu		stions DI - Doro Lining M-N	- Interior
•••	· · · · · · · · · · · · · · · · · · ·	i. RM=Reduce	a Matrix, CS=Covere	d or Coate	a Sana Gr	ains ²Loca	ation: PL=Pore Lining. M=N	
Hydric Soil I							Indicators for Probl	ematic Hydric Soils ³ :
Histosol (A	•		Polyvalue Belo				1 cm Muck (A9) (LRR O)
	edon (A2)		Thin Dark Surf	ace (S9) (LRR S, T, I	J)	2 cm Muck (A10)	(LRR S)
Black Hist	ic (A3)		Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic (F	18) (outside MLRA 150A,B)
Hydrogen	Sulfide (A4)		Loamy Gleyed	Matrix (F2	2)			ain Soils (F19) (LRR P, S, T)
Stratified I	Layers (A5)		Depleted Matr	ix (F3)				Loamy Soils (F20) (MLRA 153B)
Organic B	odies (A6) (LRR P, T, U)	✓ Redox Dark Su		ı		Red Parent Mater	
5 cm Muc	ky Mineral (A7) (LRR P,	T, U)	Depleted Dark	Surface (I	F7)		Very Shallow Dark	
	sence (A8) (LRR U)		Redox Depress		,			
	k (A9) (LRR P, T)		☐ Marl (F10) (LR				Other (Explain in	Remarks)
	Below Dark Surface (A1	1)	_		/I D			
	k Surface (A12)	· -)	Depleted Ochr			. O D T\		
	` '	1504)	☐ Iron-Mangane					
	rie Redox (A16) (MLRA		Umbric Surface)		
	ck Mineral (S1) (LRR O	, S)	Delta Ochric (F				3 _{Indicators}	of hydrophytic vegetation and
	yed Matrix (S4)		Reduced Verti	c (F18) (M	LRA 150A,	150B)		nydrology must be present,
Sandy Red			☐ Piedmont Floo	dplain Soil	s (F19) (M	LRA 149A)	unless	disturbed or problematic.
Stripped N	1atrix (S6)		Anomalous Bri	ght Loamy	Soils (F20) (MLRA 14	9A, 153C, 153D)	
☐ Dark Surfa	ace (S7) (LRR P, S, T, l	J)						
	ayer (if observed):							
Туре:				_			Hydric Soil Present?	Yes No
Depth (inch	nes):			_			Hydric Soil Present?	Yes S No C
Remarks:								