

Exhibit EE. Maxie & Vida Girouard Site Wetlands Delineation Report







June 27, 2023

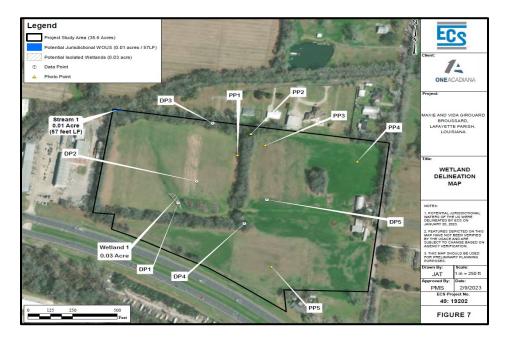
Mr. Emile Lege One Acadiana 804 East St. Mary Street Lafayette, LA 70503

Maxie & Vida Girouard Site Wetlands Delineation Report

RE: Maxie & Vida Girouard Site - Wetland Delineation Executive Summary CSRS Project No 214002

Dear Mr. Lege,

In part of the Louisiana Economic Development (LED) Certified Sites Program a wetlands delineation was completed for the Maxie & Vida Girouard Site in Lafayette Parish. On 24 January 2023, a wetland delineation was completed in accordance with the United States Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual and Regional Supplements and identified approximately 0.03 acre of potentially non-jurisdictional isolated wetlands and 0.01 acre of potential non-wetland waters of the US within the site boundary. The findings of this report are considered preliminary and have not been reviewed or approved by the USACE. A Jurisdictional Determination (JD) through the USACE will be required to determine if the identified wetlands and waters are subject to Section 404 and/or 10 of the Clean Water Act.



Thank you for the opportunity to assist you in this project. Should you have any questions or require additional information, feel free to contact me.

Respectfully,

Elliott Boudreaux *Project Manager*

WETLAND DELINEATION



MAXIE AND VIDA GIROUARD SITE

LA HWY 90 & NORTH GIROUARD ROAD BROUSSARD, LOUISIANA 70518

ECS PROJECT NO. 49:19360

FOR: ONEACADIANA

JANUARY 24, 2023



Geotechnical • Construction Materials • Environmental • Facilities

January 24, 2023

Mr. Emile Lege OneAcadiana 804 E St. Mary Blvd. Lafayette, Louisiana, 70503

ECS Project No. 49:19360

Reference: Waters of the U.S. Wetland Delineation Report, Maxie and Vida Girouard Site, LA Hwy 90 & North Girouard Road, Broussard, Lafayette Parish Louisiana

Dear Mr. Lege:

ECS Southeast, LLP (ECS) is pleased to submit this wetland delineation report regarding potential Waters of the U.S. (WOUS), including wetlands services for the above-referenced site. ECS services were provided in general accordance with ECS Proposal No. 49:49: 34090P authorized on January 13, 2023 and generally meets the requirements of the 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region, Version 2.0 dated November 2010. Based on our field reconnaissance potentially jurisdictional non-wetland WOUS, as well as, potentially non-jurisdictional isolated wetlands WOUS are present onsite.

If there are questions regarding this report, or a need for further information, please contact the undersigned.

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1.0 INTRODUCTION

This report presents the findings of a wetland delineation study conducted by ECS Southeast, LLP (ECS) for OneAcadiana at the Maxie and Vida Girouard Site Project Study Area (PSA) located at LA Hwy 90 & North Girouard Road, Broussard, Lafayette Parish, Louisiana (30.152108, -91.951349). According to the Lafayette Parish Geographic Information System (GIS) website, the Parcel Identification Number (PIN) is: 6034838. The site, referred to as the Project Study Area (PSA) for the purpose of this report, includes approximately 35.6 acres, as shown on the Site Location Map (Appendix I, Figure 1). The PSA currently consists predominately of agricultural land with some wooded areas traversing the north and west boundaries. The PSA is bordered by LA Hwy 90 to the south, North Girouard Road to the east, residential development to the north and commercial businesses to the west. The purpose of this study was to identify and delineate jurisdictional Waters of the U.S. (WOUS) within the PSA.

Wetlands are defined by the United States Army Corps of Engineers (USACE) and the United States Environmental Protection Agency (EPA) as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances, do support a prevalence of vegetation typically adapted for life in saturated soil conditions." In order for an area to be classified as wetland, hydrophytic vegetation, hydric soils, and wetland hydrology indicators must be present described in the 1987 "Corps of Engineers Wetlands Delineation Manual" and the Appropriate Regional Supplement.

2.0 METHODOLOGY

The findings of the WOUS delineation is based on ECS' professional judgment and application of the technical criteria presented in the 1987 USACE Wetlands Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region, Version 2.0 dated November 2010.

ECS completed the following tasks to identify and delineate potentially jurisdictional WOUS boundaries onsite:

2.1 Literature Review

ECS reviewed supporting information from publicly-available databases to identify possible ecological effects the project may have on potential state- and/or federally-jurisdictional water resources. During the desktop review, ECS documented relevant, site-specific details (e.g., topographic characteristics, soil composition, recent precipitation, level of disturbance, plant community structure, etc.) and integrated the obtained information with the onsite delineation effort.

2.2 Methodology for Field Investigation

Wetland boundaries were delineated using the routine onsite determination method described in the 1987 USACE Manual and the Atlantic and Gulf Coastal Plain Regional Supplement, in conjunction with the USACE National Wetland Plant List and the USDA NRCS Soil Survey.



ECS performed the onsite wetland delineation utilizing methodologies described by the USACE. Site hydrology, if observed, was documented according to the guidelines set forth by USACE wetland delineation methodology. The plant community within the radius of the wetland data point was characterized according to species and ranked by cover values to ascertain the dominance of hydrophytic (wetland) plants within the plant community. The USFWS has defined five wetland plant indicator categories including:

- Obligate wetland (OBL) has >99% probability of occurring in wetlands
- Facultative wetland (FACW) has 66% to 99% chance of occurring in wetlands
- Facultative (FAC) has 33% to 66% chance of occurring in wetlands
- Facultative upland (FACU) has 1 to 33% chance of occurring in wetlands
- Upland (UPL) has <1% chance of occurring in wetlands
- No Indicator (NI) no wetland indicator for the specified species, considered UPL

Plants identified as OBL, FACW, or FAC are considered hydrophytes and proliferate in wetland conditions.

In areas determined to be dominated by hydrophytic vegetation and potential wetland hydrology is observed, an approximately 16-inch soil pedon was excavated with a shovel to determine if hydric soils were present. The soil pit was also inspected to determine if indicators of wetland hydrology (inundation, soil saturation, oxidized rhizospheres on living roots, etc.) were present.

Once an area is determined to be a wetland, further testing was performed to locate the wetland/ non-wetland boundary. A second data point was established in an adjacent non-wet area to document non-wetland conditions. Wetland boundaries were documented with a handheld global positioning unit (Trimble Geo 7XTM).

Data forms specified in the Regional Supplement were completed for each wetland and non-wetland data point location. Information recorded on the USACE-approved wetland data sheets included vegetation data (species and percent cover in each stratum), soil matrix and redox conditions to a depth of 16 inches, and hydrological indicator observations utilized in making wetland determinations.

2.3 Methodology for Delineating Streams

During the wetland delineation field investigation, ECS identified streams onsite that could be considered potentially jurisdictional by the USACE. ECS used field indicators such as flow, substrate composition, presence/absence of defined bed and banks, origin of hydrologic source, presence/absence of vegetation in the stream channel, and composition and relative abundance of resident benthic macroinvertebrates to classify onsite streams into three stream types: ephemeral, intermittent, and perennial.

Regional Guidance Letter (RGL) No. 05-05 provides guidance on identifying physical indicators of Ordinary High Water Mark (OHWM) as defined in 33 CFR Sections 328.3(e) and 329.11(a)(1), and discusses implementation of other appropriate means which consider the characteristics of the surrounding areas to establish the lateral limits of jurisdiction over non-tidal waters. Per RGL No.



05-05, the lateral limits of jurisdiction over non-tidal water bodies extend to the location of the OHWM in the absence of adjacent wetlands. When adjacent wetlands are present, Clean Water Act (CWA) jurisdiction extends beyond the OHWM to the limits of the adjacent wetlands.

3.0 FINDINGS

3.1 Literature Review

ECS professionals reviewed the U.S. Geological Survey (USGS) Topographic Map, the U.S. Department of Agriculture Natural Resource Conservation Service (USDA-NRCS) Web Soil Survey, the USDA-NRCS Hydric Soils List, the Federal Emergency Management Agency (FEMA) Floodplain Mapping Service, U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) Wetlands Mapper, and available aerial photographs to identify potentially jurisdictional Waters of the U.S. (i.e., streams, wetlands, natural ponds, lakes, etc.) and available watershed information.

3.1.1 Literature Review Summary

The following is a summary of the available desktop information that was reviewed as part of this study:

- According to the Broussard (Louisiana) USGS Topographic Map Quadrangle dated 1983 (Appendix I, Figure 2), a surface water is depicted on the northwest corner of the PSA. The PSA ranges from approximately 19 to 45 feet above mean sea level (MSL).
- According to the USDA-NRCS Web Soil Survey of Lafayette Parish (Appendix I, Figure 3), the PSA is comprised of the following soil map unit(s): Frost silt loam, 0 to 1 percent slopes, occasionally flooded (FrA), Memphis silt loam, 0 to 1 percent slopes (MbA), and Memphis silt loam, 1 to 5 percent slopes (MbC). The FrA and MbA soils are both listed on the USDA-NRCS Hydric Soils List for Lafayette Parish, Louisiana.
- The US Fish and Wildlife NWI map (Appendix I, Figure 4) does depict a Riverine in the northwest corner of the PSA. The site is located within the La Salle Coulee-Bayou Tortue watershed and is identified as Hydrologic Unit Code (HUC) 080801030203.
- The FEMA Flood Insurance Rate Maps (FIRMs), Panel(s) 22055C0200J and 22099C0225H, dated December 21, 2018 and November 5, 2010 respectively (Appendix I, Figure 5) indicates that the majority of the PSA is located in un-shaded Zone X, while a small portion of the northwest corner of the PSA is located within Flood Zone AE (areas with a 1% Annual Chance Flood Hazard).
- ECS reviewed the National Atmospheric and Oceanic Administration (NOAA) Light Detection and Ranging (LiDAR) Digital Elevation Model (DEM) of the PSA (Appendix I, Figure 6). The onsite elevations range from approximately 15 feet above MSL to approximately 45 feet above MSL.



3.2 Field Investigation Findings

ECS personnel conducted the field investigation on January 20, 2023. During the field reconnaissance of the PSA, a potentially isolated and non-jurisdictional emergent wetland area, consisting of herbaceous vegetation, was observed in the western central portion of the property. Also, ECS did identify a potentially jurisdictional non-wetland WOUS within the PSA. Data was collected utilizing a Trimble Geo7XTM hand-held GPS unit capable of sub-meter accuracy, and the data downloaded to produce a wetland delineation map (Appendix I, Figure 7). The potentially jurisdictional WOUS feature is summarized in the table below:

Table 1: Potential WOUS Summary Table

Feature ID	GPS Coordinates (decimal degrees)	Approximate Acreage	Approximate Square Footage	Approximate Linear Feet (if applicable)
Wetland 1 (Potentially Non-Jurisdictional Isolated Wetland)	30.152107°, -91.951974°	0.03	1307	N/A
Stream 1	30.153765°, -91.953106°	>0.01	435	7

3.2.1 Wetland Summary

The potentially non-jurisdictional isolated wetland observed within the PSA exhibited wetland indicators of hydrophytic vegetation, wetland hydrology, and hydric soils during the site reconnaissance. The wetland area and data point location is depicted on the Waters of the U.S. Delineation Map (Appendix I, Figure 7). Photographs of the wetland is presented in Appendix II.

The emergent wetland observed within the PSA (DP1) is approximately 0.03 acre. The wetland observed was dominated by herbaceous species including blunt spike-rush (*Eleocharis obtusa*), white clover (*Trifolium repens*), and spotted crane's-bill (*Geranium maculatum*). Indicators of wetland hydrology observed included surface water (A1) and saturation (A3), and geomorphic position (D2). The hydric soil indicator for depleted matrix (F3) was met at the sampling point.

3.2.2 Stream Summary

A potentially jurisdictional stream (non-wetland WOUS) feature was observed within the northwest corner of the PSA. The potential stream feature consisted of approximately 0.01 acre and 57 linear feet (LF) within the PSA boundary. All WOUS features had well-defined bed and bank features and exhibited an Ordinary High Water Mark (OHWM). The feature was also observed to contain flowing water (potentially perennial), standing water/very low flow-rates (potentially intermittent), or



exhibited evidence of periodic conveyance of surface flows through a defined channel followed by prolonged periods of drying (ephemeral). The streams are depicted on the Waters of the U.S. Delineation Map (Appendix I, Figure 7). Photographs of the stream is presented in Appendix II.

4.0 REGULATORY DISCUSSION

After review of the findings in the report and at the client's request, ECS can coordinate with the USACE to acquire a jurisdictional determination and conduct a field visit, if necessary. The timeline of this process is dependent on the availability of the regulatory agency. ECS recommends receipt of the formal jurisdictional determination letter from the necessary agencies prior to conducting any land-disturbance activities.

The WOUS are regulated by Sections 401 and 404 of the Clean Water Act. State and Federal law dictates that any disturbance to WOUS must be permitted through the appropriate agencies. If any potential impacts are proposed, we can assist you with permitting options and support to complete the process. As part of the permitting process, we will conduct a preliminary review of state and federal agency records pertaining to Section 7 (Federal Endangered Species Act) and Section 106 (National Historic Preservation Act). If deemed necessary, we can assist you with targeted species surveys or cultural investigations to satisfy the requirements of the Nationwide Permit (NWP), Individual Permit (IP), or General Permit conditions.

Section 404 of the Clean Water Act regulates the discharge of dredge and fill materials into waters of the United States (lakes, rivers, ponds, streams, etc.), including wetlands. Waters of the United States include territorial seas, navigable coastal and inland lakes, rivers, perennial streams, intermittent streams, and wetlands. The EPA and the U.S. Army Corps of Engineers jointly administer the Section 404 program. Section 401 of the Clean Water Act grants each state the authority to approve, condition, or deny any Federal permits that could result in a discharge to State waters.

Streams, ponds, and wetlands are regulated by the USACE. Permits are required prior to impacting wetlands or open waters, including ponds, lakes, and perennial or intermittent streams. Mitigation and storm-water management plans may be a condition of permits issued for the PSA. Buffers may be required adjacent to streams and water bodies.

For impacts to 0.5 acre or more of wetlands/waters an individual permit (IP) may be required.

An IP requires a habitat analysis, alternative site analysis, project justification, plans to avoid and minimize impacts, and a proposed mitigation plan. Depending on the habitat analysis and the extent of impacts, an Environmental Impact Statement may be required by the USACE. An IP allows for a public comment period and may require six to 18 months to obtain depending on conditions arising during the USACE review and public comment period.

5.0 WATERSHED CLASSIFICATION/BUFFER REQUIREMENTS

5.1 State Riparian Buffer Requirements

According to the Louisiana Department of Environmental Quality (LDEQ), the PSA occurs in the La Salle Coulee-Bayou Tortue Watershed. To ECS' knowledge, there are no known state-mandated riparian buffer requirements to warrant the protection of adjacent wetlands and riparian areas



beyond the limits of construction. However, it is recommended by LDEQ that best management practices outlined in LDEQ's Storm-water Construction General Permit guidelines be employed during construction activities to limit downstream translocation of sediment into adjacent wetlands and riparian areas.

5.2 Local Buffer Requirements

According to the Lafayette Parish Planning Department, there are no additional riparian buffer requirements from streams, wetlands, and/or other surface waters in addition to the state recommended practices for general construction and storm-water management.

ECS recommends consultation with a civil engineer to determine if mandatory vegetative buffers and/ or regulated development (impervious surfaces) setbacks are required for the site in addition to those mentioned above.

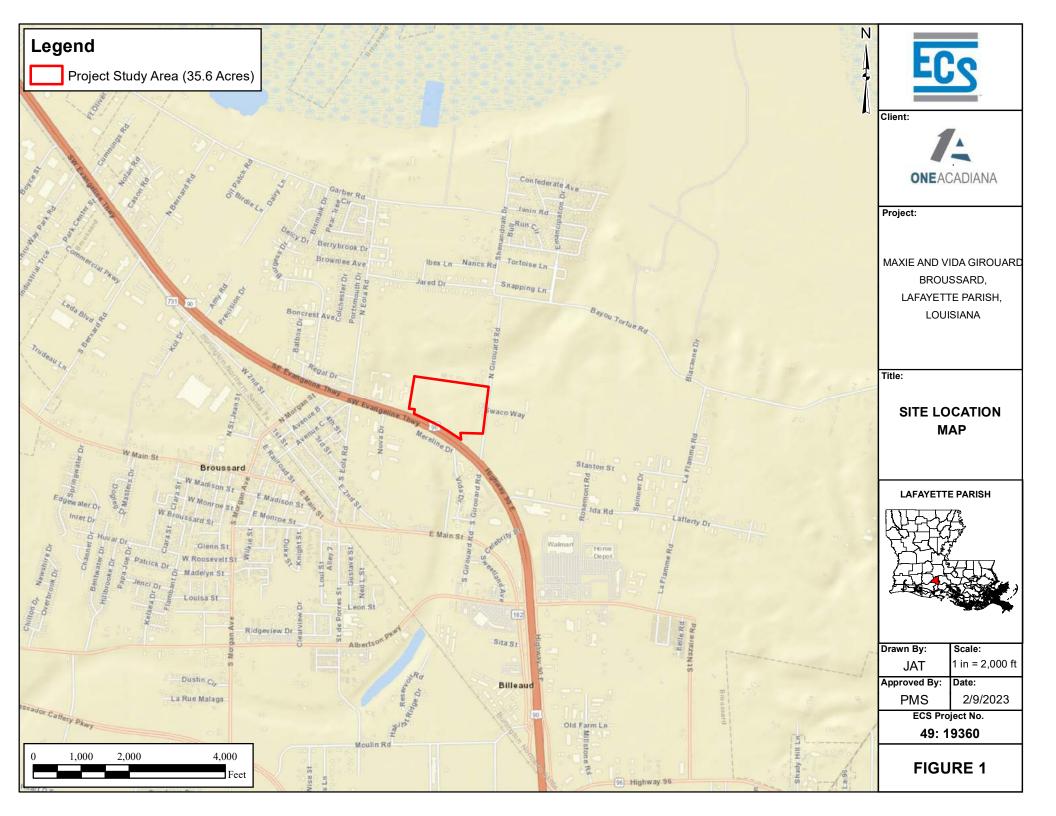
6.0 CONCLUSIONS

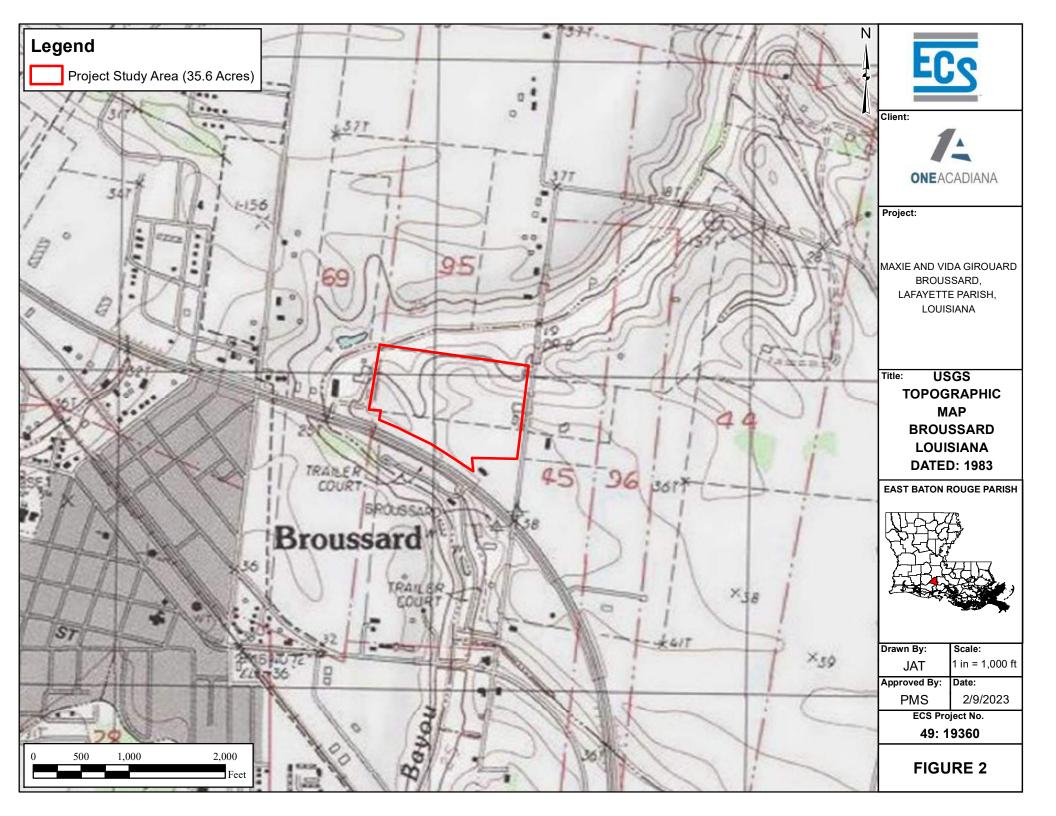
One potentially non-jurisdictional isolated wetland feature totaling approximately 0.03 acre and one potential non-wetland WOUS feature totaling approximately 57 LF (>0.01 acre) were identified and delineated within the PSA. The location and boundaries of both the isolated wetland and non-wetland features are illustrated on the attached Wetland Delineation Map (Appendix I, Figure 7).

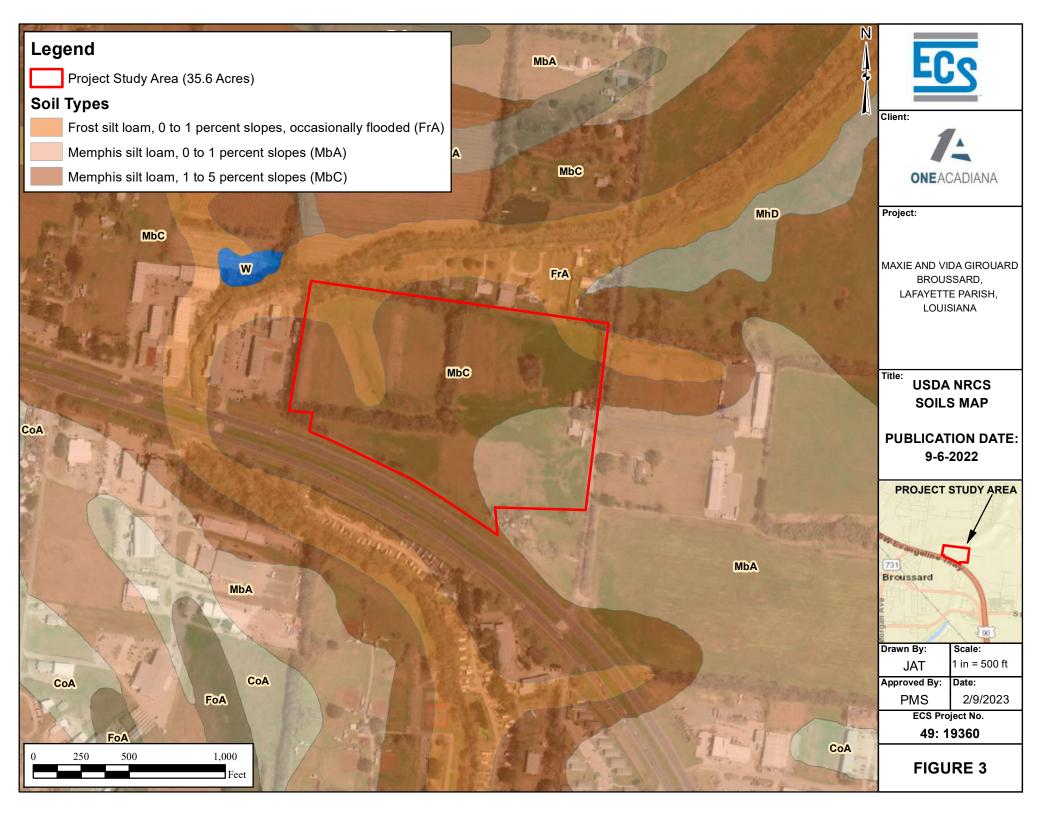
The boundaries of the wetland is subject to change during the jurisdictional determination meeting with the USACE. ECS cannot guarantee that field conditions and/or WOUS boundaries will not change over time.

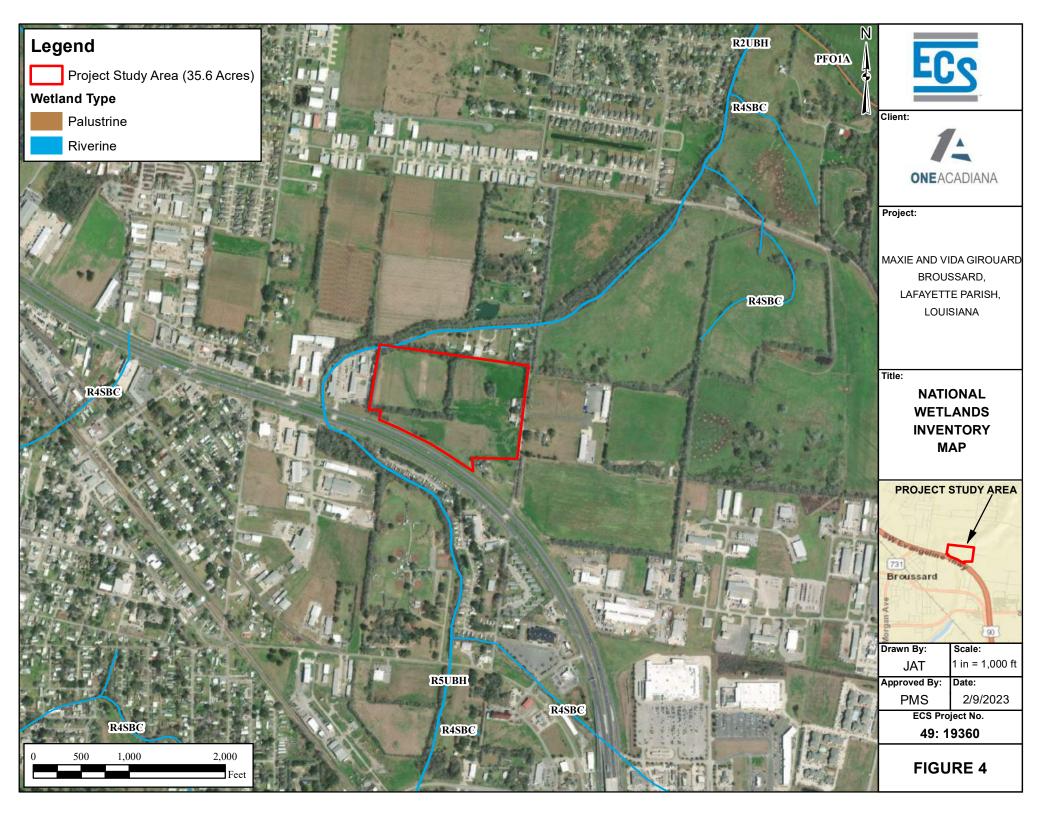


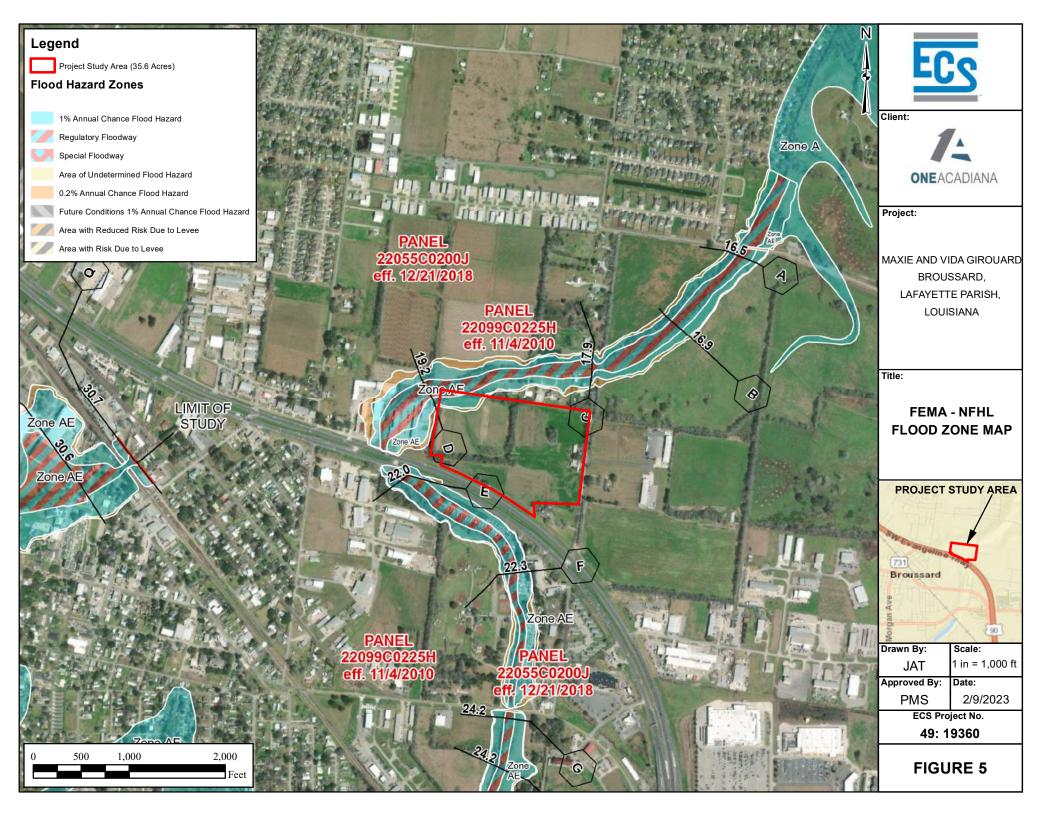
Appendix I: Figures

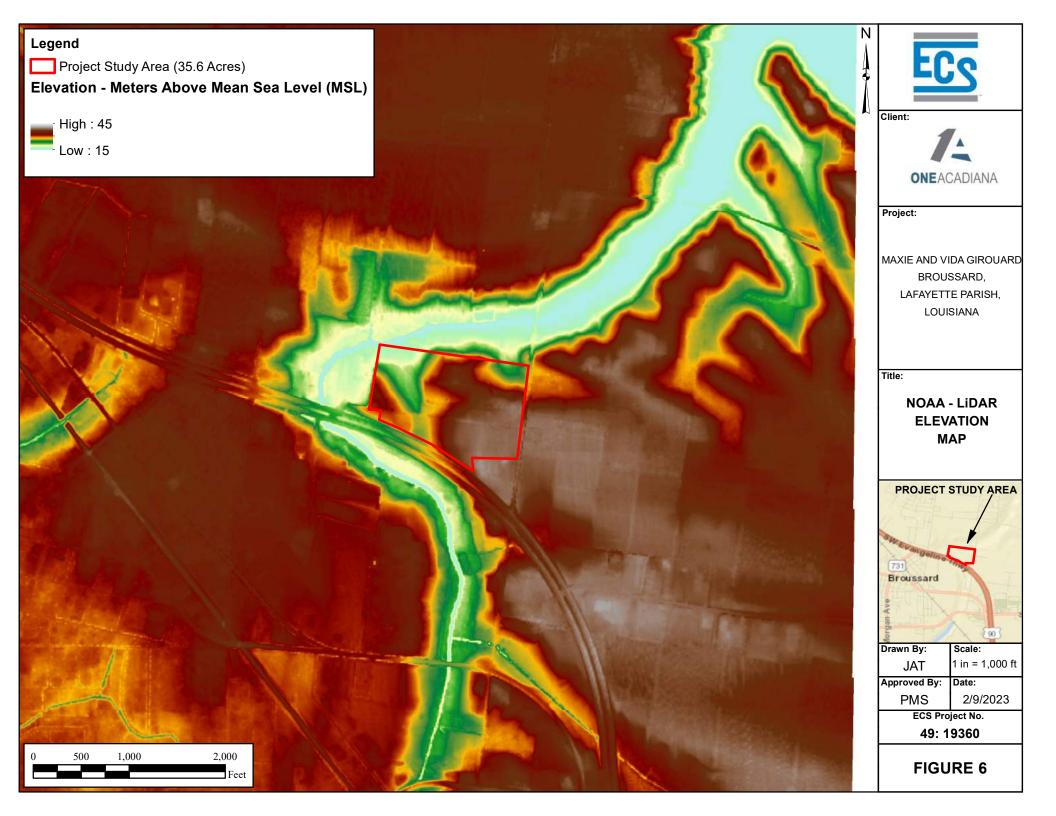


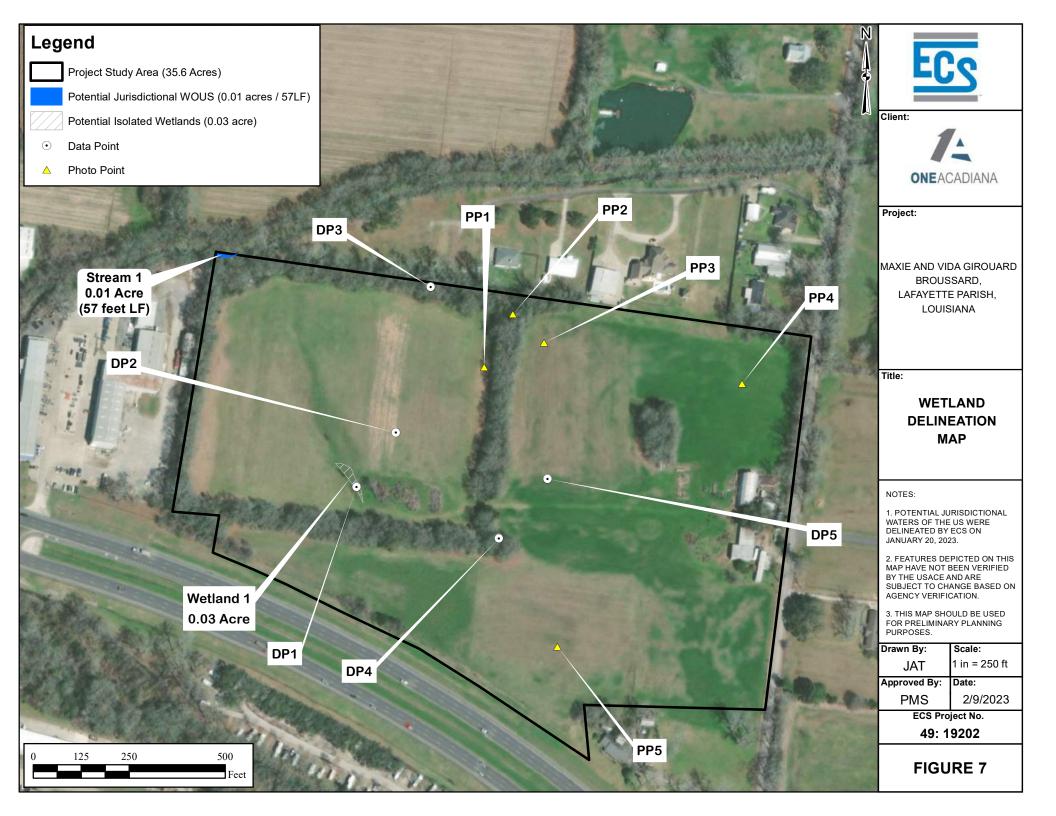
















1 - Photo 1: Soil profile at DP1.



2 - Photo 2: Overview at DP1 facing north.



3 - Photo 3: Overview at DP1 facing east.



4 - Photo 4: Overview at DP1 facing south.



5 - Photo 5: Overview at DP1 facing west.



6 - Photo 6: Soil profile at DP2.



7 - Photo 7: Overview at DP2 facing north.



8 - Photo 8: Overview at DP2 facing east.



9 - Photo 9: Overview at DP2 facing south.



10 - Photo 10: Overview at DP2 facing west.



11 - Photo 11: Soil profile at DP3.



12 - Photo 12: Overview at DP3 facing north.



13 - Photo 13: Overview at DP3 facing east.



14 - Photo 14: Overview at DP3 facing south.



15 - Photo 15: Overview at DP3 facing west.



16 - Photo 16: Soil profile at DP4.



17 - Photo 17: Overview at DP4 facing north.



18 - Photo 18: Overview at DP4 facing east.



19 - Photo 19: Overview at DP4 facing south.



20 - Photo 20: Overview at DP4 facing west.



21 - Photo 21 : Overview at PP1 facing north.



22 - Photo 22 : Overview at PP1 facing east.



23 - Photo 23 : Overview at PP1 facing south.



24 - Photo 24 : Overview at PP1 facing east.



25 - Photo 25 : Overview at PP2 facing north.



26 - Photo 26 : Overview at PP2 facing east.



27 - Photo 27 : Overview at PP2 facing south.



28 - Photo 28 : Overview at PP2 facing west.



29 - Photo 29 : Overview at PP3 facing north.



30 - Photo 30 : Overview at PP3 facing east.



31 - Photo 31 : Overview at PP3 facing south.



32 - Photo 32 : Overview at PP3 facing west.



33 - Photo 33 : Overview at PP4 facing north.



34 - Photo 34 : Overview at PP4 facing east.



35 - Photo 35 : Overview at PP4 facing south.



36 - Photo 36 : Overview at PP4 facing west.



37 - Photo 37 : Overview at PP5 facing north.



38 - Photo 38 : Overview at PP5 facing east.



39 - Photo 39: Overview at PP5 facing south.



40 - Photo 40 : Overview at PP5 facing west.



41 - Photo 41: Stream 1, northwest section of PSA facing north.



42 - Photo 42: Stream 1, northwest section of PSA facing northeast.



43 - Photo 31: Stream 1, northwest section of PSA facing northwest.

Appendix III: USACE Wetland Data Forms and Stream Data Forms

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R

Project/Site: Maxie and Vida Girouard Site	City/Cour	nty: Broussard, Lafayette Parish	Sampling Date: 1/20/2023
Applicant/Owner: CSRS, Inc		State: LA	Sampling Point: DP1
Investigator(s): Jay Thibodeaux (PWS)	Section, Towr	nship, Range: S36, T9S, R5E	<u> </u>
Landform (hillside, terrace, etc.): Toe of SI		cave, convex, none): Concave	Slope (%): 0-1
Subregion (LRR or MLRA): LRR P, MLRA		Long: -91.951974	Datum: NAD83
Soil Map Unit Name: Frost silt loam, 0 to 1			
Are climatic / hydrologic conditions on the si	e typical for this time of year?	Yes X No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydro	*,	Are "Normal Circumstances" present	
Are Vegetation , Soil , or Hydro		(If needed, explain any answers in Re	
SUMMARY OF FINDINGS – Attacl			
Hydrophytic Vegetation Present?	Yes X No Is the Sa	mpled Area	
Hydric Soil Present?		Wetland? Yes X	No
Wetland Hydrology Present?	Yes X No		
Remarks:			
HYDROLOGY			
		Cdaw. Indicators	/ Interview of these magnified)
Wetland Hydrology Indicators:	end about all that apply)	·	(minimum of two required)
Primary Indicators (minimum of one is requ		Surface Soil Crac	
X Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
X Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (C1) Ovidized Bhizospheres on Living F	Moss Trim Lines	
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres on Living F Presence of Reduced Iron (C4)	Roots (C3) Dry-Season Wate Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled So		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Posi	=
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	, ,
Inundation Visible on Aerial Imagery (B		FAC-Neutral Test	
Water-Stained Leaves (B9)	7)	Sphagnum Moss	,
Field Observations:			(DO) (LIIII 1, 0,
Surface Water Present? Yes X	No Depth (inches): 1		
	No X Depth (inches):		
Saturation Present? Yes X	No Depth (inches): 0	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)	140 Dopan (money)	Welland Hydrology 1 1000	165 <u>/</u>
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous ins	spections). if available:	
	y	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Remarks:			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP1 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30-ft Radius) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. Total Number of Dominant Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 33.3% (A/B) 7. Prevalence Index worksheet: Total % Cover of: Multiply by: =Total Cover **OBL** species x 1 = 50% of total cover: 20% of total cover: **FACW** species 15 x 2 = Sapling/Shrub Stratum (Plot size: 30-ft Radius) 10 FAC species x 3 = 30 x 4 = FACU species 120 1. UPL species 0 0 2. x 5 = 3. Column Totals: 85 (A) 210 (B) Prevalence Index = B/A = 2.47 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.01 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 30-ft Radius) Eleocharis obtusa 20 OBL 1. Yes ¹Indicators of hydric soil and wetland hydrology must be Trifolium repens 2. 15 Yes **FACU** present, unless disturbed or problematic. Geranium maculatum 3. 15 Yes **FACU Definitions of Four Vegetation Strata:** 10 4. Rumex crispus No FAC Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of **FACW** 5. Persicaria lapathifolia 10 No height. 10 OBL 6. Sagittaria platyphylla No 7. Andropogon glomeratus 5 No FACW Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 85 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 43 Woody Vine Stratum (Plot size: 30-ft Radius) 3. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (If observed, list morphological adaptations below.)

	ription: (Describe t	o the dept				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix	0/			Redox Features noist) % Type ¹ Loc ²		Toytura	Domouleo			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹		Texture	Remarks			
0-8	10YR 4/2	95	10YR 5/6	5	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations			
8-18	10YR 3/1	100					Loamy/Clayey				
1Tunor C. Co			Daduaad Matrix N		Lead Con		² l coation.	DI Dava Lining M Matrix			
	ncentration, D=Deple Indicators: (Application					Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :			
Histosol		ole to all L	Thin Dark Su			S. T. U)		luck (A9) (LRR O)			
	pipedon (A2)		Barrier Island	,	, ,			luck (A10) (LRR S)			
Black His	. ,		(MLRA 15		,	,		Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck		•	RR O)		ide MLRA 150A)			
	Layers (A5)		Loamy Gleye	-			Reduce	ed Vertic (F18)			
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3))		(outs	ide MLRA 150A, 150B)			
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)			ont Floodplain Soils (F19) (LRR P, T)			
	esence (A8) (LRR U)		Depleted Da		` '			ous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre		(F8)		(MLRA 153B)				
	Below Dark Surface	(A11)	Marl (F10) (L		4) (14) D		Red Parent Material (F21)				
	rk Surface (A12)	L DA 150A)	Depleted Oc				Very Shallow Dark Surface (F22) D, P, T) (outside MLRA 138, 152A in FL, 154)				
	airie Redox (A16) (M lucky Mineral (S1) (L l		Iron-Mangan Umbric Surfa					Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	111 0, 3)	Delta Ochric					RA 153B, 153D)			
	edox (S5)		Reduced Ve				•	Explain in Remarks)			
	Matrix (S6)		Piedmont Flo					,			
	face (S7) (LRR P, S,	T, U)	Anomalous E	-							
Polyvalue	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicat	ors of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unles	ss disturbed or problematic.			
Restrictive L	ayer (if observed):										
Type:											
Depth (in	nches):						Hydric Soil Prese	ent? Yes X No No			
Remarks:											

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R

Project/Site: Maxie and Vida Girouard Site		City/County: Broussard	d, Lafayette Parish	Sampling Date: 1/20/2023
Applicant/Owner: CSRS, Inc			State: LA	Sampling Point: DP2
Investigator(s): Jay Thibodeaux (PWS)	Sec ⁴	tion, Township, Range:	S36, T9S, R5E	
Landform (hillside, terrace, etc.): Terrace		relief (concave, convex,		Slope (%): 1-5
Subregion (LRR or MLRA): LRR P, MLRA 13			91.951654	Datum: NAD83
Soil Map Unit Name: Memphis silt loam, 1 to			NWI classifica	
Are climatic / hydrologic conditions on the site	e typical for this time of year?	Yes X	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrol	• • • • • • • • • • • • • • • • • • • •		circumstances" present	
Are Vegetation, Soil, or Hydrol			plain any answers in Re	
SUMMARY OF FINDINGS – Attach			•	,
Hydrophytic Vegetation Present?	Yes No_X_	Is the Sampled Area		
		within a Wetland?	Yes	No X
	Yes No X			
HYDROLOGY				
Wetland Hydrology Indicators:				(minimum of two required)
Primary Indicators (minimum of one is requir			Surface Soil Crac	
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRI		Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (0		Moss Trim Lines (
Water Marks (B1)	Oxidized Rhizospheres of		Dry-Season Wate	
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in	I Tilled Solls (Co)		on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remark	lsa\	Geomorphic Position Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7		(8)	FAC-Neutral Test	` '
Water-Stained Leaves (B9))		Sphagnum Moss	
Field Observations:			Opig	(50) (2, 5)
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches):		Hydrology Present?	Yes No X
(includes capillary fringe)	<u> </u>		,	
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pr	evious inspections), if a	vailable:	
Remarks:				

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP2 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30-ft Radius) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. Total Number of Dominant Species Across All Strata: 2 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) 7. Prevalence Index worksheet: Total % Cover of: Multiply by: =Total Cover **OBL** species x 1 = 50% of total cover: 20% of total cover: **FACW** species x 2 = Sapling/Shrub Stratum (Plot size: 30-ft Radius) 25 x 3 = FAC species 75 80 x 4 = FACU species 320 1. UPL species 0 x 5 = 0 2. Column Totals: 3. 105 395 (A) (B) Prevalence Index = B/A = 3.76 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 30-ft Radius) Paspalum notatum 40 Yes **FACU** 1. ¹Indicators of hydric soil and wetland hydrology must be 2. Geranium maculatum 20 Yes **FACU** present, unless disturbed or problematic. 3. Plantago rugelii 15 No **FACU Definitions of Four Vegetation Strata:** 15 4. Rumex crispus No FAC Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. Rubus argutus 10 Nο FAC height. 5 **FACU** 6. Solidago altissima No 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 105 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 53 Woody Vine Stratum (Plot size: 30-ft Radius) 3. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No X Remarks: (If observed, list morphological adaptations below.)

Depth	Matrix		th needed to docu Redo:	x Featur	es							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	_	Remark	(S		
0-18	10YR 3/3	100					Loamy/Clayey					
0.10	101110/0						<u> Loamy Glayby</u>					
1 _{Type:} C. Ce	ncentration, D=Deple	tion DM	Paduaad Matrix A				² l coation	· DI Bor	o Lining M. Mot	reix		
	ndicators: (Applicab					diams.			e Lining, M=Mat blematic Hydri			
Histosol (ie to all L	Thin Dark Su			S T II)) (LRR O)	C 30113 .		
	pedon (A2)		Barrier Island						10) (LRR S)			
Black His			(MLRA 15			12)			Redox (A16)			
	Sulfide (A4)		Loamy Muck			.RR O)			RA 150A)			
	Layers (A5)		Loamy Gleye	•	` ' '	,	•	ced Verti	•			
	Bodies (A6) (LRR P, 1	Γ, U)	Depleted Ma						RA 150A, 150B)		
	cky Mineral (A7) (LRF		Redox Dark	Surface	(F6)		Piedr	mont Floo	dplain Soils (F1	9) (LRR P, T)		
Muck Pre	sence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)					
1 cm Muc	k (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)					
Depleted	Below Dark Surface	(A11)	Marl (F10) (I	Marl (F10) (LRR U)				Red Parent Material (F21)				
Thick Dar	k Surface (A12)		Depleted Oc	Depleted Ochric (F11) (MLRA 151)				Shallow [Dark Surface (F2	22)		
Coast Pra	airie Redox (A16) (ML	-RA 150A)Iron-Mangan	iese Ma	sses (F1	2) (LRR (O, P, T) (ou	tside ML	RA 138, 152A i	n FL, 154)		
Sandy Mu	ucky Mineral (S1) (LF	IR O, S)	Umbric Surfa	ace (F13) (LRR F	P, T, U)	Barri	er Islands	Low Chroma M	atrix (TS7)		
Sandy Gle	eyed Matrix (S4)		Delta Ochric	(F17) (I	ILRA 15	51)	(MI	_RA 153E	3, 153D)			
Sandy Re			Reduced Ve	•	, ,			r (Explain	in Remarks)			
	Matrix (S6)		Piedmont Flo	•	`	, •	•					
	ace (S7) (LRR P, S,	T, U)	Anomalous I	-								
	Below Surface (S8)		(MLRA 14				³ Indicators of hydrophytic vegetation and					
(LRR S	i, I, U)		Very Shallov				wetland hydrology must be present, unless disturbed or problematic.					
			(MLRA 13	8, 152A	in FL, is	54)	un	iess distu	rbed or problem	alic.		
	ayer (if observed):											
Type:								_				
Depth (inc	ches):						Hydric Soil Pre	sent?	Yes	No X		

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R

Project/Site: Maxie and Vida Girouard Site		City/County: Broussard	d, Lafayette Parish	Sampling Date: 1/20/2023
Applicant/Owner: CSRS, Inc			State: LA	Sampling Point: DP3
Investigator(s): Jay Thibodeaux (PWS)	Sect	tion, Township, Range:	S36, T9S, R5E	<u> </u>
Landform (hillside, terrace, etc.): N/A		relief (concave, convex,		Slope (%): 1-5
Subregion (LRR or MLRA): LRR P, MLRA 1	•		91.951372	Datum: NAD83
Soil Map Unit Name: Memphis silt loam, 1 to			NWI classifica	
Are climatic / hydrologic conditions on the sit	*,	Yes X		explain in Remarks.)
Are Vegetation, Soil, or Hydro			Circumstances" present	
Are Vegetation, Soil, or Hydro	logy naturally problema	tic? (If needed, exp	plain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach	ı site map showing sam	npling point location	ons, transects, im	nportant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area		
Hydric Soil Present?		within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes No X			
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				(minimum of two required)
Primary Indicators (minimum of one is requi			Surface Soil Crac	
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRI		Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (0		Moss Trim Lines (
Water Marks (B1)	Oxidized Rhizospheres o	= : :	Dry-Season Wate	
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remark	KS)	Shallow Aquitard	• •
Inundation Visible on Aerial Imagery (B	7)		FAC-Neutral Test	
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)
Field Observations:	N V Deveth (inches)			
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):		II des la ma Dessanto	V Ne V
Saturation Present? Yes	No X Depth (inches):	Wetiana i	Hydrology Present?	Yes No_X_
(includes capillary fringe)		i inapactions) if a	··-!labla.	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial priotos, pre	evious inspections), ii a	vailable:	
Remarks:				
11011.2.1.5.				

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP3 Absolute Dominant Indicator Tree Stratum (Plot size: 30-ft Radius) % Cover Species? Status **Dominance Test worksheet:** Quercus nigra 1. 25 Yes FAC **Number of Dominant Species** Ulmus americana 5 FAC 2. No That Are OBL, FACW, or FAC: (A) 3. Total Number of Dominant Species Across All Strata: 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) 7. Prevalence Index worksheet: Total % Cover of: Multiply by: 30 =Total Cover **OBL** species x 1 = 50% of total cover: **FACW** species 5 20% of total cover: x 2 = 10 Sapling/Shrub Stratum (Plot size: 30-ft Radius) FAC species 120 360 x 3 = 0 Ligustrum sinense FAC **FACU** species x 4 = 45 Yes Ligustrum japonicum 20 FAC 0 2. Yes UPL species x 5 = 0 Column Totals: 3. 130 375 (B) (A) 4. Prevalence Index = B/A = 2.88 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 65 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 30-ft Radius) Rubus argutus FAC 1. 20 Yes ¹Indicators of hydric soil and wetland hydrology must be 2. Sabal minor 5 Nο **FACW** present, unless disturbed or problematic. 3. Carex frankii 5 No OBL **Definitions of Four Vegetation Strata:** 5 4. Rumex crispus No FAC Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5. more in diameter at breast height (DBH), regardless of height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless 11. of size, and woody plants less than 3.28 ft tall. 35 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 18 Woody Vine Stratum (Plot size: 30-ft Radius) 3. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Yes X Remarks: (If observed, list morphological adaptations below.)

Depth	cription: (Describe to Matrix	io tile dep		x Featur		ator or co	ommin the absence	of mulcators.			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	emarks		
0-3	10YR 3/2	100					Loamy/Clayey				
3-18	10YR 3/3	100					Loamy/Clayey	Loamy/Clavey			
0 10	101110/0	100					Louiny, Glaycy				
								. 			
							,				
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.	² Location:	PL=Pore Lining, M	=Matrix.		
-	Indicators: (Applica	ble to all						for Problematic H	-		
Histosol			Thin Dark Su					Muck (A9) (LRR O)			
	pipedon (A2)		Barrier Island			12)		Muck (A10) (LRR S			
Black Hi	` '		(MLRA 15					Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	•	· / •	.RR O)	•	side MLRA 150A)			
	Layers (A5)		Loamy Gleye		. ,			ced Vertic (F18)			
	Bodies (A6) (LRR P,		Depleted Ma	` ′			•	side MLRA 150A,	•		
	icky Mineral (A7) (LR				` '		Piedmont Floodplain Soils (F19) (LRR P, 7				
	esence (A8) (LRR U))	Depleted Da				Anomalous Bright Floodplain Soils (F20) (MLRA 153B)				
	ick (A9) (LRR P, T)	· / / 1 1 \	Redox Depre		(ГО)		Red Parent Material (F21)				
	d Below Dark Surface ark Surface (A12)	; (A11)		Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)				Shallow Dark Surfac			
	rairie Redox (A16) (M	II RA 150						side MLRA 138, 15			
	lucky Mineral (S1) (L		Umbric Surfa					r Islands Low Chror			
	ileyed Matrix (S4)	0, 0,	Delta Ochric					RA 153B, 153D)	iia watiix (137)		
	ledox (S5)		Reduced Ve					(Explain in Remark	s)		
	Matrix (S6)		Piedmont Flo	•	, .	-		(Explain in Homain	3)		
	rface (S7) (LRR P, S	. T. U)	Anomalous I	•	,	, .	•				
	e Below Surface (S8		(MLRA 14	-	-			ators of hydrophytic	vegetation and		
	S, T, U)	,	Very Shallov				wetland hydrology must be present,				
•			(MLRA 13				unless disturbed or problematic.				
Restrictive I	Layer (if observed):										
Type:											
Depth (ir	nches):						Hydric Soil Pres	ent? Yes_	No X		
Remarks:							l				

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R

Project/Site: Maxie and Vida Girouard Site	Ci	ity/County: Broussard	l, Lafayette Parish	Sampling Date: 1/20/2023
Applicant/Owner: CSRS, Inc			State: LA	Sampling Point: DP4
Investigator(s): Jay Thibodeaux (PWS)	Section	n, Township, Range:	S36, T9S, R5E	
Landform (hillside, terrace, etc.): N/A		ef (concave, convex,	,	Slope (%): 1-5
Subregion (LRR or MLRA): LRR P, MLRA 1			91.950799	Datum: NAD83
Soil Map Unit Name: Memphis silt loam, 1 t			NWI classifica	
		Voc. Y		
Are Viggetation Soil or Hydrologic conditions on the sit	• •	Yes X		explain in Remarks.)
Are Vegetation, Soil, or Hydro			ircumstances" present	
Are Vegetation, Soil, or Hydro	' 		olain any answers in Re	,
SUMMARY OF FINDINGS – Attach	site map showing samp	ling point location	ons, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes X No Is	the Sampled Area		
Hydric Soil Present?		ithin a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes No X			
Remarks:				
LIVEROL COV				
HYDROLOGY				
Wetland Hydrology Indicators:	the state of the s			(minimum of two required)
Primary Indicators (minimum of one is requ			Surface Soil Crac	
Surface Water (A1)	Aquatic Fauna (B13)	ı ıs		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR L		Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)		Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres on I		Dry-Season Water	
Sediment Deposits (B2)	Presence of Reduced Iron (Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Ti	illea Solis (Co)		on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remarks)		Geomorphic Position Shallow Aquitard	, ,
Inundation Visible on Aerial Imagery (B				` '
Water-Stained Leaves (B9)	7)		FAC-Neutral Test Sphagnum Moss	
Field Observations:		<u> </u>	Opriagrium woss	(50) (EIIII 1, 0)
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches):	Wetland I	Hydrology Present?	Yes No X
(includes capillary fringe)	20 <u>X</u> Beptil (mones).		riyarology r reseme.	103 <u> </u>
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previ	ious inspections), if a	vailable:	
		,,,		
Remarks:				
İ				

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP4 Absolute Dominant Indicator Tree Stratum (Plot size: 30-ft Radius) % Cover Species? Status **Dominance Test worksheet:** Quercus nigra 1. 25 Yes FAC **Number of Dominant Species** Ulmus americana 5 FAC 2. No That Are OBL, FACW, or FAC: (A) 3. Total Number of Dominant Species Across All Strata: 4. (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) 7. Prevalence Index worksheet: Total % Cover of: Multiply by: 30 =Total Cover **OBL** species x 1 = 50% of total cover: **FACW** species 5 20% of total cover: x 2 = 10 Sapling/Shrub Stratum (Plot size: 30-ft Radius) FAC species 120 360 x 3 = 0 Ligustrum sinense FAC **FACU** species x 4 = 45 Yes Ligustrum japonicum 20 FAC 0 2. Yes UPL species x 5 = 0 Column Totals: 3. 130 375 (B) (A) 4. Prevalence Index = B/A = 2.88 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 65 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 30-ft Radius) Rubus argutus FAC 1. 20 Yes ¹Indicators of hydric soil and wetland hydrology must be 2. Sabal minor 5 Nο **FACW** present, unless disturbed or problematic. 3. Carex frankii 5 No OBL **Definitions of Four Vegetation Strata:** 5 4. Rumex crispus No FAC Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5. more in diameter at breast height (DBH), regardless of height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless 11. of size, and woody plants less than 3.28 ft tall. 35 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 18 Woody Vine Stratum (Plot size: 30-ft Radius) 3. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Yes X Remarks: (If observed, list morphological adaptations below.)

	Matrix	•	Redo	x Featur	es		onfirm the absence	•			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-3	10YR 3/2	100					Loamy/Clayey				
3-18	10YR 3/3	100					Loamy/Clayey				
3-10	1010 3/3	100					Loanly/Glayey				
						<u> </u>					
¹ Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil In	ndicators: (Applica	ble to all	LRRs, unless othe	erwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :			
Histosol ((A1)		Thin Dark Su				1 cm N	Muck (A9) (LRR O)			
	ipedon (A2)		Barrier Islan			12)		Muck (A10) (LRR S)			
Black His	` '		(MLRA 15					Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck	•	· , •	RR O)	•	side MLRA 150A)			
	Layers (A5)		Loamy Gleye					ed Vertic (F18)			
	Bodies (A6) (LRR P,		Depleted Ma	` '			•	side MLRA 150A, 150B)			
	cky Mineral (A7) (LR				` '		Piedmont Floodplain Soils (F19) (LRR P, 7				
	esence (A8) (LRR U)		Depleted Da				Anomalous Bright Floodplain Soils (F20) (MLRA 153B)				
	ck (A9) (LRR P, T) Below Dark Surface	(Δ11)		Redox Depressions (F8) Marl (F10) (LRR U)				arent Material (F21)			
	rk Surface (A12)	(Д11)	Depleted Oc		1) (MI R	151)		Shallow Dark Surface (F22)			
	airie Redox (A16) (M	I BA 1504						side MLRA 138, 152A in FL, 154)			
	ucky Mineral (S1) (L		Umbric Surfa					r Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	- · · · · · · · · · · · · · · · · · · ·	Delta Ochric					RA 153B, 153D)			
	edox (S5)		Reduced Ve					(Explain in Remarks)			
	Matrix (S6)		Piedmont Fl	oodplain	Soils (F	19) (MLR		,			
		, T, U)	Anomalous I	Bright Fl	oodplain	Soils (F2	(0)				
Dark Surf	face (S7) (LRR P, S,			9A, 153	C, 153D)		³ Indica	tors of hydrophytic vegetation and			
		Polyvalue Below Surface (S8)		Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
	e Below Surface (S8))		v Dark S	urtace (F	-22)	Well	and hydrology must be present,			
Polyvalue	e Below Surface (S8))						ess disturbed or problematic.			
Polyvalue (LRR S	e Below Surface (S8)		Very Shallov								
Polyvalue (LRR S	e Below Surface (S8) S, T, U)		Very Shallov								
Polyvalue (LRR S	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov					ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
Polyvalue (LRR S Restrictive L Type: Depth (inc	e Below Surface (S8) S, T, U) .ayer (if observed):		Very Shallov				unle	ess disturbed or problematic.			
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WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

See ERDC/EL TR-10-20; the proponent agency is CECW-CO-R

Project/Site: Maxie and Vida Girouard Site		City/County: Broussard	d, Lafayette Parish	Sampling Date: 1/20/2023
Applicant/Owner: CSRS, Inc		· _	State: LA	Sampling Point: DP5
Investigator(s): Jay Thibodeaux (PWS)	Sec	tion, Township, Range:	S36, T9S, R5E	<u> </u>
Landform (hillside, terrace, etc.): N/A		relief (concave, convex,		Slope (%): 1-5
Subregion (LRR or MLRA): LRR P, MLRA 13			91.950401	Datum: NAD83
Soil Map Unit Name: Memphis silt loam, 1 to		Long.	NWI classifica	
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)
Are Vegetation, Soil, or Hydrol	**		Circumstances" present	
Are Vegetation, Soil, or Hydrol			plain any answers in Re	
SUMMARY OF FINDINGS – Attach				,
Hydrophytic Vegetation Present?	YesNo_X	Is the Sampled Area		
		within a Wetland?	Yes	No X
	Yes No X			<u> </u>
Remarks:				
				1
				1
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	red; check all that apply)		Surface Soil Crac	
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LR	RU)	Drainage Patterns	s (B10)
Saturation (A3)	Hydrogen Sulfide Odor ((C1)	Moss Trim Lines ((B16)
Water Marks (B1)	Oxidized Rhizospheres of	on Living Roots (C3)	Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iro	on (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in			e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remark	ks)	Shallow Aquitard	, ,
Inundation Visible on Aerial Imagery (B7	['])		FAC-Neutral Test	i (D5)
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches):	Wetland	Hydrology Present?	Yes No_X_
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pr	evious inspections), if a	vailable:	
Remarks:				
nemarks.				

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: DP5 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30-ft Radius) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** That Are OBL, FACW, or FAC: 2. (A) 3. Total Number of Dominant Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) 7. Prevalence Index worksheet: Total % Cover of: Multiply by: =Total Cover **OBL** species x 1 = 50% of total cover: 20% of total cover: **FACW** species x 2 = Sapling/Shrub Stratum (Plot size: 30-ft Radius) 10 x 3 = FAC species 105 x 4 = FACU species 420 1. UPL species 0 x 5 = 0 2. Column Totals: (B) 3. 115 450 (A) Prevalence Index = B/A = 3.91 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 30-ft Radius) Lolium perenne 50 Yes **FACU** ¹Indicators of hydric soil and wetland hydrology must be 2 Geranium maculatum 30 Yes **FACU** present, unless disturbed or problematic. 3. Trifolium repens 25 Yes **FACU Definitions of Four Vegetation Strata:** 10 4. Rumex crispus No FAC Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5. more in diameter at breast height (DBH), regardless of height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 115 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 58 Woody Vine Stratum (Plot size: 30-ft Radius) 3. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No X Remarks: (If observed, list morphological adaptations below.)

	ription: (Describe t	o the depth				ator or co	onfirm the absence	of indic	ators.)			
Depth	Matrix			Featur		Touture		D				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	iarks		
0-18	10YR 2/2	100					Loamy/Clayey					
17	D. D. D.	tion DM F	Name and Matrice Re				21 11	DI D	Linia NA I	A de Austre		
	ncentration, D=Deple ndicators: (Applicat					Grains.			Lining, M=I	dric Soils ³ :		
Histosol		ole to all Lr	Thin Dark Su			e T II\) (LRR O)	uric Solis :		
	pipedon (A2)	·	Barrier Island	•	, ,				0) (LRR S)			
Black His		·	(MLRA 15		•	12)			edox (A16)			
	n Sulfide (A4)		Loamy Muck			DD ()			RA 150A)			
	I Layers (A5)	,	Loamy Gleye	•	. , .	1111 0)	•	ed Vertic	•			
	Bodies (A6) (LRR P,	T II)	Depleted Ma						RA 150A, 15	NB)		
	cky Mineral (A7) (LR I		Redox Dark	, ,			•		,	(F19) (LRR F	ο т\	
	esence (A8) (LRR U)	, , , , ,	Depleted Da		. ,				-		-	
	ck (A9) (LRR P, T)		Redox Depre		` '		Anomalous Bright Floodplain Soils (F20) (MLRA 153B)					
	Below Dark Surface	(A11)	Marl (F10) (L		(10)		•	Red Parent Material (F21)				
	rk Surface (A12)	(,,,,	Depleted Oc		1) (MI RA	151)	Very Shallow Dark Surface (F22)					
	airie Redox (A16) (M	LRA 150A)								へ <i>ニニ</i> ៸ A in FL, 154	1)	
	lucky Mineral (S1) (Li		Umbric Surfa							a Matrix (TS	-	
	leyed Matrix (S4)	0, 0,	Delta Ochric					RA 153B		i mainx (10)	,	
	edox (S5)	•	Reduced Ver				•		n Remarks)			
	Matrix (S6)	•	Piedmont Flo					(,			
	face (S7) (LRR P, S,	T. U)	Anomalous E									
	e Below Surface (S8)	-	(MLRA 14	-			· _	ators of h	vdrophytic v	egetation an	d	
	S, T, U)		Very Shallow						ology must l	-		
•		•	(MLRA 13					-	bed or probl			
Restrictive I	_ayer (if observed):		<u>-</u>									
Type:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
Depth (ir	nches):						Hydric Soil Pres	ent?	Yes	No X		
Remarks:												