

Exhibit EE. Benoit LA-26 Site Wetlands Delineation Report







Benoit LA-26 Site Wetland Delineation Report

WETLAND DELINEATION MEMO – MARCH 14th, 2023

ONE ACADIANA BENOIT LA-26 SITE JEFFERSON DAVIS PARISH, LA

Field Visit: February 10th, 2023

1) Purpose

C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) was contracted by One Acadiana (Client) in support of the Louisiana Economic Development Site Certification process to conduct a routine wetland delineation for the proposed Benoit LA-26 Site. The Site is located at the southwest corner of LA Highway 26 and LA Highway 380 (8th Street) and is approximately 18.25 acres in size.

The purpose of the wetland delineation was to determine the presence/absence of wetlands within the Site using the three technical criteria: vegetation, hydrology, and soils. It is necessary that all three criteria be present in order to be a jurisdictional wetland. The absence of any one of these criteria would exclude an area from being a wetland under the jurisdiction of the U. S. Army Corps of Engineers.

2) Materials & Methods

On February 10th, 2023, Fenstermaker conducted a wetland delineation at the Site in accordance with the 1987 U. S. Army Corps of Engineers (USACE) Wetlands Delineation Manual and the 2010 Regional Supplement to the USACE Wetlands Delineation Manual: Atlantic and Gulf Coastal Plain Region, Version 2.0. Soils, hydrology, and vegetation data were collected and recorded at five sample points (SP 1-5). Photographs were taken of the soils and vegetation at each recorded sample point. Location data was collected using a Trimble R1 handheld Global Navigation Satellite System (GNSS) Receiver Unit.

Since the Site was over five acres in size, Fenstermaker established a wetland delineation baseline along LA Highway 26, located east of the Site (**Figure 1**). The area is relatively flat with minimal hydrologic gradient. Three transects were established off the baseline. All sample points (plots) were recorded along the three established transects. Plot locations were based on changes in vegetation and/or hydrology.

3) Wetland Delineation Findings

The wetland delineation identified two palustrine emergent wetlands (Table 3.1) and two Other Waters (Table 3.2) within the boundaries of the Site. Both wetlands consisted of

maintained pasture. Dominant plant species within each wetland included broad-leaf carpet grass (*Axonopus compressus*), Southern crab grass (*Digitaria ciliaris*), and common spike-rush (*Eleocharis palustris*). Other Waters #1 (OW-1) consisted of a road-side ditch along LA Highway 26. OW-2 is a drainage ditch used to relieve precipitation runoff from the neighboring properties to the west. OW-2 is listed on the U. S. Fish & Wildlife Service National Wetland Inventory as a R4SBC – Riverine, Intermittent, Streambed, Seasonally Flooded. It is Fenstermaker's professional opinion that each water will be classified as an ephemeral stream on a preliminary jurisdictional determination or may be proven non-jurisdictional through the approved jurisdictional determination process. A complete list of vegetation, wetland hydrology indicators, soil characteristics, and photos associated with each sample point can be found in the corresponding data sheets located in **Appendix A**.

linear footage, acreage, Cowardin classification, and wetland type.	

Table 3.1 below lists the wetlands identified throughout the Site in addition to wetland ID.

	Table 3.1 Wetland Summary									
Wetland ID	Linear ft.	Acres	Cowardin Classification	Wetland Type						
W-1	535 X 505	4.45	PEM	emergent						
W-2	395 X 405	3.4	PEM	emergent						
Total		7.85								

Table 3.2 below lists the Other Waters identified throughout the Site in addition to the Water ID, linear footage, acres, Cowardin classification, and Waters Type.

Table 3.2 Other Waters Summary									
Other Waters ID	Linear ft.	Acres	Cowardin Classification	Waters Type					
OW-1	1,445	0.14	PUB	Ephemeral					
OW-2	440	0.04	R4SBC	Ephemeral					
Total	1,885	0.18							

4) Qualifications

Fenstermaker's environmental specialists on site have both completed a 38-hour U. S. Army Corps of Engineers Wetland Delineation Training Program with a combined 18 years of experience. Both environmental specialists have conducted numerous routine wetland delineations throughout Texas and Louisiana.

5) References

- Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Lewis M. Cowardin, Virginia Carter, Francis C. Golet, Edward T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service Report No. FWS/OBS/-79/31. Washington, D.C.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. The National Wetland Plant List: 2016 wetland ratings. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X.
- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at the following link: https://websoilsurvey.sc.egov.usda.gov/. Accessed Sept/11/2019.
- U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0), ed. J.S. Lichvar, and C.V. Noble. ERDC/EL TR-10-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Department of Agriculture, Natural Resources Conservation Service. 2018. *Field Indicators of Hydric Soils in the United States*, version 8.2. L.M. Vasilas, G.W. Hurt, and J. F. Berkowitz (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

NOTE: The findings and conclusions of this report are Fenstermaker's opinion based upon a review of available published data sources and the field investigation. A jurisdictional determination can only be made by the USACE. Consultants such as Fenstermaker can perform field investigations (delineations), collect data in a prescribed manner, and submit it to the USACE along with recommendations; however, it is the USACE that makes the final determination. The USACE, New Orleans District, has jurisdiction in the area of this project. A jurisdictional determination from the USACE would be needed to verify the findings within this report.

Figure 1: Wetland Detail Map



Appendix A: Data Forms & Photographs

Project/Site: Benoit HWY 26	City/County: Jefferson Davis Samp	oling Date: 02/10/2023
Applicant/Owner: One Acadiana	State: LAS	Sampling Point: <u>1</u>
Investigator(s): Elliot B., Joey R.	Section, Township, Range: <u>Section 14, - T11</u>	S;R03W
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): <u>None</u>	Slope (%): 0
Subregion (LRR or MLRA): LRR - T Lat: 30.0879	937° Long: <u>-92.672866°</u>	Datum: WGS 84
Soil Map Unit Name: MdA – Midland silty clay loam, 0 to1 percent slopes	s, rarely flooded NWI Classification: NA	
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes 🗹 No 🗌 (If no, explain in Rema	arks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" pres	ent? Yes 🔽 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problema	atic? (If needed, explain any answers in	n Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Yes ☑ No □ Is th Yes ☑ No □ Is th Yes ☑ No □ Is th	e Sampled Area in a Wetland?	Yes 🗹	No
-				
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; of Surface Water (A1) High Water Table (A2) Vater Marks (B1) Vater Marks (B1) Vater Marks (B1) Vater Marks (B3) Vater Marks (B3) Vater Marks (B3) Vater Marks (B4) Vater Stained Leaves (B9)	Check all that apply) □ Aquatic Fauna (B13) □ Marl Deposits (B15) (LRR U) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Lix □ Presence of Reduced Iron (C- □ Recent Iron Reduction in Tille □ Thin Muck Surface (C7) □ Other (Explain in Remarks)	ring Roots (C3) 4) ed Soils (C6)	Secondary Indicators Surface Soil Cra Sparsely Vegeta Drainage Pattern Moss Trim Lines Dry-Season Wat Crayfish Burrow Saturation Visibl Geomorphic Pos Shallow Aquitarc FAC-Neutral Tes Sphagnum moss	(minimum of two required) tocks (B6) tted Concave Surface (B8) ns (B10) (B16) ter Table (C2) (C3) (C3) (C3) e on Aerial Imagery (C9) (C3) (C3) (C3) (C3) (C3) (C3) (C3) (C3
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Yes	Depth (inches): Depth (inches): 18 Depth (inches):	Wetland Hydro	logy Present?	Yes 🗹 No 🗌
Describe Recorded Data (stream gauge, monitor Remarks: Recent Rainfall	ing well, aerial photos, previous ins	pections), if availa	ble:	

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

/EGETATION (Five Strata) - Use scientific name	es of plants.			Sampling Point1
				Dominance Test worksheet:
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1		no		That Are OBL, FACW, or FAC: (A)
<u>}</u>		no		
3		no		Total Number of Dominant
4		no		Species Across All Strata (0)
5		no		- Demonst Spacing
3.		no		- That Are ORI FACW or FAC: 100 (A/B)
	0	= Total Cov	/er	
50 % of total cover: 0	20 % (of total cover:	: 0	Prevalence Index worksheet:
			-	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: <u>30ft</u>)				OBL species 20 x 1 = 20
1		no		FACW species 0 X 2 = 0
2.		no		EAC species 95 X 3 = 285
3.		no		$\frac{1}{1} = \frac{1}{10} = \frac{10}{10} = \frac{10}{1$
4.		no		FACU species <u>10</u> <u>A 4 - 40</u>
5.		no		UPL species X 5 =
ĥ				Column Totals: <u>125</u> (A) <u>345</u> (B)
	0	= Total Cov		·
50 % of total cover: 0	20 %	- total cover	·ei ·· 0	$D_{\rm exclanate index} = D/A = -2.76$
Chrub Stratum (Plat size: 30ft)				Hydrophytic Vegetation Indicators:
1 SITUD SITULIII (FIOL SIZE. JOIL)		20		□ 1 – Rapid Test for Hydrophytic Vegetation
۱				· ☑ 2 – Dominance Test is > 50%
2	·	<u> </u>		$\overline{\square}$ 3 – Prevalence Test is $\leq 3.0^1$
3		<u>no</u>		□ Problematic Hvdrophvtic Vegetation ¹ (Explain)
4		no		
5		no		¹ Indicators of hvdric soil and wetland hydrology must
6		<u></u>		be present, unless disturbed or problematic.
	0	= Total Cov	/er	Definitions of Vegetation Strata:
50 % of total cover:U	20 % c	of total cover:	. 0	_
				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: <u>30ft</u>)				approximately 20 it (o m) of more in height and o m.
1. Axonopus compressus (Broad-Leaf Carpet Grass)	95	yes	FAC	
2. Juncus effusus (Lamp Rush)	15	no	OBL	Sapling – Woody plants, excluding woody vines,
3. Nothoscordum bivalve (Crowpoison)	10	no	FACU	approximately 20 ft (6 m) or more in height and less
4. Eleocharis parvula (Little-Head Spike-Rush)	5	no	OBL	than 3 in. (7.6 cm) DBH.
5.		no		Shrub Woody plants excluding woody vines
6.		no		approximately 3 to 20 ft (1 to 6 m) in height.
7		 		
Ω		 		Herb – All herbaceous (non-woody) plants, including
0.		<u> </u>		herbaceous vines, regardless of size. Includes wood
9 40	·			plants, except woody vines, less than approximately
10				$\begin{bmatrix} 3 \text{ ft} (1 \text{ m}) \text{ in neight.} \end{bmatrix}$
11	4.25			Woodv vine – All woodv vines, regardless of height.
	125	= Total Cov	/er	
50 % of total cover: 00	20 % c	of total cover:	25	-
Woody Vine Stratum (Plot size: 3011)				Hydrophytic
1		<u>no</u>		Vegetation
2		no		Present? res <u>en</u> no <u>en</u>
3		no		_
4.		no		_
5		no		_
	0	= Total Cov	ver	
50 % of total cover; 0	20 % (of total cover	. 0	
			·	
Remarks: (Include photo numbers here or on a separate	sheet.)			

SOIL								Sampling	Point:		1
Profile Descr	iption: (Describe	to the depth	needed to docu	ment the inc	licator or	confirm	the absence of	indicators.)		
Depth	Matrix		Re	edox Feature	S						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remark	S	
0-20	10YR 5/1	90	10YR 3/6	10	С	PL	Silty Clay Loam				
				<u> </u>							
-											
-											
·											
	<u> </u>										
¹ Type: C=Cor	ncentration. D=De	pletion. RM=F	Reduced Matrix. C	S=Covered	or Coated	Sand Gra	ains. ² Loc	ation: PL=F	Pore Linin	a. M=N	atrix.
								<u> </u>			
	idicators:				(00) (1 8		Indicato	rs for Probl	ematic H	yaric S	olls":
	A1)			elow Surface	(S8) (LRF	τS, Τ, Ο) 		uck (A9) (LR	RO)		
	edon (A2)			uface (S9) (L) (L		JCK (A10) (L	RR S)		
				(F)	1) (LRR O)		d Vertic (F18	3) (outsid		A 150A,B
	Sulfide (A4)		Loamy Gley	ed Matrix (F2	2)			nt Floodplair	1 Solls (F1	19) (LR	R P, S, T)
	ayers (A5)			atrix (F3)				ous Bright L	oamy Soil	s (F20)	
	odies (A6) (LRR P	, I, U)		Surface (F6)				A 153B)			
	(A A A A A A A A A A A A A A A A A A A	κκ Ρ, Ι, U)	Depleted Da	rk Surface (F	-7)			rent Material	(TF2)		
)					very Sn	allow Dark 3	surrace (1	F12)	
	(A9) (LRR P, I)	- ()		_RR U)				Explain in Re	emarks)		
	Selow Dark Surrac	e (A11)		nnc (F11) (N	(E40) (LRA 151)		-				
	(Surface (A12)				(F12)(LR	к U, P, I) ³ Indicate	ors of Hydro	phytic veg	getation	and
	nie Redox (ATO) (I aku Minaral (S1) (I	VILKA 150A)		(E17) (L	XR P, I, U A 454))	wetland	hydrology n	nust be pr	esent,	unless
	wod Motrix (S1) (I	LKK 0, 3)		(F17) (IVILRA rtic (E18) (MI	A 131) I DA 150A	150B)	uistuibe				
	dox (S5)			nuc (i 10) (iii i oodolain Soil	e (E10) (M	II PA 1/10	A)				
□ Stripped M	latrix (S6)			Bright Loamv	Soils (F2)		149A 153C 1	53D)			
Dark Surfa	ace (S7) (I RR P S	ст п)		Shght Loaniy	0013 (1 20		1454, 1666, 1	55D)			
		, ., ., .,									
					1						
Restrictive La	ayer (if observed)):									
Туре:			_		Hydri	c Soil Pr	esent?	Yes	\checkmark	No	
Depth (incl	hes):							-		· ·	
Remarks:					1						





Photo 2: Plot 1 – Vegetation facing north Benoit HWY 26 02/10/2023

Photo 3: Plot 1– Vegetation facing east



Photo 4: Plot 1 – Vegetation facing south



Photo 5: Plot 1– Vegetation facing west

Project/Site: Benoit HWY 26	City/County: Jefferson Davis S	Sampling Date: <u>02/10/2023</u>
Applicant/Owner: One Acadiana	State: LA	Sampling Point: 2
Investigator(s): Elliot B., Joey R.	Section, Township, Range: <u>Section 14, -</u>	- T11S;R03W
Landform (hillslope, terrace, etc.) Ridge L	_ocal relief (concave, convex, none): <u>Convex</u>	Slope (%): 0
Subregion (LRR or MLRA): LRR - T Lat: 30.0879	91° Long: <u>-92.672422°</u>	Datum: WGS 84
Soil Map Unit Name: MdA – Midland silty clay loam, 0 to1 percent slopes	, rarely flooded NWI Classification: NA	
Are climatic / hydrologic conditions on the site typical for this time of year	? Yes 🔽 No 🗌 (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	ed? Are "Normal Circumstances"	present? Yes 🔽 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problemat	tic? (If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transect	s, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes □ No ☑ Yes ☑ No □ Yes □ No □	Is the Sampled Area within a Wetland?	Yes No
Remarks:			
-			
HYDROLOGY			
Wetland Hydrology Indicators:		-	Secondary Indicators (minimum of two required)

Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Li Sediment Deposits (B2) Presence of Reduced Iron (C Drift Deposits (B3) Recent Iron Reduction in Tille Algal Mat or Crust (B4) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	□ Surface Soil Cracks (B6) □ Sparsely Vegetated Concave Surface (B8) □ Drainage Patterns (B10) □ Moss Trim Lines (B16) ∨ing Roots (C3) □ □ Dry-Season Water Table (C2) (4) □ □ Crayfish Burrows (C8) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ FAC-Neutral Test (D5) □ Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes <u></u> No <u></u> Depth (inches):	
Water Table Present? Yes 🔲 No 🗹 Depth (inches):	Wetland Hydrology Present? Ves 🗌 No 🗸
Saturation Present? Yes 🗌 No 🗹 Depth (inches): (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	spections), if available:
Remarks:	

GETATION (Eivo Strata) - 110 aiantifia - **f** - - | -.

VEGETATION (FIVE Strata) - Use scientific nai	mes of plants.			Sampling Point2
				Dominance Test worksheet:
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30ft)	% Cover	Species?	Status	Number of Dominant Species
1.		no		That Are OBL, FACW, or FAC: 0 (A)
2.		no		()
3		<u></u>		- Total Number of Dominant
4		110		Species Across All Strata: 1 (B)
4		no		- (2)
5		no		Percent of Dominant Species
6		no		- That Are OBL_EACW_or_EAC· 0 (A/E
	0	= Total Cov	/er	
50 % of total cover: 0	20 % c	of total cover	: 0	Prevalence Index worksheet:
				Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30ft)				OBI species $0 \times 1 = 0$
1		no		$\frac{1}{1} = \frac{1}{1}$
2				$\frac{1}{2}$ FACW species $\frac{5}{5}$ $X Z = \frac{10}{10}$
2		110		- FAC species <u>0</u> X 3 = <u>0</u>
3.		no		- FACU species 130 X 4 = 520
4		no		
5		no		$\frac{1}{1} O_{1} = \frac{1}{1} O_{2} = \frac{1}{1} O_{2$
6		no		$\underline{135}$ (A) $\underline{530}$ (E
	0	= Total Cov	/er	
50 % of total cover: 0	20 % (of total cover	· 0	Prevalence Index = B/A = -3.93
	20 /00		·	
Shrub Stratum (Plot size: 30ft)				Hydrophytic Vegetation Indicators:
1				1 – Rapid Test for Hydrophytic Vegetation
1		10		□ 2 – Dominance Test is > 50%
2.		no		$3 - $ Prevalence Test is $\leq 3.0^{1}$
3		no		Brahlamatia Hydraphytia Vagatation ¹ (Evaluin)
4.		no		
5.		no		
6.		no		be present unless disturbed or problematic
		= Total Cov	/er	Definitions of Vanctation Strate:
50 % of total cover: 0	20 % (of total cover	· 0	Demnitions of vegetation Strata.
	20 % 0			Tree – Woody plants, excluding woody vines
Horb Stratum (Plot size: 30ft)				approximately 20 ft (6 m) or more in height and 3 in.
1 Paspalum notatum (Rabia Grass)	05		FACU	(7.6 cm) or larger in diameter at breast height (DBH)
Paspaidin notatum (Dania Glass)		yes	FACU	-
2. Nothoscordum bivaive (Crowpoison)	15	no	FACU	Sapling – Woody plants, excluding woody vines,
3. Vicia Iudoviciana (Louisiana Vetch)	15	no	FACU	approximately 20 ft (6 m) or more in height and less
4. Andropogon glomeratus (Bushy Bluestem)	5	no	FACW	than 3 ln. (7.6 cm) DBH.
5. Ambrosia artemisiifolia (Annual Ragweed)	5	no	FACU	Shruh – Woody plants, excluding woody vines
6.		no		approximately 3 to 20 ft (1 to 6 m) in height
7		<u></u>		
8		<u> </u>		Herb – All herbaceous (non-woody) plants, including
0		10		herbaceous vines, regardless of size. Includes woo
9		no		plants, except woody vines, less than approximately
10		no		3 ft (1 m) in height.
11		no		
	135	= Total Cov	/er	wooay vine - All woody vines, regardless of height
50 % of total cover: 68	3 20% (of total cover	27	
				-
Woody Vine Stratum (Plot size: 30ft)				Hudrophytic
1		no		Vegetation
2		110		Present? Yes 🗆 No 🗸
2.		110		
3.		no		-
4		no		_
5		no		
	0	= Total Cov	/er	
			. 0	
50 % of total cover: 0	20% c	of total cover	: 0	-

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

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(in al)	Matrix		Re	dox Featu	res			of maloutoro.			
(Incnes)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remar	ks	
0-20	10YR 4/1	95	10YR 3/6	5	С	М	Silty Clay Loam				
-											
-											
							·				
				<u> </u>							
-											
-							· ·				
-							· ·				
-											
Type: C=C	oncentration. D=Depl	letion. RM=I	Reduced Matrix. C	S=Covered	d or Coate	d Sand G	rains. ² L	ocation: PL=P	ore Linir	na. M=N	/latrix.
Ludvia Cail	Indiantana.						Lucitor -				Delle3
1yaric Soli I	Indicators:				- (CO) /I F			ors for Proble		iyaric a	Solis
	(A1)			IOW SUITAC	:e (58) (LF (158) - T	(R S, I, U) <u>⊔</u> 1cm ľ	MUCK (A9) (LR	R U)		
	ipedon (A2)			Tace (59)		U)		VIUCK (A10) (L	KR S)		
Black His	stic (A3)			y Mineral (F1) (LRR	0)		ed Vertic (F18			A 150A,I
Hydroger	n Sulfide (A4)		Loamy Gleye	d Matrix (F	-2)			ont Floodplain	Solls (F	19) (LF	(R P, S, I
	Layers (A5)			trix (F3)	•		Anoma	alous Bright Lo	amy So	ils (F20)
	Bodies (A6) (LRR P,	1, U)		Surface (F	6)			.RA 153B)	(750)		
\square 5 cm Muc	cky Mineral (A7) (LRI	R P, T, U)	Depleted Dai	k Surface	(⊢7)			arent Material	(1+2)		
□ Muck Pre	esence (A8) (LRR U)			ssions (F8	3)		<u> </u>	Shallow Dark S	urface (IF12)	
	ck (A9) (LRR P, T)		<u> </u>	RR U)			U Other	(Explain in Re	marks)		
Depleted	Below Dark Surface	(A11)		nric (F11) (MLRA 15	1)					
L Thick Dai	rk Surface (A12)			ese Masse	es (⊦12) (L	RR 0, P,	T) ³ Indica	ators of Hydrop	hytic ve	getatior	n and
Coast Pra	airie Redox (A16) (M I	LRA 150A)		ce (F13) (I	LRR P, T,	U)	wetlar	d hydrology m	ust be p	resent,	unless
□ Sandy M	ucky Mineral (S1) (LF	RR O, S)	Delta Ochric	(F17) (ML	RA 151)		disturt	bed or problem	atic.		
□ Sandy GI	leyed Matrix (S4)			tic (F18) (I	MLRA 150	A, 150B)					
□ Sandy Re	edox (S5)		Piedmont Flo	odplain So	oils (F19) (MLRA 14	9A)				
	Matrix (S6)		Anomalous E	fright Loan	ny Soils (F	20) (MLR	A 149A, 153C,	153D)			
Dark Surl	face (S7) (LRR P, S ,	T, U)									
	Layer (if observed):										
Restrictive I					Hvd	ric Soil P	rosont?	Vos	V	No	П
Restrictive I Type:		Depth (inches):			nyu		resent:	163	<u>e</u> 1		
Restrictive I Type: Depth (in	ches):										
Restrictive I Type: Depth (in	ches):										
Restrictive I Type: Depth (in Remarks:	ches):										
Restrictive I Type: Depth (in Remarks:	ches):										
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Restrictive I Type: Depth (in Remarks:	ches):		<u> </u>								
Restrictive I Type: Depth (in Remarks:	ches):										
Restrictive I Type: Depth (in Remarks:	ches):		<u> </u>								



Photo 1: Plot 2 - Soil sample





Photo 3: Plot 2– Vegetation facing east





Photo 5: Plot 2– Vegetation facing west

Project/Site: Benoit HWY 26	City/County: Jefferson Davis Sampling Date: 02/10/2023								
Applicant/Owner: One Acadiana	State: LA Sampling Point: <u>3</u>								
Investigator(s): Elliot B., Joey R.	Section, Township, Range: <u>Section 14, - T11S;R03W</u>								
Landform (hillslope, terrace, etc.) Flat	Local relief (concave, convex, none): <u>None</u> Slope (%): <u>0</u>								
Subregion (LRR or MLRA): <u>LRR - T</u> Lat: <u>30.090</u>	805° Long: <u>-92.674342°</u> Datum: <u>WGS 84</u>								
Soil Map Unit Name: CrA - Crowley-Vidrine complex, 0 to 1 percent slo	pesNWI Classification: NA								
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes 🗹 No 🗌 (If no, explain in Remarks.)								
Are Vegetation, Soil, or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes 🔽 No 🗌								
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.								
Hudris Oril Descent? Yes I No	□ Is the Sampled Area □ □								
Hydric Soil Present? Yes Ves No	└── within a Wetland? Yes _ └── No _ └──								

Yes 🗆 No 🗹

Wetland Hydrology Present?

Remarks: -

HYDROLOGY		
Wetland Hydrology Indicators:	<u> </u>	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		□ Surface Soil Cracks (B6)
□ Surface Water (A1) □ Aquatic Fauna (B13)	-	□ Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	-	Drainage Patterns (B10)
□ Saturation (A3) □ Hydrogen Sulfide Odor (C1)	-	Moss Trim Lines (B16)
□ Water Marks (B1) □ Oxidized Rhizospheres on Li	ving Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	(4)	Crayfish Burrows (C8)
Drift Deposits (B3)	ed Soils (C6)	□ Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	. , _	□ Geomorphic Position (D2)
□ Iron Deposits (B5) □ Other (Explain in Remarks)	-	□ Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	-	□ FAC-Neutral Test (D5)
□ Water-Stained Leaves (B9)	-	□ Sphagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes 🔲 No 🗹 Depth (inches):		
Water Table Present? Yes 🗌 No 🗹 Depth (inches):	Watland Uvdra	
Saturation Present? Yes 🗌 No 🗹 Depth (inches): (includes capillary fringe)		logy Present? Yes 🗀 No 🖭
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	spections), if availat	ole:
Remarks:		

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

· · · · · · · · · · · · · · · · · · ·	so or planto.			Sampling Fornt 5
				Dominance Test worksheet:
	Absolute	Dominant	Indicator	
ree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
		no		That Are OBL, FACW, or FAC: 1 (A)
		no		
		no		Total Number of Dominant
		no		Species Across All Strata: 2 (B)
		no		-
	·	<u></u>	-	Percent of Dominant Species
·	0	- Total Cov	or	- That Are OBL, FACW, or FAC: <u>50</u> (A/E
50 % of total cover:	20 % (of total cover:	0	Brovalance Index workshoot:
				Total % Cover of Multiply by
apling Stratum (Plot size: 30ft)				
apiling Stratum (Flot size. <u>Solt</u>)		20		
·	·			FACW species 0 X 2 = 0
		no		- FAC species <u>30</u> X 3 = <u>90</u>
·		no		FACU species 110 X 4 = 440
		no		$\frac{1}{1}$
		no		Column Tatala: 140 (A) 520 (
		no		$\frac{140}{140}$
	0	= Total Cov	er	
50 % of total cover: 0	20 % c	of total cover:	0	Prevalence Index = $B/A = 3.79$
				Hydrophytic Vegetation Indicators:
hrub Stratum (Plot size: <u>30ft</u>)				□ 1 Panid Test for Hydrophytic Vegetation
		no		
		no		2 - Dominance Test is > 50%
		no		$3 - Prevalence Test is \le 3.0^{1}$
		no		Problematic Hydrophytic Vegetation ¹ (Explain)
	·	<u></u>		-
·		<u></u>		Indicators of hydric soil and wetland hydrology mu
·				be present, unless disturbed or problematic.
	0			Definitions of Vegetation Strata:
	20 % 0	of total cover:	0	Tree Weedy plants, excluding weedy vines
				approximately 20 ft (6 m) or more in height and 3 in
Pipitaria ciliaria (Plot size: <u>30ft</u>)	00			(7.6 cm) or larger in diameter at breast height (DBH
	90	yes	FACU	-
Axonopus compressus (Broad-Leaf Carpet Grass)	30	yes	FAC	Sapling – Woody plants, excluding woody vines,
Andropogon ternarius (Split-Beard Bluestem)	15	no	FACU	approximately 20 ft (6 m) or more in height and less
. Sporobolus indicus (Smut Grass)	5	no	FACU	
		no		Shrub – Woody plants, excluding woody vines.
		no		approximately 3 to 20 ft (1 to 6 m) in height.
		no		
		no		Herb – All herbaceous (non-woody) plants, includin
	·	<u></u>	-	 herbaceous vines, regardless of size. Includes woo plants, support was deviced by the propagate.
0	·	<u></u>		3 ft (1 m) in height
1	·	<u> </u>		
ı				Woody vine – All woody vines, regardless of heigh
70	140	= Total Cov	er	, , , , , , , , , , , , , , , , , , ,
50 % of total cover: 70	20 % c	of total cover:	28	-
loody Vine Stratum (Plot size: 30ft)				Hydrophytic
		no		Vegetation
·		no		Present? Yes <u> </u>
		no		
		no		
		no		
•		= Total Cov	or	-
·	0			
			0	

SOIL								Sampling	Point:	3
Profile Desc	cription: (Describe	to the dept	n needed to docu	ment the i	ndicator o	or confirm	the absence	of indicators.	.)	
Depth	Matrix		Re	edox Featu	ires					
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²			Remarks	
0-20	10YR 4/2	95	10YR 3/6	5	С	М	Silty Clay			
-										
-										
-		·						-		
							······································			
¹ Type: C=C	oncentration, D=De	epletion, RM=	Reduced Matrix, C	S=Covere	d or Coate	ed Sand Gr	rains. ² L	ocation: PL=F	Pore Lining,	M=Matrix.
Hydric Soil	Indicators:						Indicat	tors for Probl	lematic Hyd	dric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (Ll	RR S, T, U) 🗆 1 cm I	Muck (A9) (LR	RR 0)	
Histic Ep	ipedon (A2)		□ Thin Dark Su	uface (S9)	(LRR S, T	, U)	2 cm l	Muck (A10) (L	.RR S)	
Black His	stic (A3)		□ Loamy Muck	y Mineral ((F1) (LRR	O)	□ Reduc	ced Vertic (F1	8) (outside	MLRA 150A,B)
<u> </u>	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedm	ont Floodplair	n Soils (F19) (LRR P, S, T)
<u></u> Stratified	Layers (A5)		☑ Depleted Ma	ıtrix (F3)			Anom	alous Bright L	oamy Soils	(F20)
Organic I	Bodies (A6) (LRR F	P, T, U)	□ Redox Dark	Surface (F	6)		(ML	.RA 153B)		
<u> </u>	cky Mineral (A7) (L	RR P, T, U)	Depleted Da	rk Surface	(F7)		□ Red P	arent Materia	l (TF2)	
	esence (A8) (LRR l	J)	Redox Depre	essions (F8	8)		<u> </u>	Shallow Dark S	Surface (TF	12)
	ck (A9) (LRR P, T)		<u> </u>			•	U Other	(Explain in Re	emarks)	
Depleted	Below Dark Surface	ce (A11)		nric (F11)	(IVILKA 15		T \			
	nk Sunace (A12)	MI DA 150A)			" DD D T	.KK U, P,	³ Indica	ators of Hydro	phytic vege	tation and
□ Coast 11	ucky Mineral (S1) (Delta Ochric	(F17) (MI	RA 151)	0)	wetlar	nd hydrology n Ded or problen	nust be pres	ent, unless
□ Sandy G	leved Matrix (S4)	, 0, 0,	Reduced Ve	(i i i) (iiii <u>-</u> rtic (F18) (MLRA 150)A. 150B)	diotari			
□ Sandy R	edox (S5)		Piedmont Flo	podplain S	oils (F19) ((MLRA 149	9A)			
□ Stripped	Matrix (S6)		□ Anomalous E	Bright Loar	ny Soils (F	20) (MLR/	Á 149A, 153C,	153D)		
Dark Sur	face (S7) (LRR P, \$	S, T, U)		0		, ,		,		
Postrictivo	l aver (if observed) .								
Type:	Layer (II Observed	<i>.</i>							_	_
Depth (in	ches):				Hyd	ric Soil Pi	resent?	Yes	\checkmark	No 🗌
Deptil (iii	<u> </u>									
Remarks:										





Photo 2: Plot 3 – Vegetation facing north



Photo 3: Plot 3– Vegetation facing east





Photo 5: Plot 3– Vegetation facing west

Project/Site: Benoit HWY 26	City/Cou	inty: Jefferson Davis	Sampling Date: <u>02/10/2023</u>						
Applicant/Owner: One Acadiana		State: LA	Sampling Point: <u>4</u>						
Investigator(s): Elliot B., Joey R.	Section, Township, Range: <u>Section 14, - T11S;R03W</u>								
Landform (hillslope, terrace, etc.) Flat	Local relief (d	concave, convex, none): <u>No</u>	neSlope (%): 0						
Subregion (LRR or MLRA): LRR - T Lat:	30.090808°	Long: <u>-92.67261°</u>	Datum: WGS 84						
Soil Map Unit Name: CrA - Crowley-Vidrine complex, 0 to 1 per	cent slopes	NWI Classification:	NA						
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes	🗹 No 🗌 (If no, explair	n in Remarks.)						
Are Vegetation, Soil, or Hydrologysignificant	y disturbed?	Are "Normal Circumstane	ces" present? Yes 🗹 No [
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, explain any a	nswers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map sho	ب wing sampling	point locations, trans	ects, important features, et						
		e Sampled Area							
Hydric Soll Present? Yes	NO <u></u> with	in a Wetland? Ye	es 🛄 No 🛄						

Yes 🗆 No 🗹

Wetland Hydrology Present?

Remarks: -

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

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

Absolute Dominant Indicator 3. no no Number of Dominant Species 0 (A 2. no no Number of Dominant Species 0 (A 3. no no Number of Dominant Species 0 (A 5. no no Number of Dominant Species 0 (A 6. no no Total Number of Dominant Species 0 (A 5. no no Total Number of Dominant Species 0 (A 5. no no Prevalence Index worksheet: 0 (A 7. no no Na = ao (A (A) (A) 6. no no (A) (A) (A) (A) (A) 1. no no (A)	EGETATION (FIVE Strata) - Use scientific names	of plants.			Sampling Point4
Absolute Dominant Indicator 1					Dominance Test worksheet:
Time Stratum (Plot size:		Absolute	Dominant	Indicator	
no no That Are OBL, FACW, or FAC: 0 (A	ree Stratum (Plot size: <u>30ft</u>)	% Cover	Species?	Status	Number of Dominant Species
			no		That Are OBL, FACW, or FAC: 0 (A)
image:			no		
			no		Total Number of Dominant
imp imp imp i			<u></u>		Species Across All Strata: 1 (B)
Image: Second constraints of the second constraints of the second constraints (Second constraints)) Percent of Dominant Species Second constraints (Plot size:	·		<u> </u>	·	
0 -0 -0 -0 -0 -0 -0 That Are OBL, FACW, or FAC: 0 (A) sapiling Stratum (Plot size:	·		10		Percent of Dominant Species
			no		That Are OBL, FACW, or FAC: 0 (A/B)
50 % of total cover: 0 20 % of total cover: 0 appling Stratum (Plot size: 30f		0	= Total Cov	er	
Lapling Stratum (Plot size:	50 % of total cover:0	_ 20 % c	of total cover:	0	Prevalence Index worksheet:
appling Stratum (Plot size:					Total % Cover of:Multiply by:
no no FACW species 0 X2 = 0 no no no FACW species 10 X4 = 40 Image: Sole of table cover: 0 = Total Cover 0 X5 = 0 Column Totals: 100 X4 = 440 UPL species 10 X4 = 440 UPL species 0 X5 = 0 Column Totals: 120 (A) 470 (C) Strub Stratum (Plot size: 30f. 0 = Total Cover 0 = Total Cover 0 = Provelance Test is 5 50% So % of total cover: 0 = Total Cover 0 = Problematic Hydrophytic Vegetation Indicators: Indicators of hydric soil and wetland hydrology 0 0 = Total Cover 0 = Total Cover 0 50 % of total cover: 0 = FACU Saping - No Sa - Total Co	apling Stratum (Plot size: <u>30ft</u>)				OBL species 0 x 1 = 0
no no RAC species 10 X 3 = 30 no no no RAC species 110 X 4 = 440 no no 0 = Total Cover 0 Statum (PL species 0 X 4 = 440 uplace 0 = Total Cover 0 Prevalence Index = B/A = 3.92 brub Stratum (Plot size: 30f 1 Rapid Test for Hydrophytic Vegetation 1 Rapid Test for Hydrophytic Vegetation image: no no 1 1 Rapid Test for Hydrophytic Vegetation 1 1 1 Rapid Test for Hydrophytic Vegetation 1	·		no		FACW species 0 X 2 = 0
			no		EAC appealon = 10 X 2 = 20
i			no		FAC species 10 A 5 - 30
into into into into into into into into into into into into into into into into <	·		<u></u>		FACU species 110 X 4 = 440
Imo					UPL species 0 X 5 = 0
no no no 50 % of total cover: 0 = Total Cover 20 % of total cover: 0 3hrub Stratum (Plot size: 30f.) 1 no 1 1 no FACU 1 no 1 1 no 1 1 no 1 1 no 1			no		$\frac{1}{120} \qquad (A) \qquad 470 \qquad (B)$
0 = Total Cover 0 50 % of total cover: 0 Prevalence Index = B/A = _3.92 thrub Stratum (Plot size:	·		no		
50 % of total cover: 0 20 % of total cover: 0 Prevalence Index = B/A =3.92 ihrub Stratum (Plot size:30ft)		0	= Total Cov	er	
thrub Stratum (Plot size:30f) ihrub Stratum (Plot size:30f) ind no no 2 no 2 no	50 % of total cover: 0	20 % c	of total cover:	0	Prevalence Index = $B/A = 3.92$
intrub Stratum (Plot size:30ft)	—	-			Hudrophytic Vegetation Indicators:
no no 1 1 Appl 1 est for Hydrophytic Vegetation no no 2 - Dominance Test is > 50% no no - 3 - Prevalence Test is > 50% no no - - - - no - - - - - - 1 no -	hrub Stratum (Plot size: 30ft)				
	,		no		□ 1 – Rapid Test for Hydrophytic Vegetation
Image: Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the stratum Solution of the stratum Solution of the stratum Image: Solution of the stratum Image: Solution of the st			<u></u>		2 – Dominance Test is > 50%
no no Digitaria ciliaris (Southen Crab Grass) 95 Andropogon ternarius (Split-Beard Bluestem) no Andropogon ternarius (Smut Grass) 5 sporoximately 20 ft (6 m) or more in height and 1si no no sporoximately 20 ft (6 m) or more in height and less no no					□ 3 – Prevalence Test is $\leq 3.0^1$
no no no no no present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DB r (7.6 cm) or larger in diameter at breast height and 5 in (7.6 cm) or plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 5 in (7.6 cm) or plants, excluding woody vines, approximately 20 ft (6 m) or more in height and sin (7.6 cm) DBH. Sporobolus indicus (Smut Grass) 5 no no no no 1 no no 1. no no			<u>no</u>		Problematic Hydrophytic Vegetation ¹ (Explain)
5.			no		
3.			no		Indicators of hydric soil and wetland hydrology mus
0 = Total Cover 50 % of total cover: 0 20 % of total cover: 0 20 % of total cover: 0 10 20 % of total cover: 0 10 10 10 11. Digitaria ciliaris (Southern Crab Grass) 95 yes 20 Andropogon temarius (Split-Beard Bluestem) 10 no FACU 3. Paspalum urvillei (Vasey's Grass) 5 no FACU 3. Sporobolus indicus (Smut Grass) 5 no FACU 3.			no		he present unless disturbed or problematic
50 % of total cover: 0 20 % of total cover: 0 Herb Stratum (Plot size: 30ft_) 10		0	= Total Cov	er	Definitions of Vagetation Strata
Image: Source of total cover. Image: Cover of total cover. <td>50 % of total cover: 0</td> <td>20 % (</td> <td>of total cover</td> <td>0</td> <td>Definitions of vegetation Strata.</td>	50 % of total cover: 0	20 % (of total cover	0	Definitions of vegetation Strata.
Herb Stratum (Plot size:			in total cover.		Tree – Woody plants, excluding woody vines.
Herb Stratum (Piot size:	lash Stratum (Diataiza: 20ft)				approximately 20 ft (6 m) or more in height and 3 in.
1. Digital cliants (sourierin crac crass) 95 Yes FACU 2. Andropogon ternarius (Split-Beard Bluestem) 10 no FACU 3. Paspalum urvillei (Vasey's Grass) 10 no FACU 5. Sporobolus indicus (Smut Grass) 5 no FACU 6	Distante cilierie (Southern Crob Croce)	05		54.011	(7.6 cm) or larger in diameter at breast height (DBH).
2. Andropogon ternarius (Spilt-Beard Bluestem) 10 no FACU Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and les: than 3 in. (7.6 cm) DBH. 3. Sporobolus indicus (Smut Grass) 5 no FACU Shrub – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and les: than 3 in. (7.6 cm) DBH. 5. no FACU Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 7. no no approximately 3 to 20 ft (1 to 6 m) in height, includir the fraceous vines, regardless of size. Includes woo plants, except woody vines, less than approximatel 3 ft (1 m) in height. 10. no no 11. no no 12.0 = Total Cover 50 % of total cover: 60 20 % of total cover: 2. no no 3. no no 4. no no 5. no no 12. no 120 2. no 10 3. no no 4. no no 5. no 120 6.		90	yes	FACU	
8. Paspalum urvillei (Vasey's Grass) 10 no FAC approximately 20 tt (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. no FACU than 3 in. (7.6 cm) DBH. 5. no FACU Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 6. no no approximately 3 to 20 ft (1 to 6 m) in height. 7. no no approximately 3 to 20 ft (1 to 6 m) in height. 8. no no approximately 3 to 20 ft (1 to 6 m) in height. 9. no no approximately 3 to 20 ft (1 to 6 m) in height. 10. no no approximately 3 to 20 ft (1 to 6 m) in height. 11. no no approximately 3 to 20 ft (1 to 6 m) in height. 11. no no approximately 3 to 20 ft (1 to 6 m) in height. 12.0 = Total Cover 3 ft (1 m) in height. Woody vines, regardless of height 10. no no no Present? Yes No Implementer 11. no no no Present? Yes No Implementer 12. no <td< td=""><td>Andropogon ternarius (Split-Beard Bluestem)</td><td>10</td><td>no</td><td>FACU</td><td>Sapling – Woody plants, excluding woody vines,</td></td<>	Andropogon ternarius (Split-Beard Bluestem)	10	no	FACU	Sapling – Woody plants, excluding woody vines,
Sporobolus indicus (Smut Grass) 5 no FACU than 3 in. (7.6 cm) DBH. Signal and the stratum of the stratum	. Paspalum urvillei (Vasey's Grass)	10	no	FAC	approximately 20 ft (6 m) or more in height and less
i.	. Sporobolus indicus (Smut Grass)	5	no	FACU	than 3 in. (7.6 cm) DBH.
Image: stratum Imag			no		Chrysh Weedy slepte evoluting woody vines
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			<u></u>		Shrub – Woody plants, excluding woody vines,
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	·				$\frac{1}{2}$ approximately 3 to 20 it (1 to 6 iii) in height.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	·		no		Horb - All berbaceous (non-woody) plants, including
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			no		- herbaceous vines regardless of size Includes wood
10. no no 3 ft (1 m) in height. 11. no no Woody vine - All woody vines, regardless of height. 50 % of total cover: 60 20 % of total cover: 24 Voody Vine Stratum (Plot size: 30ft Hydrophytic Voody Vine Stratum (Plot size: 30ft No . no no Vegetation . no no No Vegetation . no no No Vegetation . no no No Vegetation . 0 = Total Cover 0 No Vegetation 			no		plants. except woody vines. less than approximately
1. no no no mo	0.		no		3 ft (1 m) in heiaht.
Image: Non-transmission of the stratum stratum (Plot size: 30ft) Image: Non-transmission of the stratum (Plot size: 30ft) Image: Non-transmission of the stratum (Plot size: 30ft) Image: Non-transmission of the stratum of the stratumod of the stratum of the stratum of the stratum of the	1		<u>no</u>		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		120	- Total Cov		Woody vine – All woody vines, regardless of height.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	50 0/ statel second 60	120		er 24	• • •
Woody Vine Stratum (Plot size: 30ft) Hydrophytic . . . No $Vegetation$ Present? Yes No $Vegetation$. .	50 % of total cover: 00	_ 20 % c	of total cover:	24	-
Woody Vine Stratum (Plot size: 30ft) Hydrophytic . . . No <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<pre>voody Vine Stratum (Plot size: 30ft)</pre>				Hydrophytic
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			no		Vegetation
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		_	no	_	Present? Yes <u>└</u> No <u>└</u>
$ \begin{array}{c} $			no		1
$ \begin{array}{c} \hline \\ \hline \\$	·		<u></u>		•
$ \begin{array}{c} $	•				
			<u>no</u>		.
50 % of total cover: 0 20 % of total cover: 0		~	= Total Cov	er	
		0			
	50 % of total cover: 0	0	of total cover:	0	

(inches)	Matrix		Re	dox Featu	res				,		
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			Remarks	3	
0-20	10YR 4/2	95	10YR 3/6	5	C	М	Silty Clay Loam				
-											
-											
-											
-	·										
-	·										
Гуре: С=С	oncentration, D=De	pletion, RM=I	Reduced Matrix, C	S=Covered	d or Coate	d Sand G	rains. ² L	ocation: PL=	Pore Lining	, M=Matr	ix.
vdric Soil	Indicators:						Indica	tors for Prob	olematic Hv	dric Soil	s³:
J Histosol	(A1)		Polyvalue Be	low Surfac	e (S8) (LF	R S. T. L	J) □ 1 cm	Muck (A9) (L l	RR O)		
 □ Histic Ep	oipedon (A2)		□ Thin Dark Su	face (S9)	LRR S, T	U)	2 cm ∣	Muck (A10) (I	LRR S)		
 ∃ Black His	stic (A3)		Loamy Muck	v Mineral (F1) (LRR	0)	Reduce	ced Vertic (F1	, 18) (outside	MLRA 1	50A,
 □ Hydroge	n Sulfide (A4)		□ Loamy Gleve	d Matrix (F	=2)	,	□ Piedm	ont Floodpla	in Soils (F1	9) (LRR F	, s, ⁻
☐ Stratified	Layers (A5)		Depleted Ma	trix (F3)	,		□ Anom	, alous Bright I	Loamy Soils	(F20)	
 □ Organic	Bodies (A6) (LRR P	, T, U)	□ Redox Dark 3	Surface (F	6)		(MI	.RA 153B)	,	()	
 □ 5 cm Mu	cky Mineral (A7) (LI	RR P, T, U)	Depleted Da	k Surface	, (F7)		□ Red F	, Parent Materia	al (TF2)		
 □ Muck Pre	esence (A8) (LRR U))	□ Redox Depre	ssions (F8	3)		□ Very S	Shallow Dark	Surface (TI	=12)	
 □ 1 cm Mu	ck (A9) (LRR P, T)		 □ Marl (F10) (L	RR U)	,		□ Other	(Explain in R	(emarks)	,	
Depleted	Below Dark Surfac	e (A11)	Depleted Ocl	, hric (F11) (MLRA 15	1)		、 1	,		
 □ Thick Da	ark Surface (A12)	()	□ Iron Mangan	ese Masse	s (F12) (L	, RR 0, P,	T) 31				
 □ Coast Pr	airie Redox (A16) (I	MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T,	U) , ,	' 'Indica wetlar	ators of Hydro od bydrology	ophytic vege	etation an	d ess
 □ Sandy M	lucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) (ML	RA 151)	,	distur	bed or proble	matic.	Sent, unit	.55
 □ Sandy G	ileyed Matrix (S4)		Reduced Ver	, tic (F18) (I	MLRA 150	A, 150B)		•			
 □ Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19) (MLRA 14	9A)				
☐ Stripped	Matrix (S6)		□ Anomalous E	Bright Loan	ny Soils (F	20) (MLR	Á 149A, 153C,	153D)			
Dark Sur	face (S7) (LRR P, S	S, T, U)		-		, ,		,			
).									
estrictive	Layer (if observed)	,.			Llud	ria Cail D	recent?	Vac	J		1
estrictive Type:	Layer (if observed)	,.				FIA: SAUL P		105			
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testrictive Type: Depth (ir	Layer (if observed)				пуа		resent?	Tes			
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Restrictive Type: Depth (ir Remarks:	Layer (if observed)							162			
Restrictive Type: Depth (ir Remarks:	Layer (if observed)							Tes			
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estrictive Type: _ Depth (ir emarks:	Layer (if observed)				, nyu			Tes			



Photo 3: Plot 4– Vegetation facing east





Photo 5: Plot 4– Vegetation facing west

Project/Site: Benoit HWY 26	City/County: Jefferson Davis Sa	impling Date: <u>02/10/2023</u>
Applicant/Owner: One Acadiana	State: LA	_ Sampling Point: <u>5</u>
Investigator(s): Elliot B., Joey R.	_Section, Township, Range: <u>Section 14, -</u>	T11S;R03W
Landform (hillslope, terrace, etc.) Flat Loc	cal relief (concave, convex, none): <u>None</u>	Slope (%): 0
Subregion (LRR or MLRA): LRR - T Lat: 30.089363	^{8°} Long: <u>-92.673651°</u>	Datum: WGS 84
Soil Map Unit Name: CrA - Crowley-Vidrine complex, 0 to 1 percent slopes	NWI Classification: NA	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes 🔽 No 🗌 (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed	Are "Normal Circumstances" p	resent? Yes 🔽 No 🗌
Are Vegetation, Soil, or Hydrologynaturally problematic?	? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	npling point locations, transects	, important features, etc.

Hydrophytic Vegetation Present? Yes ☑ No □ Hydric Soil Present? Yes ☑ No □ Wetland Hydrology Present? Yes ☑ No □

HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply)	Secondary Indicators (minimum of two required)
	 Surface Sofi Clacks (B0) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	d Hydrology Present? Yes 🗹 No 🗌
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	if available:
Remarks:	

VEGETATION (Five Strata) - Use scientific na	mes of plants.			Sampling Point <u>5</u>
				Dominance Test worksheet:
Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.		<u>no</u>		That Are OBL FACW or FAC: 2 (A)
2.				
3		<u></u>		Total Number of Dominant
4		<u></u>		Species Across All Strata: <u>3</u> (B)
5		<u></u>		
6		<u></u>		Percent of Dominant Species
				That Are OBL, FACW, or FAC: <u>66</u> (A/B)
EQ % of total approx				Drevelance Index workshoets
	20 % 0	n total cover.		Total % Cover of:Multiply by:
Sapling Stratum (Plot size: <u>30ft</u>)				OBL species x 1 = 45
1		no		FACW species X 2 =
2		no		FAC species 0 X 3 = 0
3		no		FACU species 50 X 4 = 200
4.		no		
5		no		$\frac{0}{100} \times 5 = 0$
6		no		Column Totals: <u>95</u> (A) <u>245</u> (B)
	0	= Total Cov	er	
50 % of total cover:0	20 % c	of total cover:	0	Prevalence Index = B/A = <u>2.58</u>
Shruh Stratum (Blot aiza: 20ft)				Hydrophytic Vegetation Indicators:
		20		1 – Rapid Test for Hydrophytic Vegetation
۱		<u> </u>		_☑ 2 – Dominance Test is > 50%
2		no		$\boxed{2}$ 3 – Prevalence Test is $\leq 3.0^1$
3.		no		Problematic Hydrophytic Vegetation ¹ (Explain)
4.		no		
5.		no		¹ Indicators of hydric soil and wetland hydrology must
6		no		be present, unless disturbed or problematic.
	0	= Total Cov	er	Definitions of Vegetation Strata:
50 % of total cover:0	20 % c	of total cover:	0	
				Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: <u>30ft</u>)				(7.6 cm) or larger in diameter at breast height (DBH)
1. Digitaria ciliaris (Southern Crab Grass)	40	yes	FACU	
2. Juncus effusus (Lamp Rush)	25	yes	OBL	Sapling – Woody plants, excluding woody vines,
3. Eleocharis palustris (Common Spike-Rush)	20	yes	OBL	approximately 20 ft (6 m) or more in height and less
4. Nothoscordum bivalve (Crowpoison)	10	no	FACU	than 3 ln. (7.6 cm) DBH.
5		no		Shrub – Woody plants, excluding woody vines
6		no		approximately 3 to 20 ft (1 to 6 m) in height.
7.		no		
8.		no		Herb – All herbaceous (non-woody) plants, including
9.		no		nerbaceous vines, regardless of size. Includes woody
10.		no		3 ft (1 m) in height.
11.		no		
	95	= Total Cov	er	Woody vine – All woody vines, regardless of height.
50 % of total cover:48	<u> </u>	of total cover:	19	
Woody Vine Stratum (Plot size: 30ft.)				Linder when the
1		no		Hydropnytic
2		<u> </u>		Present? Yes V No
2.		<u> </u>		
3		<u>no</u>		
4		no		
D		no		
	0	= Total Cov	er	

20 % of total cover: 0

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

50 % of total cover:

0

SOIL								Sampling	Point:	5
Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	indicator of	or confirm	the absence	of indicators.)		
Depth	Matrix		R	edox Featu	ures					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u> </u>		Remarks	
0-20	10YR 4/2	92	10YR 3/6	8	C	PL	Silty Clay Loam			
-							. <u> </u>			
-							<u> </u>			
_										
-										
-										
	· ··						·			
	·						· ·			
	·									
¹ Type: C=C	Concentration, D=De	pletion, RM=I	Reduced Matrix, 0	CS=Covere	d or Coate	ed Sand G	rains. ² L	ocation: PL=P	ore Lining, I	M=Matrix.
Hydric Soil	Indicators						Indicat	ors for Proble	matic Hyd	ric Soils ³
	(Δ1)		🗆 Polyvalue B	elow Surfa	ce (S8) (I I	RRSTI				
□ Histic Fr	pipedon (A2)		□ Thin Dark S	uface (S9)		(10, 1, C	, <u> </u>	Muck (A10) (I F	R S)	
Black Hi	stic (A3)			kv Mineral	(F1) (LRR	, c, O)	□ Reduc	ed Vertic (F18) (outside N	MLRA 150A.B)
	n Sulfide (A4)		Loamy Glev	ed Matrix ((F2)	-,	□ Piedm	ont Floodplain	Soils (F19)	(LRR P. S. T)
□ Stratified	Lavers (A5)		☑ Depleted Ma	atrix (F3)	/			alous Bright Lo	amy Soils ((, _, _, _, _, _, F20)
Organic	Bodies (A6) (LRR P	P, T, U)	□ Redox Dark	Surface (F	-6)		(ML	.RA 153B)	, (,
5 cm Mu	icky Mineral (A7) (L l	RR P, T, U)	Depleted Da	ark Surface	e (F7)		□ Red P	arent Material	(TF2)	
□ Muck Pr	esence (A8) (LRR L	J)	Redox Depr	essions (F	8)		🗆 Very S	Shallow Dark S	urface (TF1	2)
1 cm Mu	ick (A9) (LRR P, T)		<u> </u>	LRR U)			Other	(Explain in Rer	marks)	
Depleted	d Below Dark Surfac	e (A11)	Depleted Oc	chric (F11)	(MLRA 15	51)				
Thick Da	ark Surface (A12)		□ Iron Mangar	nese Mass	es (F12) (L	.RR O, P,	T) ³ Indica	ators of Hydrop	hytic vegeta	ation and
□ Coast Pr	rairie Redox (A16) (I	MLRA 150A)	Umbric Surf	ace (F13) ((LRR P, T,	U)	wetlar	id hydrology m	ust be prese	ent, unless
□ Sandy M	lucky Mineral (S1) (LRR O, S)	Delta Ochrid	c (F17) (ML	.RA 151)		disturb	ped or problem	atic.	
_ <u>□</u> Sandy G	leyed Matrix (S4)		Reduced Ve	ertic (F18) ((MLRA 150	DA, 150B)				
<u> </u>	ledox (S5)		Piedmont Fl	loodplain S	oils (F19)	(MLRA 14	9A)			
	Matrix (S6)		<u>Anomalous</u>	Bright Loai	my Solls (F	·20) (MLR	A 149A, 153C,	153D)		
	(1ace (37) (LKK P, 3	5, 1, 0)								
Restrictive	Layer (if observed):								
Type:					Hvd	Iric Soil P	rosont?	Ves		
Depth (ir	nches):							100		
Remarks [.]										
rtomanto.										
l										







Photo 3: Plot 5– Vegetation facing east





Photo 5: Plot 5– Vegetation facing west