Exhibit FF. Dequincy Industrial Park Wetlands Delineation Report







September 10, 2018

Via Electronic Mail

Dequincy Industrial Park Wetlands Delineation Report

Mr. Gus Fontenot SWLA Economic Development Alliance 4310 Ryan Street Lake Charles, LA 70605

Re: Wetland Data Report Dequincy Industrial Park Calcasieu Parish, Louisiana Providence Project No. 1204-006

Dear Mr. Fontenot:

On behalf of SWLA Economic Development Alliance (SWLA), Providence Engineering and Environmental Group LLC (Providence) is submitting this wetland data report requesting a preliminary jurisdictional determination (JD) for the proposed Dequincy Industrial Park (hereinafter referred to as Site) in Calcasieu Parish, Louisiana.

BACKGROUND

The purpose of this report is to present field data, habitat descriptions, and other pertinent information on the three diagnostic characteristics of wetlands. This report was prepared in accordance with the *Corps of Engineers Wetlands Delineation Manual* (U.S. Army Corps of Engineers, Waterways Experiment Station 1987) and subsequent guidance provided in the Regional Supplement to the *Corps of Engineers Wetland Delineation Manual* (U.S. Army Corps of U.S. Army Corps of Engineers, Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (U.S. Army Corps of Engineers, Wetland Regulatory Assistance Program 2010). On August 23, 2018, Providence biologists visited the Site and collected field data on the three diagnostic wetland parameters – soils, vegetation, and hydrology.

Prior to field reconnaissance, Providence reviewed the Natural Resources Conservation Service (NRCS) Web Soil Survey (2018), the *Soil Survey of Calcasieu Parish* (United States Department of Agriculture, Soil Conservation Service 1995), United States Geological Survey (USGS) 7.5-minute topographic maps, and relevant aerial photography. Included for your review are: **Figure 1** - Vicinity Map, **Figure 2** - Site Location Map, **Figure 3** – Aerial Photograph, **Figure 4** – Site Plan, **Figure 5** – Digital Elevation Model, **Figure 6** – Soils Map, **Exhibit 1** – Copies of Site Photographs, and **Exhibit 2** – Routine Wetland Determination Data Forms – Atlantic and Gulf Coastal Plain Region.

PROJECT LOCATION & DESCRIPTION

The 47.38-acre Site is 2.01 miles southwest of Dequincy, Calcasieu Parish, Louisiana and centered at Latitude 30.436262°; Longitude -93.466239° (**Figure 1**). Access is via West 4th Street, Airpark Drive, and

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Lions Club Road. The Site is characterized by upland forest, potential palustrine forested (PFO), palustrine scrub-shrub (PSS), and palustrine emergent (PEM) wetlands, and potential Other Waters of the U.S.

SOILS

The NRCS Web Soil Survey was used to determine mapped soil series. The revised official series descriptions were used to confirm profile matrix, redox features, and texture of soils underlying the Site. The Web Soil Survey shows that the Site may be underlain by two soil map units. **Table 1** shows the soil map units' individual soil components, component percentage, and hydric status in Calcasieu Parish (NRCS Survey Area Data, Version 13, Oct 3, 2017).

Map Unit Name	Soil Series/Component	Component Percentage	Hydric status	
Cd: Caddo-Messer comple>	Cd: Caddo-Messer complex, 0 to 1 percent slopes			
	Caddo	50-65	Yes	
	Messer	20-35	No	
	Guyton	0-15	Yes	
	Glenmora	0-15	No	
Ge: Glenmora silt loam, 1 to 3 percent slopes				
	Glenmora	80-95	Yes	
	Messer	0-10	No	
	Caddo	0-5	Yes	
	Kinder	0-5	Yes	

Table 1: NRCS Web Soil Survey Data

Providence collected soil samples between the surface and approximately 16 inches. The depth of each sample was sufficient to determine changes in upper horizons and to observe field indicators of hydric soils. Based on field observations, the wetland criterion for hydric soils was met at seven of the 16 sample locations established by Providence to characterize the Site.

VEGETATION¹

Indicator statuses for the dominant vegetation on the Site consist of facultative upland (FACU), facultative (FAC), facultative wetland (FACW), and obligate (OBL) plant species. A complete list of species is included in the attached data forms (**Exhibit 2**). The wetland criterion for a prevalence of hydrophytic vegetation was met at 10 of the 16 sample locations established by Providence to characterize the Site.

HYDROLOGY

The Site is in the Upper Calcasieu watershed; within the USGS Hydrologic Unit Code (HUC) 08080203. Hydrology on the Site is influenced by rainfall and sheetflow in conformance with changes in elevation and backwater flooding

¹ Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014. *The National Wetland Plant List*: 2014 Update of Wetland Ratings. Phytoneuron 2014-41: 1-42

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from Calcasieu River. The primary and secondary indicators of wetland hydrology observed on the Site included, algal mat or crust, surface soil cracks, sediment deposits, oxidized rhizospheres on living roots, drainage patterns, crayfish burrows, geomorphic position, and FAC-Neutral test. The wetland criterion for hydrology was met at six of the 16 sample locations established by Providence to characterize the Site.

CONCLUSIONS

Positive evidence of all three diagnostic characteristics for wetlands was found at five of the 16 sample locations established to characterize the Site. Evidence of poor drainage found in association with hydric soils and predominantly hydrophytic vegetation was considered sufficient to confirm the presence of potential jurisdictional wetlands. It appears that approximately 4.92 acres of potential jurisdictional wetlands and approximately 6,180 linear feet of potential Other Waters of the U.S. are present on the Site.

As requested in the solicitation for wetland services provided to Providence on June 6, 2018, below are the responses to the following questions:

- 1. Do wetlands and/or other waterways exist on or near the site?
 - a. Yes, wetlands and other waters are present on the site and are included in the attached figures and shapefiles.
- 2. If wetlands are present, has a section 404 Permit Application been submitted to USACE?
 - a. No
- 3. If wetlands are present, has a section 404 Permit Application been received from USACE?
 - a. No
- 4. If wetlands are present, have all wetlands on the site been mitigated?
 - a. No
- 5. If wetlands are present, have all wetlands on the site been mitigated?
 - a. No

If you have any questions, please contact me at (225) 766-7400 or timkimmel@providenceeng.com.

Sincerely,

Sinothy Kiel

Tim Kimmel Environmental Scientist, AWS Providence Engineering and Environmental Group LLC 1201 Main Street Baton Rouge, Louisiana 70802

FIGURES





	<image/>	<image/>	A BANK
Legend	Aerial Ph	otograph	
Limits of Delineation (47.38 Acres) O Sample Locations	Vetland Data Re Preliminary Jurisdic	tional Determinatio	n
Potential Uther Waters of the U.S. (~6,180 Linear Feet) Potential Jurisdictional Wetlands (4.92 Acres)	SWI A Fconomic De		iance
PEM (1.39 Acres)	Dequincy Inc	dustrial Park	
PFO (2.10 Acres)		Drawn By TDJ Checked By TK	9/7/18 9/7/18
PSS (1.43 Acres)	10a	Approved By RS	9/7/18
Reference		Project Number	
Base map comprised of 2017 aerial photograph from	PROVIDENCE	Drawing Number	3
USDA/FSA - Aerial Photography Field Office.		1204-006-A006	Figure







EXHIBIT 1

COPIES OF SITE PHOTOGRAPHS

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #1A	
Direction: N/A	
Comments: View of soil profile at Sample Location 1.	
Photograph #1B	
Direction: East	
Comments: View of habitat and typical landscape feat at Sample Location 1.	ures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #2A	
Direction: N/A	
Comments: View of soil profile at Sample Location 2.	
Photograph #2B Direction: West	
Comments: View of habitat and typical landscape featu at Sample Location 2.	ures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #3A	
Direction: N/A	
Comments: View of soil profile at Sample Location 3.	
Photograph #3B	
Direction: East	
Comments: View of habitat and typical landscape feat at Sample Location 3.	rures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #4A	
Direction: N/A	
Comments: View of soil profile at Sample Location 4.	
Photograph #4B Direction: West	
Comments: View of habitat and typical landscape feat at Sample Location 4.	ures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #5A	
Direction: N/A Comments: View of soil profile at	
Sample Location 5.	
Photograph #5B	
Direction: South	
Comments: View of habitat and typical landscape feat at Sample Location 5.	rures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #6A	
Direction: N/A	
Comments: View of soil profile at Sample Location 6.	
Photograph #6B Direction: East	
Comments: View of habitat and typical landscape feat at Sample Location 6.	ures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #7A	
Direction: N/A	
Comments: View of soil profile at Sample Location 7.	
Photograph #7B Direction: South Comments: View of habitat and typical landscape featt at Sample Location 7.	

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #8A	
Direction: N/A	
Comments: View of soil profile at Sample Location 8.	
Photograph #8B Direction: East Comments: View of habitat and typical landscape featu at Sample Location 8.	<image/>

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #9A	
Direction: N/A	
Comments: View of soil profile at Sample Location 9.	Second a sec
Photograph #9B Direction: South	
Comments: View of habitat and typical landscape featu at Sample Location 9.	ures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #10A	
Direction: N/A	
Comments: View of soil profile at Sample Location 10.	
Photograph #10B	
Direction: North	
Comments: View of habitat and typical landscape feat at Sample Location 10	ures D.

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #11A	
Direction: N/A	
Comments: View of soil profile at Sample Location 11.	
Photograph #11B	
Direction: South	
Comments: View of habitat and typical landscape feate at Sample Location 11	ures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #12A	
Direction: N/A	
Comments: View of soil profile at Sample Location 12.	
Photograph #12B	
Direction: East	
Comments:	
View of habitat and typical landscape feat at Sample Location 12	ures 2.

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #13A	
Direction: N/A Comments: View of soil profile at Sample Location 13.	
Photograph #13B	
Direction: West	
Comments: View of habitat and typical landscape feat at Sample Location 13	ures 3.

	SWLA Economic Development Alliance
Site Name: Site Location:	Dequincy Industrial Park Calcasieu Parish, Louisiana
Date:	August 23, 2018
Photograph #14A	
Direction:	
N/A	
Comments:	
View of soil profile at	
Photograph #14B	
Direction:	
South	
Comments:	
View of habitat and	
typical landscape feate at Sample Location 14	ures

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #15A	
Direction: N/A Comments: View of soil profile at Sample Location 15.	
Photograph #15B Direction: North Comments: View of habitat and typical landscape feat at Sample Location 15	ures b.

	SWLA Economic Development Alliance
Site Name: Site Location: Date:	Dequincy Industrial Park Calcasieu Parish, Louisiana August 23, 2018
Photograph #16A	
Direction: N/A	
Comments: View of soil profile at Sample Location 16.	
Photograph #16B	
Direction: North	
Comments: View of habitat and typical landscape featu at Sample Location 16	ures

EXHIBIT 2

ROUTINE WETLAND DETERMINATION DATA FORMS – ATLANTIC AND GULF COASTAL PLAIN REGION

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Dequincy Industrial Park						Parish: Calcasieu			Sampling Date: Au		ugust 23	8, 2018
Applicant/Owner:		S	WLA E	Economic Develo	pment Alliance	State:			Louisiana	Sample Point:		SL1	
Investigator(s):	В	.McNab	b	and	T. Jones	Section, T	Section, Township, Range:			Sec. 23	3 - T7S -R11\	N	
Landform (hillslope,	terrace,	etc.):		Plain		Local relie	ef (conca	ave, convex	, none):	None	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30.4	3725	Long:	-93.46425	Datum:		NAD83
Soil Map Unit Name	:			Caddo-Messer	complex, 0 to 1	percent slo	opes		NWI Cla	assification:		None	
Are climatic / hydrole	ogic cond	ditions o	n the s	ite typical for this	time of year?	(Yes / No	o)	Yes	(if no, ex	plain in Rem	arks.)		
Are Vegetation	No	,Soil	No	or Hydrology,	No signi	ificantly dist	urbed?	Are "Norm	al Circumsta	nces" presen	t? Yes	x	No
Are Vegetation	No	,Soil	No	or Hydrology,	No natu	rally probler	matic?	(If needed, ex	kplain any an	swers in Rem	narks.)	

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

I								
Hydrophytic Vegetation Present?	Yes	No _	<u>X</u>					
Hydric Soil Present?	Yes	No _	<u> </u>	Is the Sampl	ed Area			
Wetland Hydrology Present?	Yes	No _	<u> </u>	within a Wet	land?	Yes	No	<u> </u>
Wetland Hydrology Present? Remarks: This point was determined not HYDROLOGY Wetland hydrology Indicator Primary Indicators (minimum	Yes of one is required; check 2)	due to th due to th all that Aqua Mari Mari Mari Aqua Aqua Mari Aqua Mari Aqua Mari Mari Mari Mari Mari Mari Mari Mar	X apply) atic Fauna (B Deposits (B' rogen Sulfide ized Rhizosp ence of Redu ent Iron Redu Muck Surfac	within a Wet three wetland cri (13) (LRR U) Odor (C1) oheres on Living uced Iron (C4) iction in Tilled So re (C7)	teria.	Yes econdary Indicate Surface Soil Sparsely Ve Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Seamornhic	No <u>ors (minimum o</u> Cracks (B6) getated Concav atterns (B10) ines (B16) Water Table (C rows (C8) isible on Aerial Position (D2)	x f two required) re Surface (B8) :2) Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Water-Stained Leaves	verial Imagery (B7) (B9)	_ Thin _ Othe	Muck Surfac	e (C7) Remarks)	 	Geomorphic Shallow Aqu FAC-Neutra Sphagnum r	: Position (D2) litard (D3) I Test (D5) noss (D8) (LRF	α T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Reserved Pate (attraction)	No X No X No X No X	_ De _ De _ De	epth (inches): epth (inches): epth (inches):	<u>N/A</u> <u>>20</u> <u>>20</u>	Wetland Hydrol	ogy Present?	Yes	_ No <u>X</u>
Remarks:	and hydrology was obse	vell, aeri						

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

		Absolute	Dominant	Indicator	Dominance Test v	vorksheet:			
ree Stratum (Plot size:	30 ft.)	% cover	Species?	Status	Number of Domina	nt Species			
None Observed	,				That Are OBL, FAC	CW. or FAC:		0	(A)
					,,	_			()
					Total Number of D	aminant			
						ominant		•	
·					Species Across All	Strata:		2	(B)
					Percent of Domina	nt Species			
			= Total Cover		That Are OBL, FAC	CW, or FAC:		0	(A/B)
	50% of total cover:		20% of total cover:						
Sapling Stratum (Plot size:	30 ft.)				Prevalence Index	Worksheet:			
None Observed	/				Total % (Cover of		Multiply by	
						n	v 1 –		<u> </u>
·						0			
·					FACW species		x 2 =		
					FAC species	0	x 3 =	0	
					FACU species	80	x 4 =	320	
					UPL species	0	x 5 =	0	
			= Total Cover		Column Totals:	80	(A)	320	(
	50% of total cover:		20% of total cover:						
Shrub Stratum (Plot size:	30 ft.)				Prevalence	e Index = B/A =		4.00	
None Observed									
					Lludrophytic Vere	totion Indianta			
					Hydrophytic vege		rs:		
·					1 - Rapid	lest for Hydrop	hytic Ve	getation	
·					2 - Domin	ance Test is >50	0%		
i					3 - Preval	ence Index is ≤	3.0 ¹		
i					Problemat	tic Hydrophytic \	Vegetati	ion ¹ (Explain)
			= Total Cover						
	50% of total cover:		20% of total cover:		¹ Indicators of hyd	ric soil and wetla	and hyd	rology must	
Herb Stratum (Plot size:	50% of total cover: 30 ft.)		20% of total cover:		¹ Indicators of hyd be present, unless	ric soil and wetla disturbed or pro	and hyd oblemati	rology must ic.	
Herb Stratum (Plot size:	50% of total cover: 30 ft.)		20% of total cover:	EACU	¹ Indicators of hyd be present, unless Definitions of Five	ric soil and wetla disturbed or pro	and hyd oblemati rrata:	rology must ic.	
<u>Herb Stratum</u> (Plot size:	50% of total cover: 30 ft.)	60	20% of total cover:	FACU	¹ Indicators of hyd be present, unless Definitions of Five	ric soil and wetla disturbed or pro Vegetation St	and hyd oblemati r rata:	rology must	
<u>Herb Stratum</u> (Plot size: . <u>Paspalum notatum</u> . Euphorbia maculata	50% of total cover: 30 ft)	<u>60</u> 20	20% of total cover: Yes Yes	FACU FACU	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar	ric soil and wetla disturbed or pro Vegetation St nts, excluding we	and hyd oblemati rata: oody vir	rology must ic. nes,	
<u>Herb Stratum</u> (Plot size: . <i>Paspalum notatum</i> . Euphorbia maculata	50% of total cover: 30 ft)	60 20	20% of total cover: Yes Yes	FACU FACU	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft	ric soil and weth disturbed or pro Vegetation St hts, excluding we t (6m) or more ir	and hyd oblemati t rata: oody vir n height	rology must ic. nes, and 3 in.	
<u>Herb Stratum</u> (Plot size: . <i>Paspalum notatum</i> . <i>Euphorbia maculata</i>	50% of total cover: 30 ft)	<u>60</u> 20	20% of total cover: <u>Yes</u> <u>Yes</u>	FACU FACU	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in	ric soil and weth disturbed or pro Vegetation St nts, excluding wo t (6m) or more ir n diameter at bro	and hyd oblemati r rata: oody vir n height east hei	irology must ic. nes, and 3 in. ight (DBH).	
<u>Herb Stratum</u> (Plot size: . <i>Paspalum notatum</i> . <i>Euphorbia maculata</i> 	50% of total cover: 30 ft)	60 20	20% of total cover: <u>Yes</u> <u>Yes</u> <u></u>	FACU FACU	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in	ric soil and wetla disturbed or pro- e Vegetation St hts, excluding we t (6m) or more ir n diameter at bro	and hyd oblemati rata: oody vir n height east hei	rology must ic. nes, and 3 in. ight (DBH).	
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Herb Stratum (Plot size:	50% of total cover: 30 ft)	60 20 	20% of total cover: Yes 		¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody pla approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody pla approximately 3 to	ric soil and wetla disturbed or pro- e Vegetation St nts, excluding we t (6m) or more ir n diameter at bro- plants, excluding t (6 m) or more i DBH. ants, excluding v 20 ft (1 to 6 m) i	and hyd bblemati rata: oody vir n height east hei g woody n heigh woody v in heigh	irology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t.	
Herb Stratum (Plot size:	50% of total cover: 30 ft)	60 20 	20% of total cover: <u>Yes</u> <u>Yes</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>		 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody play approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody play approximately 3 to Herb - All herbaced 	ric soil and wetla disturbed or pro- e Vegetation St thts, excluding we t (6m) or more ir n diameter at bro- plants, excluding t (6 m) or more i DBH. ants, excluding w 20 ft (1 to 6 m) i pous (non-woody	and hyd oblemati rata: oody vir n height east hei g woody n heigh woody v in heigh	rology must ic. nes, and 3 in. ght (DBH). vines, t and less ines, t. , including	
Herb Stratum (Plot size:	50% of total cover: 30 ft) 50% of total cover: 50% of total cover: 30 ft)	60 20 	20% of total cover: <u>Yes</u> <u>Yes</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> = Total Cover 20% of total cover:		 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody p approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody pla approximately 3 to Herb - All herbaced herbaceous vines, 	ric soil and wetla <u>disturbed or pro</u> 2 Vegetation St thts, excluding we t (6m) or more ir n diameter at bro- plants, excluding we t (6 m) or more i DBH. ants, excluding we 20 ft (1 to 6 m) i pous (non-woody regardless of si	and hyd oblemati rata: oody vir n height east hei g woody n heigh woody v in heigh voody v in heigh	rology must ic. nes, and 3 in. ght (DBH). vines, t and less ines, t. , including woody	
Herb Stratum (Plot size:	50% of total cover: 30 ft.)	<u>60</u> 20 	20% of total cover: Yes = Total Cover 20% of total cover:		 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody play approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody play approximately 3 to Herb - All herbaced herbaceous vines, plants, except woo 	ric soil and wetla <u>disturbed or pro</u> a Vegetation St thts, excluding we t (6m) or more ir n diameter at bru- plants, excluding we t (6 m) or more i DBH. ants, excluding w 20 ft (1 to 6 m) i pous (non-woody regardless of si dy vines, less th	and hyd oblemati rata: oody vir n height east hei g woody n heigh voody v in heigh voody v in heigh voody v in heigh	rology must ic. nes, and 3 in. ght (DBH). vines, t and less ines, t. , including woody roximately	
Herb Stratum (Plot size:	50% of total cover: 30 ft) 50% of total cover: 50% of total cover: 2:30 ft)	<u>60</u> 20 	20% of total cover: Yes = Total Cover 20% of total cover: 		 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody play approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody play approximately 3 to Herb - All herbaced herbaceous vines, plants, except woo 3 ft (1 m) in height. 	ric soil and wetla disturbed or pro- e Vegetation St nts, excluding we t (6m) or more ir n diameter at bro- plants, excluding t cl6m) or more i DBH. ants, excluding v 20 ft (1 to 6 m) i ous (non-woody regardless of si dy vines, less th	and hyd oblemati rata: oody vir n height east hei g woody n heigh voody v in heigh voody v in heigh voody v in heigh	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately	
Herb Stratum (Plot size:	50% of total cover: 30 ft) 50% of total cover: 50% of total cover: 2:30 ft)	60 20 	20% of total cover: Yes = Total Cover 20% of total cover: 		¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody play approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody play approximately 3 to Herb - All herbaced herbaceous vines, plants, except woo 3 ft (1 m) in height.	ric soil and wetla <u>disturbed or pro</u> a Vegetation St nts, excluding we t (6m) or more ir n diameter at bro- plants, excluding t t (6 m) or more i DBH. ants, excluding v 20 ft (1 to 6 m) i ous (non-woody regardless of si dy vines, less th	and hyd oblemati rata: oody vir n height east hei g woody n heigh voody v in heigh voody v in heigh voody v in heigh	rology must ic. nes, and 3 in. ght (DBH). vines, t and less ines, t. , including woody roximately	
Herb Stratum (Plot size:	50% of total cover: 30 ft) 50% of total cover: 50% of total cover: 2:	<u>60</u> 20 	20% of total cover: <u>Yes</u> <u>Yes</u> <u></u>	FACU FACU	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody pla approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody pla approximately 3 to Herb - All herbaced herbaceous vines, plants, except woo 3 ft (1 m) in height.	ric soil and wetla <u>disturbed or pro</u> a Vegetation St nts, excluding we t (6m) or more ir n diameter at bro- plants, excluding we t (6 m) or more i DBH. ants, excluding w 20 ft (1 to 6 m) i ous (non-woody regardless of si dy vines, less the woody vines, reg	and hyd <u>oblemati</u> rata: oody vir n height east hei y woody v in heigh woody v in heigh voody v in heigh voody v in heigh an appl ardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately	
Herb Stratum (Plot size:	50% of total cover: 30 ft) 50% of total cover: 50% of total cover: 30 ft)	<u>60</u> 20 	20% of total cover: <u>Yes</u> <u>Yes</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>		 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody play approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody play approximately 3 to Herb - All herbaceeus herbaceous vines, plants, except woo 3 ft (1 m) in height. Woody vine - All w 	ric soil and wetla <u>disturbed or pro</u> e Vegetation St nts, excluding we t (6m) or more ir n diameter at bro- plants, excluding we t (6 m) or more i DBH. ants, excluding w 20 ft (1 to 6 m) i ous (non-woody regardless of si dy vines, less th voody vines, reg	and hyd <u>oblemati</u> rata: oody vir n height east hei y woody v in heigh woody v in heigh voody v in heigh han appr jardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
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Herb Stratum (Plot size:	50% of total cover: 30 ft) 50% of total cover: 50% of total cover: 30 ft)	<u>60</u> 20 	20% of total cover: Yes _		 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody play approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody play approximately 3 to Herb - All herbaced herbaceous vines, plants, except woo 3 ft (1 m) in height. Woody vine - All w Hydrophytic 	ric soil and wetla disturbed or pro- e Vegetation St nts, excluding we t (6m) or more ir n diameter at bro- plants, excluding w t (6 m) or more i DBH. ants, excluding w 20 ft (1 to 6 m) i ous (non-woody regardless of si dy vines, less th voody vines, reg	and hyd <u>oblemati</u> rata: oody vir n height east hei y woody v in heigh woody v in heigh voody v in heigh y plants ize, <u>and</u> han appl yardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
Herb Stratum (Plot size:	50% of total cover: 30 ft.) 50% of total cover: 50% of total cover: 2: 30 ft.) 50% of total cover:	<u>60</u> 20 	20% of total cover: Yes _	FACU FACU	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ft (7.6 cm) or larger in Sapling - Woody play approximately 20 ft than 3 in. (7.6 cm) Shrub - Woody play approximately 3 to Herb - All herbaced herbaceous vines, plants, except wood 3 ft (1 m) in height. Woody vine - All weight Hydrophytic Vegetation 	ric soil and wetla disturbed or pro- e Vegetation St nts, excluding we t (6m) or more ir n diameter at bro- plants, excluding w t (6 m) or more i DBH. ants, excluding w 20 ft (1 to 6 m) i ous (non-woody regardless of si dy vines, less th voody vines, reg	and hyd <u>oblemati</u> rata: oody vir n height east hei y woody v in heigh woody v in heigh voody v in heigh y plants ze, <u>and</u> han appu yardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
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Herb Stratum (Plot size:	50% of total cover: 30 ft) 50% of total cover: 50% of total cover: 30 ft) 50% of total cover: 50% of total cover:	<u>60</u> 20 	20% of total cover: Yes = Total Cover 20% of total cover: = Total Cover 20% of total cover:		 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 ff (7.6 cm) or larger in Sapling - Woody play approximately 20 ff than 3 in. (7.6 cm) Shrub - Woody play approximately 3 to Herb - All herbaced herbaceous vines, plants, except wood 3 ft (1 m) in height. Woody vine - All weight Hydrophytic Vegetation Present? 	ric soil and wetla disturbed or pro- b Vegetation St nts, excluding we t (6m) or more ir n diameter at bro- plants, excluding we t (6 m) or more i DBH. ants, excluding w 20 ft (1 to 6 m) i pous (non-woody regardless of si dy vines, less the voody vines, reg	and hyd <u>oblemati</u> rata: oody vir n height east hei y woody v in height voody v in height voody v in height y plants <u>ize, and</u> han appl jardless No	rology must ic. hes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	

Dist Other Less	epun ches)	Color (moist)	%	Color (moist)	%	Type ¹		Texture	Remarks
In the second seco	0-16	10YR 5/3	90	10YR 5/8	10	<u> </u>	M	Silt	
microsoft	0-10								
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ¹ Location: PL=Pore Lining, M=Matarix. Inflactors: (Applicable to all LR8, unless otherwise noted.) Inflactors (CA) Histo Expection (A2) Depletion Ration (F) (LRR 0) 1 Histo Expection (A2) Loamy Gloyed Matrix (F2) 1 On Mack (A9) (LRR 1) Back Histor (A3) Loamy Gloyed Matrix (F2) Piedmont Floodplain Solis (F10) (LRR 7, 50) Red Darent Material (A7) (LRR 7, 50) Granic Bodie (A4) Loamy Gloyed Matrix (F2) Piedmont Floodplain Solis (F10) (LRR 7, 50) Granic Mack (A8) (LRR 1) Granic Bodie (A6) (LRR 7, 10) Redote Depressions (F8)									
ge: C-Concentration, D-Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Lacaton: PL=Pore Lining, M=Mastrix. Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils?: Histice Capedion (A2) Thin Dark Surface (SP) (LRR S, T, U) 2 on Muck (A10 (LRR O)) Black Histic (A3) Loamy Micky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A) Stratified Layers (A8) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S) Sort Mucky Mineral (A1) Reduce (F7) Reduce (F7) Goan Mucky Mineral (A1) Poleided Dark Surface (F7) Reduce (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F12) Other (Explain in Ramarks) Depleted Below Dark Surface (A12) Depleted Dark Surface (F12) (LRR P, T, U) Other (Explain in Ramarks) Sandy Mucky Mineral (S1) (LRR P, S) Reduce Vertic (F13) (MLR A 150) Other (Explain in Ramarks) Sandy Mucky Mineral (S1) (LRR P, S), U) Depleted Orthic (F11) (MLR A 150) Indicators of Pydrophylic vegetation and welland hydrology must be present. unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR P, S, T, U) Deblet Orthic (F11) (MLR A 150) Indicators of Pydrophylic vegetation and welland hydrology must be present. unless disturbed or problematic. Sand									
pp: C=Concentration, D=Depiction, RM=Reduced Matrix, MS=Masked Sand Grains. ¹ Costain: PL=Pore Lining, M=Matrix. mic Stall Indicators: (Applicable to all LRR, unless otherwise noted.) Indicators for Problematic Hydric Solis ¹ : mic Stall Indicators: (Applicable to all LRR, unless otherwise noted.) Indicators for Problematic Hydric Solis ¹ : Mistic Epipedon (A2) Linit Dark Surface (15) (LRR 5, T, U) Comparite Solids (A4) Hydrogen Sulfde (A4) Learny Gleyod Matrix (F2) Peidmont Picodplands Solig (F10) (LRR 7, I) Organic Botles (A6) (LRR 7, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck (A9) (LRR 7, T) Depleted Obric (F11) (MLRA 151) Depleted Obric (F11) (MLRA 151) This Loards Varia (A4) (LRR 7, T, U) Matrix (F10) (LRR 7, 51) Peidmont Picodplant Solia (F10) (MLRA 151) This Loards Varia (A63) Loarny Gleyod Matrix (F2) Const Proint Reduc (A16) (MLR A154) Sandy Mucky Mineral (S1) (LRR 0, S) Detain Chine (A16) (MLRA 150) Parent Material (TF2) Sandy Mucky (S5) Pedemont Picodplant Solis (F10) (MLRA 154) Parent Material									
ge: C=Concentration. D=Depietion, RM=Reduced Matrix, MS=Maaked Sand Grains. *Location: PL=Pore Lining, M=Matrix. inficitors: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histes (A1) —Polyvalue Below Surface (S9) (LRR S, T, U) I cm Muck (A10) (LRR G) Black Histic (A2) —In Dark Surface (S9) (LRR S, T) — Reduced Verd (F18) (Gutside MLRA 150A) Granic Bodies (A6) (LRR P, T, U) — Depieted Dark Surface (F6) — Anomalous Bright Leamy Soils (F20) Granic Bodies (A6) (LRR P, T, U) — Depieted Dark Surface (F17) — Reduced Verd (F12) Depieted Dark Surface (F10) — Control Floodplan Soils (F10) — Anomalous Bright Leamy Soils (F20) Muck Presence (A8) (LRR P, T, U) — Depieted Dark Surface (F10) — Machariae (T71) Depieted Barkov Dark Surface (T11) — Depieted Dark Surface (F10) — Very Shallow Dark Surface (T12) Const Dyrakines (A51) — Depieted Dark Surface (F10) — Very Shallow Dark Surface (T12) — Very Shallow Dark Surface (T12) Const Dyrakines (A6) (LRR P, T, U) — Depieted Dark Surface (F11) (MLRA 151) — Ponetematics — Ponetematics Sandy Nerved Matrix (S4) — Reduced Vertic (F13) (LRR P, T, U) — Depieted Dark Surface (F13) (LRR P, T, U) — Nomate									
pre: Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ¹ location: PL=Pore Lining, M-Matrix. dric Solls Indicators: (Appletable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls': Indicators for Problematic Hydric Solls': Histoc (H1) Polyrable Below Surface (B3) (LRR S, T, U) Indicators for Problematic Hydric Solls': Histoc (H2) Thin Dark Surface (B3) (LRR C), Indicators for Problematic Hydric Solls': Hydrogen Suffac (A3) Learny Gleyed Matrix (F2) Periomon Floopian Solis (F10) (LRR P, S, Grantic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Matrix (F2) Grantic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F11) Red Parent Matrix (F2) Muck Presence (A1) Depleted Dark Surface (F12) (LRR O, P, T) Perieton Strino (F11) (MLRA 150) Thick Dark Surface (A1) Depleted Dark Surface (F12) (LRR O, P, T) Perieton Strino (F1) Goast Pariaic Rodox (A16) (ILR O, S) Perieton Strino (F11) (MLRA 150) Perieton Strino (F11) (MLRA 150, 1509) Sandy Micky Mineral (S1) (LRR O, S) Reduced Vertic (F16) (MLRA 150A, 150A)									
dric Soli Indicators (Applicable to all LRRs, unless otherwise noted.) Histoc Epideon (A2) Histoc Epideon (A2) Black Histic (A3) Black Hi	/pe: C=Co	oncentration, D=Dep	oletion, RM=	Reduced Matrix, I	MS=Maske	Sand Grains.	² Location: PL	=Pore Lining, M=M	atrix.
Histics Expleadin (A2) Polyvalue Below Surface (S9) (LRR S, T, U) 1 cm Muck (A0) (LRR O) Black Histic (A3) Loamy Mucky Mineral (F1) (LRN S, T, U) 2 cm Muck (A10) (LRR S) Straffied Layers (A5) Depleted Matrix (F2) Pedmont Flootpian Solis (F12) (LRP P, T, U) Straffied Layer (A6) Depleted Matrix (F3) Anomalous Bright Loamy Solis (F20) Muck Ymaence (A8) (LRP, T, U) Redox Depresaions (F8) Red Parent Material (TF12) Muck Ymaence (A8) (LRR U) Redox Depresaions (F8) Very Shallow Dark Surface (T71) Muck Ymaence (A8) (LRR U) Redox Depresaions (F8) Very Shallow Dark Surface (T72) Tom Mucky Mineral (A7) (LRR A (50), LRR 0, S) Depleted Dark Surface (F12) (LRR 0, F1, U) Other (Explain in Remarks) Depleted Matrix (S4) Reduced Veric (F13) (LRR 7, F1, U) Imbrite Surface (T13) (LRR 7, F1, U) Imbrite Surface (T13) (LRR 150), 150B) Sandy Mucky Mineral (S1) (LRR 0, S) Delta Ochric (F17) (MLRA 150A, 150B) Imbrite Surface (T3) (LRR 7, S1, U) Imbrite Surface (T3) (LRR 7, S1, U) etrictive Layer (If observed): Type: No _ X Type: Depleted Ochric (S17) (LRR 0, S) Pedmont Floodpinal Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S5) Phetomont Floodpinal Solis (F10) (MLRA 149A, 153C, 153D) No _	dric Soils	Indicators: (Appl	icable to all	LRRs, unless ot	herwise no	ted.)		Indicators for Pro	oblematic Hydric Soils ³ :
Heite Epipeden (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F16) (Jourside MLRA 150A) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F2) Pledmont Floodplain Solis (F20) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR V, T) Marl (F10) (LRR V) Pledmont Floodplain Solis (F20) 1 cm Muck (A6) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) 1 cm Muck (A6) (LRR V, T) Marl (F10) (LRR V) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Thino-Maragenee Masses (F12) (LRR 0, P, T, U) Sind Mucky Mineral (S1) (LRR 0, S) Sandy Mucky Mineral (S1) (LRR 0, S) Depleted Ochric (F17) (MLRA 151) ³ Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR 0, S) Depleted Ochric (F17) (MLRA 150) ³ Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR 0, S) Deleted Veric (F13) (MLRA 150, 150B) ³ Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR 0, S) Deleted Chric (Histoso	I (A1)		Polyva	lue Below S	Surface (S8) (L	RR S, T, U)	1 cm Muck (A	A9) (LRR O)
Black Halic (A)	_ Histic E	pipedon (A2)		Thin D	ark Surface	e (S9) (LRR S,	T, U)	2 cm Muck (A	A10) (LRR S)
Lydrogen Suffide (A4) Loamy Gleyed Matrix (F2) Piedmonth Solis (F19) (LRR P, 1) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) S cm Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F2) Red Parent Material (TF2) Muck Presence (A8) (LRR V) Redox Depressions (F8) Very Shallow Dark Surface (F12) I cm Muck (A8) (LRR P, T) Marl (F10) (LRR N) Other (Explain in Remarks) Depleted Bolow Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Timk bark Surface (A12) Gandy Mucky Mineral (S1) (LRR O, S) Bole Icchnic (F12) (MLRA 151) "Indicators of hydrophytic vegetation and velocities (F13) (MLRA 151) Sandy Mucky Mineral (S1) (MLR O, S) Debleted Overic (F13) (MLRA 150) unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Debleta Chric (F13) (MLRA 150, 150) Simped Matrix (S4) Sandy Rocky Matrix (S6) Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LR P, S, T, U) Stripted Matrix (S6) Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LR P, S, T, U) Deph (inches):	_Black H	istic (A3)		Loamy	/ Mucky Mir	eral (F1) (LRR	0)	Reduced Ver	tic (F18) (outside MLRA 150A,
Stratified Layers (A5) Depleted Matrix (F3)	Hydroge	en Sulfide (A4)		Loamy	Gleyed Ma	ıtrix (F2)		Piedmont Flo	odplain Soils (F19) (LRR P, S,
Organic Bodies (Ab) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Som Mucky (Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Yesence (A8) (LRR P, T) Mari (F10) (LRR U) Other (Explain in Remarks) Depleted Boths Warks (A11) Depleted Christ (F11) (MLRA 151) Thick Dark Surface (A12) Other (Explain in Remarks) Cost Praine Redox (A16) (MLRA 150A) Umbric Surface (F12) (LRR P, T, U) ⁹ Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic. Sandry Mucky (Mineral (S1) (LRR P, S) Delta Ochric (F11) (MLRA 150A) Second Praine Redox (A13) Sandry Mucky (Mineral (S1) (LRR P, S) Delta Ochric (F11) (MLRA 150A) (S15B) Pedmont Floodplain Soils (F19) (MLRA 149A) Sandry Mucky (R6) Pedmont Floodplain Soils (F19) (MLRA 149A) Second Present? Yes No X Sandry Kusky (If observed): Type: Mucri (F10 kusk 149A) No X Type: Depth (inches): No X Mark Size (S1) No X positive indication of hydric soils was observed. Size (S1) Hydric Soil Present? Yes No X	Stratifie	d Layers (A5)		Deplet	ed Matrix (I	-3)		Anomalous E	Bright Loamy Soils (F20)
	Organic	Bodies (A6) (LRR	P, T, U)	Redox	Dark Surfa	ce (F6)		(MLRA 153B	5)
Muck Presence (A8) (LRR U)	5 cm M	ucky Mineral (A7) (L	.RR P, T, U)	Deplet	ed Dark Su	rface (F7)		Red Parent N	Naterial (TF2)
I om Muck (A9) (LRK P, T) Mari (F10) (LRK U) Other (Explain in Remarks) Depleted Dark Surface (A11) Indicators of hydrophytic vegetation and metal diversion of hydrophytic soils was observed.	Muck P	resence (A8) (LRR	U)	Redox		ns (F8)		Very Shallow	Dark Surface (TF12)
Lepieted below Dark Surface (A11)Depieted Ochnic (+11) (MLRA 151)indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleved Matrix (S4)Debied Ochnic (+17) (MLRA 151)Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleved Matrix (S4)Deta Ochnic (+17) (MLRA 151)Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleved Matrix (S4)Deta Ochnic (+17) (MLRA 151)Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleved Matrix (S6)Dedmont Floodplain Solls (F19) (MLRA 149A)Deta Surface (S7) (LRR P, S, T, U)	1 cm M	uck (A9) (LRR P, T)		Marl (F	-10) (LRR I	J)	• •	Other (Explai	in in Remarks)
Inicidan's of hydrophyde veglaulon and Cocast Parlie Redox (A16) (NLRA 150A) Sandy Mucky Mineral (S1) (LRR 0, S) Sandy Kedox (S5) Delta Ochric (F17) (MLRA 151) Sandy Kedox (S5) Dark Surface (S7) (LRR 0, S, T, U) strictive Layer (If observed): Type: Depth (inches): positive indication of hydric soils was observed.	Deplete	d Below Dark Surfa	ce (A11)	Deplet	ed Ochric (F11) (MLRA 1	51)	31	- f haad aan haad ah
Oast Praine Redox (Arb) (MLRA 150)	_ Thick D	ark Surface (A12)		Iron-M	anganese l	Aasses (F12)		wetland hy	drology must be present
	_ Coast P	rairie Redox (A16)	(MLRA 1504	A) Umbrid	c Surface (F Cobrig (E17	·13) (LRR P, I	, U)	unless dist	turbed or problematic.
	_ Sandy (Cloved Metrix (S4)	(LKK 0, 3)	Deila (od Vortic (F17	(IVILKA 151) (18) (MI DA 15	0A 150B)		
	_ Sandy E	2 odox (95)		Reduc	ont Floodni		(MI RA 1/9A)		
	Stripper	Matrix (S6)		1 icum 	alous Bright	Loamy Soils ((MI RA 149 20) (MI RA 149	A 153C 153D)	
strictive Layer (if observed): Type: Depth (inches): Mydric Soil Present? Yes No X marks: positive indication of hydric soils was observed.	_ Ourppet	urface (S7) (I RR P	S T III	/ "101116	alous bright	Louiny Cons (20) (MERA 143	A, 1000, 100D)	
Type:			0, 1, 0,						
Iype:		ever (if chooried)							
Hydric Soil Present? Yes No marks:	estrictive I	Layer (if observed)	:						
marks: positive indication of hydric soils was observed.	estrictive I	Layer (if observed)	:				Underie	Soil Present? Ve	- No Y
positive indication of hydric soils was observed.	strictive I Type: Depth (ind	Layer (if observed)	:				Hydric	Soil Present? Ye	s NoX
positive indication of hydric soils was observed.	estrictive I Type: Depth (ind	Layer (if observed)	:				Hydric	Soil Present? Ye	s No X
	estrictive I Type: Depth (inc	Layer (if observed)	:				Hydric	Soil Present? Ye	s No X
	Dank St strictive I Type: Depth (ind marks:	Layer (if observed)	: oils was obs	served.			Hydric	Soil Present? Ye	s No X
	sstrictive I Type: Depth (ind marks:	Layer (if observed)	i i i i i i i i i i i i i i i i i i i	erved.			Hydric	Soil Present? Ye	s NoX
	strictive I Type: Depth (ind marks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	sNoX
	positive in	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	sNoX
	positive in	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s NoX
	sstrictive I Type: Depth (ind	Layer (if observed)	oils was obs	erved.			Hydric	Soil Present? Ye	s No X
	sstrictive I Type: Depth (inc marks:	Layer (if observed)	oils was obs	erved.			Hydric	Soil Present? Ye	s <u>No X</u>
	Dark St estrictive I Type: Depth (ind marks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s No X
	Dark St estrictive I Type: Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s <u> </u>
	Dank St estrictive I Type: Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s No X
	Dark St estrictive I Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s No <u>X</u>
	Dank St estrictive I Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s <u> No X</u>
	Dank St estrictive I Depth (ind emarks:	Layer (if observed)	oils was obs	erved.			Hydric	Soil Present? Ye	s <u> No X</u>
	Dank St estrictive I Depth (ind emarks:	Layer (if observed)	oils was obs	erved.			Hydric	Soil Present? Ye	s <u>No X</u>
	Dank St estrictive I Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s <u> No X</u>
	Dank St estrictive I Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s <u>No X</u>
	Dank St estrictive I Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s No X
	Dank St estrictive I Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s No X
	Dank St estrictive I Type: Depth (ind emarks:	Layer (if observed)	oils was obs	erved.			Hydric	Soil Present? Ye	s No X
	Dank St estrictive I Type: Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s No X
	Dank St estrictive I Type: Depth (ind emarks:	Layer (if observed)	oils was obs	served.			Hydric	Soil Present? Ye	s No X

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Dequincy Industrial Park					Parish:		Calcasie	u	Sampling D	ate: Au	ugust 23	, 2018
Applicant/Owner:	SWLA Economic Development Alliance					e	State: Louisiana Sample Poi			oint:			
Investigator(s):	В.	.McNab	C	and	T. Jones	Section, T	ownshi	p, Range:		Sec. 23	3 - T7S -R11\	N	
Landform (hillslope,	terrace, e	etc.):		Depressior	ı	Local relie	ef (conca	ave, convex,	none):	Concave	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30.4	43689	Long:	-93.46426	Datum:		NAD83
Soil Map Unit Name	:			Caddo-Messer	complex, 0 to	1 percent slo	pes		NWI	Classification:		None	
Are climatic / hydrole	ogic cond	litions o	n the si	te typical for this	time of year?	Yes / No	o)	Yes	(if no,	explain in Rem	arks.)		
Are Vegetation	No	,Soil	No	,or Hydrology	No sig	nificantly distu	urbed?	Are "Norma	al Circums	tances" presen	t? Yes	X	10
Are Vegetation	No	,Soil	No	,or Hydrology	No na	turally problen	natic?	(lf needed,	explain any an	swers in Rem	arks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Sampl within a Wet	ed Area land?	Yes X	No
Remarks:						
This point was determined to be	e within a wetland due	e to the presence of al	l 3 wetland criter	ia.		
HYDROLOGY						
Wetland hydrology Indicators	S:				Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of	one is required; cheo	k all that apply)	40)		Surface Soil Crac	ks (B6)
Surface Water (A1)		Aquatic Fauna (B Marl Deposits (B:	13) (1 PP II)		Sparsely Vegetati	
Saturation (A3)		Hvdrogen Sulfide	Odor (C1)		Moss Trim Lines	(B16)
Water Marks (B1)		Oxidized Rhizosp	heres on Living	Roots(C3)	Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)		Presence of Redu	uced Iron (C4)	()	X Crayfish Burrows	(C8)
Drift Deposits (B3)		Recent Iron Redu	ction in Tilled Se	oils (C6)	Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Thin Muck Surfac	e (C7)		X Geomorphic Posi	tion (D2)
Iron Deposits (B5)		Other (Explain in	Remarks)		Shallow Aquitard	(D3)
Inundation Visible on Aer	ial Imagery (B7)				X FAC-Neutral Test	(D5)
Water-Stained Leaves (E	39)				Spnagnum moss	(D8) (LRR 1, U)
Field Observations:						
Surface Water Present? Yes	No X	Depth (inches):	N/A			
Water Table Present? Yes _	No	Depth (inches):	>20			
Saturation Present? Yes _ (includes capillary fringe)	No	Depth (inches):	>20	Wetland Hy	drology Present? Yes	s <u>X</u> No
Describe Recorded Data (strea	m gauge, monitoring	well, aerial photos, pro	evious inspectio	ns), if available	e:	
Remarks:						
A positive indication of wetland	hydrology was obser	ved (at least one prim	ary indicator). ndany indicators)		
	nyarology was obser					

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

Sampling Point:

SL2

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:	30 ft.)	% cover	Species?	Status	Number of Dominant Species		
1. None Observed	,				That Are OBL, FACW, or FAC:	5	(A)
2.							
3.					Total Number of Dominant		
4					Species Across All Strata:	5	(B)
5							
6					Percent of Dominant Species		
			= Total Cover		That Are OBL, FACW, or FAC:	100%	(A/B)
	50% of total cover:		20% of total cover:				
Sapling Stratum (Plot size:	<u> 30 ft. </u>)				Prevalence Index Worksheet:		
1. None Observed					Total % Cover of:	Multiply by	:
2					OBL species 95	x 1 =95	
3					FACW species140	x 2 = 280	
4			·		FAC species 70	x 3 = 210	
5					FACU species 0	x 4 =	
6					UPL species 0	x5=0	
			= Total Cover		Column Totals: 305	(A) <u>585</u>	(B)
.	50% of total cover:		20% of total cover:				
Shrub Stratum (Plot size:	<u> 30 ft. </u>)				Prevalence Index = B/A	=1.92	
1. <u>Cephalanthus occidentalis</u>		10	Yes	OBL			
2. Baccharis halimitolia		10	Yes	FAC	Hydrophytic Vegetation Indicat	ors:	
3			·		1 - Rapid Test for Hydro	phytic Vegetation	
4					X 2 - Dominance Test is >	50%	
5			·		X 3 - Prevalence Index Is s	≤ 3.0° Manatatian 1 (⊑umlain	
6						vegetation (Explain	1)
	500/ 61 11	20	= Total Cover		1		
Userb Chasterne (Distainer	50% of total cover:	10	20% of total cover:	4	Indicators of hydric soil and we	tiand hydrology must	
<u>Herb Stratum</u> (Plot size.	<u> </u>	60	Vee	EAC	Definitions of Fixe Vegetation S		
		60	Yes		Definitions of Five Vegetation s	otrata:	
2. <u>Rhynchospora inexpansa</u>		<u> </u>	Yes		annrevimetely 20 ft (6m) or more	in beight and 2 in	
		25			(7.6 cm) or larger in diameter at h	in neight and 3 in.	
4. <u>Juncus enusus</u>			<u> </u>		(7.6 cm) of larger in diameter at b	reast neight (DBH).	
5. <u>Rilexia manana</u>			<u> </u>		Sapling - Woody plants, excludin	a woody vines.	
7 Eriosoulon docongularo		25	No		approximately 20 ft (6 m) or more	in height and less	
o		20	NO		than 3 in. (7.6 cm) DBH.	g	
8:			· · · · · · · · · · · · · · · · · · ·				
9					Shrub - Woody plants, excluding	woody vines,	
11			·		approximately 3 to 20 ft (1 to 6 m) in height.	
· · ·		285	= Total Cover			Ū	
	50% of total cover:	142 5	20% of total cover:	57	Herb - All herbaceous (non-wood	ly) plants, including	
Woody Vine Stratum (Plot size	· 30 ft)	142.0			herbaceous vines, regardless of	size, <u>and</u> woody	
1 None Observed	. <u> </u>				plants, except woody vines, less	than approximately	
2.			·		3 ft (1 m) in height.		
3.			·				
4.					Woody vine - All woody vines, re	gardless of height.	
5.							
			= Total Cover		Hydrophytic		
	50% of total cover:		20% of total cover:		Vegetation		
			-		Present? Yes X	No	
Remarks: (if observed, list m	orphological adaptat	ions below	/).				
A positive indication of hydro	phytic vegetation was	s observed	l (>50% of dominant	species inde	exed as OBL, FACW, or FAC).		
A positive indication of hydro	phytic vegetation was	s observed	I (Prevalence Index	is ≤ 3.00).			

epth	Matrix		Redox F	eatures							
nches)	Color (moist) %		Color (moist)	_%	Type ¹	Loc ²	Texture	Remarks			
0-16	10YR 5/1	80	7.5YR 4/6		C	M&PL	Silt				
Type: C=Co	oncentration, D=Dep	pletion, RM	=Reduced Matrix, N	/IS=Maske	d Sand Grains	Location: P	L=Pore Lining, M=Mat	rix.			
ydric Solls	Indicators: (Appl	icable to a	II LRRs, unless of	nerwise no	oted.)		Indicators for Prot	olematic Hydric Soils":			
Histosol	(A1)		Polyva	IUE BEIOW :	Surface (S8) (I	_RR S, I, U)					
Histic E	pipedon (A2)			ark Surface	e (59) (LRR S,	1, 0)	2 cm Muck (A10) (LRR S)				
ыаск н	Istic (A3)		Loamy	MUCKY MIR	neral (F1) (LRF	R ()	Reduced Vertic (+18) (outside MLRA 150A,				
Hydroge	en Sulfide (A4)		Loamy	Gleyed Ma	atrix (F2)			dplain Solis (F19) (LRR P, S, I			
Stratifie	d Layers (A5)	о т II)	_X_Deplet	ed Matrix (I	-3)			ght Loamy Solis (F20)			
Organic	boules (A0) (LRR	Р, I, U) В В Т II	Redox	Dark Surra	ICE (F0)		(MLRA 153B)				
5 CHI IVII	1000 Willieral (A7) (L	.KK P, I, U	Depiet	Doproceio	mace (F7)		Ked Parent Material (TF2)				
		0)	Neu0x		IIS (FO)		very Shallow Dark Sufface (1F12)				
Tenlete	d Below Dark Surfa	ce (A11)	Nan (i	ed Ochric (5) F11) (MI RA 1	51)		in Remarks)			
Depiete Thick D	ark Surface (A12)		Depict	anganese l	Masses (F12)		³ Indicators of	of hydrophytic vegetation and			
Coast P	rairie Redox (A16)	MI RA 150	۱۵۱۱-۱۸۹ ۱۵۱۱ ۱۵۱۱-۱۸۹	Surface (F	13) (I RR P 1		wetland hyd	rology must be present,			
Goddin	/ucky Mineral (S1)		Delta (Chric (F17) (MI RA 151)	, 0)	unless distu	rbed or problematic.			
Sandy (Gleved Matrix (S4)	(2.1.1 0, 0,	Beduc	ed Vertic (F	-18) (MLRA 1	50A, 150B)					
Candy C	Redox (S5)		Piedmo	ont Floodol	ain Soils (F19)	(MLRA 149A)					
Stripped	Matrix (S6)		Anoma	lous Bright	Loamy Soils ((III_IIIIIIIIII) (MLRA 14	9A, 153C, 153D)				
Dark Su	rface (S7) (LRR P,	S, T, U)		5	, , , , , , , , , , , , , , , , , , ,		- , , ,				
estrictive L	ayer (if observed).	:									
Type:											
Depth (ind	ches):					Hydrid	c Soil Present? Yes	X No			
emarks:						•					
positive inc	lication of hydric so	il was obse	rved.								

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:	Dequincy Industrial Park						Calcasieu		Sampling D	ate: A	ugust 2	23, 2018	
Applicant/Owner:	SWLA Economic Development Alliance					се	Sta	te:	Louisiana Sample Point		oint:	nt: SL3	
Investigator(s):	B	B.McNabb and T. Jones				Section, T	Section, Township, Range:			Sec. 23 - T7S -R11W			
Landform (hillslope, terrace, etc.): Depression				Local relie	Local relief (concave, convex, nor			Concave	Slope (%):		0-5		
Subregion (LRR or MLRA): LRR T				Lat:	30.	43701	Long:	-93.46444	Datum:		NAD83		
Soil Map Unit Name: Caddo-Messer complex, 0 to 1					o 1 percent slo	percent slopes NWI Class			Classification:	ssification: None			
Are climatic / hydrologic conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.)													
Are Vegetation	No	,Soil	No	,or Hydrology	<u>No</u> się	gnificantly distu	urbed?	Are "Norma	al Circums	stances" presen	t? Yes	x	No
Are Vegetation	No	,Soil	No	,or Hydrology	No na	aturally problen	ematic? (If need		lf needed,	explain any an	swers in Ren	narks.)	

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

Hydrophytic Vocatation Present?	Ves	v	No								
Hydric Soil Present?	Voc	<u> </u>	No	le the Samp	od Aroa						
Wotland Hydrology Present?		is the Samp	leu Area	Vac							
wettand Hydrology Present?	res	<u> </u>		within a wet	ianu r	res	<u> </u>	NO			
Remarks:											
This point was determined to b	e within a w	etland due t	o the presence of al	3 wetland crite	ria.						
HYDROLOGY											
Wetland hydrology Indicator	s:					Secondary Ind	dicators (r	ninimum of two required)			
Primary Indicators (minimum o	f one is requ	uired; check	all that apply)			Surface	Soil Crac	ks (B6)			
Surface Water (A1)			Aquatic Fauna (B	13)		Sparsel	y Vegetat	ed Concave Surface (B8)			
High Water Table (A2)			Marl Deposits (B1	5) (LRR U)		Drainag	age Patterns (B10)				
Saturation (A3)			_ Hydrogen Sulfide	Odor (C1)		Moss T	rim Lines	(B16)			
Water Marks (B1)		X	Oxidized Rhizosp	heres on Living	Roots(C3)	Dry-Sea	ason Wate	er Table (C2)			
Sediment Deposits (B2)			Presence of Redu	uced Iron (C4)		X Crayfish	n Burrows	(C8)			
Drift Deposits (B3)			Recent Iron Redu	ction in Tilled S	oils (C6)	Saturati	on Visible	on Aerial Imagery (C9)			
X Algal Mat or Crust (B4)			_ Thin Muck Surfac	e (C7)		Geomo	rphic Posi	tion (D2)			
Iron Deposits (B5)			Other (Explain in	Remarks)		Shallow	Aquitard	(D3)			
Inundation Visible on Ae	rial Imagery	(B7)				X FAC-Ne	eutral Tes	t (D5)			
Water-Stained Leaves (I	39)					Sphagn	ium moss	(D8) (LRR T, U)			
Field Observations:					1						
Surface Water Brocent?			Donth (inchoo):	N/A							
Water Table Present? Yes	N		_ Depth (inches):	<u></u>							
Saturation Present? Yes	N	lo X	_ Depth (inches):	>20	Wetland Hydr	rology Presen	t? Vo	s X No			
(includes capillary fringe)		<u> </u>			Weddina Hydi	lology i lesen					
Describe Recorded Data (strea	am gauge, n	nonitoring w	ell, aerial photos, pre	evious inspectio	ns), if available:	:					
Remarks:											
A positive indication of wetland	budrologu u		d (at least one prim	an (indiactor)							
A positive indication of wetland	nyarology	was observe	a (at least one prima	ary indicator).							
A positive indication of wetland	hydrology	was observe	ed (at least two seco	ndary indicators)						
	nyarology										
Sampling Point:

SL3

		Abcoluto	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:	30 ft)	% cover	Species?	Status	Number of Dominant Species		
1. Triadica sebifera	<u> </u>	5	Yes	FAC	That Are OBL, FACW, or FAC:	8	(A)
2							(, ,)
3					Total Number of Dominant		
4					Species Across All Strata:	8	(B)
5						U	(5)
6			·		Percent of Dominant Species		
		5	= Total Cover		That Are OBL_EACW_or EAC	100%	(A/B)
	50% of total cover	2.5	20% of total cover:	1			(,,,,,)
Sapling Stratum (Plot size:	30 ft)			<u> </u>	Prevalence Index Worksheet:		
1 Ouercus nigra	<u> </u>	30	Ves	FAC	Total % Cover of	Multiply by:	
2		0			OBL species 80	x 1 = 80	
3					FACW species 95	$x^{2} = \frac{190}{190}$	
4.					FAC species 165	x 3 = 495	
5.					FACU species 0	x 4 = 0	
6.					UPL species 0	x 5 = 0	
		30	= Total Cover		Column Totals: 340	(A) 765	(B)
	50% of total cover:	15	20% of total cover:	6			(=)
Shrub Stratum (Plot size:	30 ft.)				Prevalence Index = B/A =	2.25	
1. Baccharis halimifolia	/	40	Yes	FAC			
2. Triadica sebifera		30	Yes	FAC	Hydrophytic Vegetation Indicate	ors:	
3. Cephalanthus occidentalis		30	Yes	OBL	1 - Rapid Test for Hydrop	hvtic Vegetation	
4.					X 2 - Dominance Test is >5	0%	
5.					X 3 - Prevalence Index is ≤	3.0 ¹	
6.					Problematic Hydrophytic	Vegetation ¹ (Explain)
		100	= Total Cover			5 (1	,
	50% of total cover	50	20% of total cover	20	¹ Indicators of hydric soil and wetl	and hydrology must	
Herb Stratum (Plot size:	30 ft.)				be present, unless disturbed or pre-	oblematic.	
1 Dichanthelium dichotomum		60	Yes	FAC	Definitions of Five Vegetation St	trata:	
2 Rhexia mariana		40	Yes	FACW	Tree - Woody plants, excluding w	oodv vines.	
3 Juncus effusus		40	Yes	OBI	approximately 20 ft (6m) or more in	n height and 3 in	
4 Eleocharis montevidensis		30	<u> </u>	FACW	(7.6 cm) or larger in diameter at br	reast height (DBH)	
5 Rhynchospora colorata		25	<u> </u>	FACW		ouor no.g.n (2 2).	
6 Friocaulon decangulare		10	<u> </u>	OBI	Sapling - Woody plants, excluding	g woody vines,	
7					approximately 20 ft (6 m) or more	in height and less	
8					than 3 in. (7.6 cm) DBH.		
9							
10					Shrub - Woody plants, excluding v	woody vines,	
11					approximately 3 to 20 ft (1 to 6 m)	in height.	
		205	= Total Cover				
	50% of total cover	102.5	20% of total cover	41	Herb - All herbaceous (non-woody	/) plants, including	
Woody Vine Stratum (Plot size:	30 ft)				herbaceous vines, regardless of s	ize, <u>and</u> woody	
1. None Observed	<u> </u>				plants, except woody vines, less th	nan approximately	
2.					3 ft (1 m) in height.		
3							
4					Woody vine - All woody vines, reg	gardless of height.	
5		-					
			= Total Cover		Hydrophytic		
	50% of total cover:		20% of total cover:		Vegetation		
			-		Present? Yes X	No	
						·	
Remarks: (if observed, list m	orphological adaptati	ions below	/).				
			, 1 (>EO0/ -1 -1	anasi ' '			
A positive indication of hydro	pnytic vegetation was	observed	a (>50% of dominant	species inde	exed as OBL, FACW, or FAC).		
A positive indication of hydro	phytic vegetation was	observed	l (Prevalence Index	s ≤ 3.00).			

0-16	Color (moist)			Redox F	eatures			
0-16		%	Color (moist)	_%	Type ¹	Loc ²	Texture	Remarks
	10YR 5/1	90	7.5YR 4/4	10	C	M&PL	Silt	
							<u> </u>	
						2		
ype: C=Cond	centration, D=Dep	oletion, RM=R	educed Matrix, I	MS=Maskeo	Sand Grains	. ² Location: PL	_=Pore Lining, M=Matri	X
ydric Soils In	dicators: (Appli	cable to all L	RRs, unless ot	herwise no	ted.)		Indicators for Probl	ematic Hydric Soils":
	A1)		Polyva	alue Below :	Surface (S8) (LRR S, I, U)	1 cm Muck (A9)	
HISTIC Epip	edon (A2)			ark Surrace	e (59) (LKK 5	, I, U) R O)	2 cm Muck (ATL	/) (LRR 5) /[19] (autoida MI DA 450A I
	Sulfido (A4)		Loamy		eral (F1) (LR	K U)	Reduced Vertic	(F10) (OUISIDE MILKA 150A,
Hydrogen			Loamy	od Motrix (1111X (FZ) 22)			piairi Solis (F 19) (LKK P, S, 1 ht Leamy Seile (E20)
Organic B	ayers (AS) odies (A6) (I PP I	ртιι	Depier		-3) co (E6)		(MI DA 153B)	The Loanty Solis (F20)
5 cm Muck	w Mineral (A7) (I		Redux	ed Dark Suila	rface (F7)		Red Parent Mat	erial (TE2)
Muck Pres	sence (A8) (LRR	u)	Depier	Depression	nace (F8)		Very Shallow Da	ark Surface (TE12)
1 cm Mucł	(A9) (LRR P. T)	-,	Marl (F	=10) (LRR I	J)		Other (Explain i	n Remarks)
Depleted E	Below Dark Surfa	ce (A11)	Deplet	ed Ochric (F11) (MLRA 1	151)		,
Thick Dark	(Surface (A12)	()	Iron-M	anganese l	Aasses (F12)	, (LRR O, P, T)	³ Indicators of	hydrophytic vegetation and
Coast Prai	irie Redox (A16) ((MLRA 150A)	Umbri	c Surface (F	- 13) (LRR P,	T, U)	wetland hydro	ology must be present,
Sandy Mu	cky Mineral (S1)	(LRR O, S)	Delta	Ochric (F17) (MLRA 151)		unless distur	bed or problematic.
Sandy Gle	yed Matrix (S4)		Reduc	ed Vertic (F	18) (MLRA 1	50A, 150B)		
Sandy Red	dox (S5)		Piedm	ont Floodpl	ain Soils (F19) (MLRA 149A)		
Stripped N	latrix (S6)		Anoma	alous Bright	Loamy Soils	(F20) (MLRA 149	A, 153C, 153D)	
Dark Surfa	ace (S7) (LRR P,	S, T, U)						
estrictive Lay	/er (if observed)							
Туре:								
Depth (inche	es):					Hydric	Soil Present? Yes	X No
emarks:								

Project/Site:	Dequincy Industrial Park					Parish:	Calcasieu			Sampling D	ate: Au	ugust 2	3, 2018
Applicant/Owner:		S	WLA E	conomic Develo	pment Alliance		St	ate:	Louisiana	Sample Point:		SL	4
Investigator(s):	В	.McNab	b	and	T. Jones	Section,	Townsł	nip, Range:		Sec. 23	3 - T7S -R11\	N	
Landform (hillslope,	terrace,	etc.): _		Hilltop		Local rel	ief (con	cave, convex,	none):	Convex	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30	.43633	Long:	-93.46463	Datum:		NAD83
Soil Map Unit Name	:			Caddo-Messer	complex, 0 to 1	percent sl	opes		NWI CI	assification:		None	
Are climatic / hydrole	ogic cond	ditions o	n the s	ite typical for this	time of year?	(Yes / N	lo)	Yes	(if no, e	xplain in Rem	arks.)		
Are Vegetation	No	_,Soil_	No	or Hydrology,	<u>No</u> signi	ificantly dis	turbed?	Are "Norma	al Circumsta	inces" presen	t? Yes	x	No
Are Vegetation	tion <u>No</u> ,Soil <u>No</u> ,or Hydrology <u>No</u> naturally					rally proble	ematic?	(lf needed, e	xplain any an	swers in Rem	narks.)	

r										
Hydrophytic Vegetation Pre	sent? Ye	<i>;</i> s		No _	<u>×</u>	la tha Camal				
Hydric Soll Present?	to Ve	,s		NO _	<u> </u>	Is the Sampi	ed Area	Vee	No	v
wettand Hydrology Presen	t? Ye	.s		INO _	<u> </u>	within a wet	iand ?	res	NO	
Remarks: This point was determing HYDROLOGY Wetland hydrology Ind Primary Indicators (min)	dicators: imum of one is √1) ≥ (A2)) its (B2) 3) st (B4) 5)	ithin a we	etland c	all that Aqua Marl Hydr Oxid Pres Rece Thin Othe	apply) atic Fauna (B ² Deposits (B1 ogen Sulfide ized Rhizospl ence of Redu ent Iron Redu Muck Surface r (Explain in F	13) 5) (LRR U) Odor (C1) heres on Living iced Iron (C4) ction in Tilled So e (C7) Remarks)	teria. Roots(C3)	Secondary Indicati Surface Soil Sparsely Ve Drainage Pa Moss Trim L Dry-Season Crayfish Bui Saturation V Geomorphic Shallow Aqu	ors (minimum of Cracks (B6) getated Conca atterns (B10) .ines (B16) Water Table ((rrows (C8) 'isible on Aerial : Position (D2) .itard (D3)	<u>of two required)</u> ve Surface (B8) C2) I Imagery (C9)
) 	(D.7		_ Othe	r (Explain in F	Remarks)		Shallow Aqu	litard (D3)	
	e on Aerial Ima	gery (B7)					FAC-Neutra	1 Test (D5)	
Water-Stained Le	eaves (B9)							Spnagnum i	moss (D8) (LR I	R I, U)
Field Observations:										
Surface Water Present?	Ves	No	x	De	onth (inches).	N/A				
Water Table Present?	Ves	_ No _	<u> </u>	- De	onth (inches).	>20				
Saturation Present?	Yes	_ No _	X	– De	onth (inches):	>20	Wetland Hyd	trology Present?	Yes	No X
(includes capillary fringe)			~		pur (monoo).			liology i locoliti		
Describe Recorded Dat	a (stream gau	ge, monit	toring w	ell, aeri	al photos, pre	evious inspection	ns), if available	2:		
Remarks:										
No positive indication o	f wetland hydro	ology was	s obser	ved.						

Tradica set/for a Other is an indicator in the indicator is the indicator is the indicator is indicator is the indicator is indicator is the indicator is indinguility is is indicat						Dominanco Tosta	vorkshoot:			
Number of Dominant Species Number of Dominant Species Tradica seltera 30 Yes FAC Tradica seltera 30 Yes FAC Tradica seltera 30 Yes FAC Total Number of Dominant Species Total Number of Dominant Species (A) Total Number of Dominant Species (A) Species Zoros All Strata: 5 (B) Softword folal cover: 22 (A) Softword folal cover: 22 (A) Softword (Pol size: 30 Yes FAC Tradica set/fira 50 Yes FAC Softword (Pol size: 30 Yes FAC			Absolute	Dominant	Indicator	Dominance rest v	worksneet:			
Prind gauging out Yes FAUU Init We Dit, FAUW, & FAUU Z (A) Tradica set/ora 30 Yes FAUU Total Number of Dominant Species (B) Solvis of total cover: 50% of total cover: 50% of total cover: 22 Prevalence Index Worksheet: (B) None Observed	ree Stratum (Plot size:	<u> 30 ft. </u>)	% cover	Species?	Status	Number of Domina	ant Species		•	(•)
Indexics sectors 30 Yes FAC Indexics sectors 50% of total cover 55 20% of total cover 22 Softward 50% of total cover 55 20% of total cover 22 Mone Observed 50% of total cover 52 20% of total cover 22 Mone Observed 50% of total cover 50% of total cover 22 20 Fact Stratum (Plot size: 30 ft.) 74 86 90 x 1 = 0 Fact Stratum (Plot size: 30 ft.) 74<	Pinus palustris		80	Yes	FACU	That Are OBL, FAC	SW, or FAC:		2	(A)
Image: Stratum For total cover 5 (B) Solv, of total cover 55 20% of total cover 22 Imat Are OBL, FACW, or FAC: 40% (A) Name Observed Imat Are OBL, FACW, or FAC: 40% (A) Imat Are OBL, FACW, or FAC: 40% (A) (A) Name Observed Imat Are OBL, FACW, or FAC: 40% (A) Imat Are OBL, FACW, or FAC: 40% (A) (A) Imat Are OBL, FACW, or FAC: 10 1	Triadica sebifera		30	Yes	FAC					
Species Across Al Strata:: \$ (B) Species Across Al Strata:: \$ (B) Species Across Al Strata:: \$ (B) Soft of total cover: 55 20% of total cover: 22 Anne Observed				·		Total Number of D	ominant			
				·		Species Across All	Strata:		5	(B)
110 = Total Cover 50% of total cover: 55 50% of total cover: 55 20% of total cover: 22 Image: Stratum (Plot size: 30 ft.) Schizachyrum scoparium 50 Yes FACU Schizachyr										
110 = Total Cover 50% of total cover: 22 aping Stratum (Plot size: 30 ft) None Observed		······································		·		Percent of Domina	nt Species			
galing Stratum (Plot size: 30 ft. Nane Observed			110	= Total Cover		That Are OBL, FAC	CW, or FAC:		40%	(A/E
Prevalence index worksneet: Multiply by: None Observed		50% of total cover:	55	20% of total cover:	22					
None Observed Total % Cover of: Multiply by:	apling Stratum (Plot size:	<u> 30 ft. </u>)				Prevalence Index	Worksheet:			
OBL species 0 x1 = 0 Construction Construction 2270 FACW species 165 x4 = 660 Column Totals: 20% of total cover: 20% of total cover: 950 Soths of total cover: 20% of total cover: 20% of total cover: 950 Ilex vomitoria 50 Yes FAC Ilex vomitoria 50 Yes FACU Ilex vomitoria 50 Yes	None Observed					Total % (Cover of:		Multiply by:	
FACW species 10 x 2 = 20 FACW species 90 x 3 = 270 FACU species 0 x 5 = 0 Column Totals: 20% of total cover: 20% of total cover: 20% Triadica sebifera 10 No FAC Image: Stratum 50 Yes FAC 60 = Total Cover 12 Prevalence Index = B/A = 60 = Total Cover 12 Image: Stratum 60 = Total Cover 12 Problematic Hydrophydic Vegetation 1 (Explain) 10 No FACU Prevalence Index is 3.0 ¹ Problematic Hydrophydic Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (f) on ormore in height and 3 in. (7.6 cm) DBH. Saping - Woody plants, excluding woody vines, approximately 20 ft (f) or more in height and 1s. Shrub - Woody plants, excluding woody vines, approximately 20 ft (f) or ormore in height and 1s. 10 No FACU Spratum (Plot size: 3						OBL species	0	x 1 =	0	
FAC species 90 x 3 = 270 FAC species 165 x 4 = 660 0 20% of total cover: 20% of total cover: 0 x 5 = 0 Intuitivia 30 ft 10 No FAC FAC Prevalence index = B/A = 3.58 Itex vomitoria 50 Yes FAC Prevalence index = B/A = 3.58 Itex vomitoria 50 Yes FAC Prevalence index = B/A = 3.58 Itex vomitoria 50 Yes FAC Prevalence index = B/A = 3.58 Itex vomitoria 50 Yes FACU Prevalence index = B/A = 3.58 Itex vomitoria 50 Yes FACU Problematic Mytrophytic Vegetation Itex vomitace Itex vomitoria 30 ft) Problematic Mytrophytic Vegetation * Itex vomitace Itex vomitoria 50 Yes FACU Problematic Mytrophytic Vegetation * Itex vomitace Itex vomitoria 50 Yes FACU Problematic Mytrophytic Vegetation * Itex vomitace Subtachytrim scoparium 10 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>FACW species</td> <td>10</td> <td>x 2 =</td> <td>20</td> <td></td>						FACW species	10	x 2 =	20	
						FAC species	90	x 3 =	270	
						FACU species	165	x 4 =	660	
= Total Cover = Total Cover 50% of total cover: 20% of total cover: 10 No FAC FAC Triadica sebifera 10 10 No FAC FAC Hydrophytic Vegetation Indicators: 1 Raide sebifera 10 No 50% of total cover: 30 60 = Total Cover 50% of total cover: 30 20% of total cover: 30 60 = Total Cover 50% of total cover: 30 20% of total cover: 30 20% of total cover: 12 Bapalum floridanum 50 Yes 10 No FACU Papalum floridanum 10 No 20% of total cover: 47.5 20% of total cover: 47.5 20% of total cover: 47.5 20% of total cover: 19 Ioady Vine Stratum (Plot size: 30 ft.) None Observed						UPL species	0	x 5 =	0	
50% of total cover: 20% of total cover: Prevalence index = B/A =				= Total Cover		Column Totals:	265	(A)	950	
http://stratum (Plot size:		50% of total cover:		20% of total cover:				-	-	
Itex vomitoria 50 Yes FAC Triadica sebifera 10 No FAC Iter sebifera 10 No FAC Sol% of total cover: 30 Problematic Hydrophytic Vegetation Idicators: 1 Sol% of total cover: 30 Problematic Hydrophytic Vegetation Strate: Tree - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) DBH. Mone Observed 95 = Total Cover 19 More Observed	hrub Stratum (Plot size:	30 ft.)				Prevalence	e Index = B/A :	=	3.58	
Triadica sebilitra 10 No FAC Triadica sebilitra 1 Rapid Test for Hydrophytic Vegetation Soft FAC 1 Rapid Test for Hydrophytic Vegetation Soft Soft Perspetem 2 Dominance Test is >50% Rubus trivialis 50 Yes FACU Problematic Hydrophytic Vegetation 1 (Explain) Rubus trivialis 50 Yes FACU Tere - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Saping - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (1 to 6 m) in height. Yoody Vine Stratum (Plot size: 30 ft.) 20% of total cover: 19 No Soft (1 to 6 m) in height. Woody vine - All woody vines, regardless of size, and woody Soft (1 to 6 m) in height. Woody vine - All woody vines, regardless of height. Yoody vine - All woody vines, regardless of height.	llex vomitoria	,	50	Yes	FAC					
	Triadica sebifera		10	No	FAC	Hydrophytic Vege	tation Indicat	ors:		
						1 - Rapid	Test for Hydror	ohvtic Ve	netation	
						2 - Domin	ance Test is >	50%	gotation	
						3 - Preval	ence Index is <	3 0 ¹		
60 = Total Cover 50% of total cover: 30 20% of total cover: 12 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Rubus trivialis 50 Schizachyrium scoparium 35 Paspalum floridanum 10 No FACU Paspalum floridanum 10 No FACW Schizachyrium scoparium 10 No FACW Submit for dianum 10 No FACW Samproximately 20 ft (6m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Model Vine Stratum (Plot size: 30 ft. None Observed						Or Treval	tic Hydrophytic	Vecetati	ion ¹ (Evolain	`
50% of total cover: 30 20% of total cover: 12 indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 10 No Paspalum floridanum 35 Yes FACU Paspalum floridanum 10 No FACU Paspalum floridanum 10 No FACU Composition 35 Yes FACU Paspalum floridanum 10 No FACU Strizachyrium scoparium 35 Yes FACU Paspalum floridanum 10 No FACW Grow of total cover Sapling - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 20 ft (10 to 6m) in height. Solow of total cover: 47.5 Solow of total cover: 19 None Observed						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		vegetat	юп (слрат)
abs of total cover. 30 20% of total cover. 12 Initiations of Hydro Soli and weitain hydrology hits: be present, unless disturbed or problematic. Definitions of Five Vegetation Stratz: Definitions of Five Vegetation Stratz: Schizachyrium scoparium 35 Yes FACU Paspalum floridanum 10 No FACW			60	- Total Cavar						
Import Stratum (Initial sector)		EQ0/ of total action	60	= Total Cover				امتط امتط	rology must	
Audus trivialis 50 res FACU Schizachyrium scoparium 35 Yes FACU Paspalum floridanum 10 No FACU Image: Schizachyrium scoparium Image: Schizachyrium scoparium Image: Schizachyrium schiz		50% of total cover:	60 30	= Total Cover 20% of total cover:	12	¹ Indicators of hyd	ric soil and we	land hyd	rology must	
Schraachyrum scopanum 35 Yes FACU Iffee Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. Paspalum floridanum 10 No FACW approximately 20 ft (6m) or more in height and 3 in. Sapling - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less approximately 20 ft (6m) or more in height and less Sapling - Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) or BBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Shrub - Woody plants, excluding woody vines, Yoody Vine Stratum (Plot size: 30 ft.) Shrub - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Mood Observed	lerb Stratum (Plot size:	50% of total cover: 30_ft)	60 30	= Total Cover 20% of total cover:	12	¹ Indicators of hyd be present, unless	ric soil and wet	iland hyd oblemati	rology must	
Paspalum floridanum 10 No FACW approximately 20 ft (6m) or more in height and 3 in.	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50	= Total Cover 20% of total cover: Yes	12 FACU	¹ Indicators of hyd be present, unless Definitions of Five	ric soil and wet disturbed or pr e Vegetation S	iland hyd oblemati	rology must	
	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium	50% of total cover: 30 ft.)	60 30 50 35	= Total Cover 20% of total cover: Yes Yes	12 FACU FACU	¹ Indicators of hyd be present, unless Definitions of Fiv Tree - Woody plar	ric soil and wet disturbed or pr e Vegetation S nts, excluding v	iland hyd oblemati i trata: voody vir	rology must ic. nes,	
Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 95 = Total Cover 50% of total cover: 47.5 20% of total cover: 19 None Observed	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u>	12 FACU FACU FACW	¹ Indicators of hyd be present, unless Definitions of Fiv Tree - Woody plar approximately 20 f	ric soil and wet disturbed or pr e Vegetation S nts, excluding v t (6m) or more	iland hyd roblemati s trata: voody vir in height	rology must ic. nes, and 3 in.	
Saping - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 95 = Total Cover 95 = Total Cover 95 = Total Cover 95 = Total Cover 96 = Total Cover 97 = Total Cover 98 = Total Cover 99 = Total Cover 90 = Total Cover 91 = Total Cover 92 = Total Cover 93 #erb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. 93 #total cover:	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30_ft)	60 30 50 35 10	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u>	12 FACU FACU FACW	¹ Indicators of hyd be present, unless Definitions of Fiv Tree - Woody plar approximately 20 f (7.6 cm) or larger i	ric soil and wet disturbed or pr e Vegetation S nts, excluding v t (6m) or more n diameter at b	iland hyd oblemati t trata: voody vir in height reast hei	rology must ic. nes, and 3 in. ight (DBH).	
approximately 20 tf (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 95 = Total Cover 100 100	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10	= Total Cover 20% of total cover: <u>Yes</u> <u>Yes</u> <u>No</u>	12 FACU FACU FACW	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i	ric soil and wet disturbed or pr e Vegetation S nts, excluding v t (6m) or more n diameter at b	land hyd oblemati it rata: voody vir in height reast hei	rology must ic. nes, and 3 in. ight (DBH).	
Image: stratum	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10	= Total Cover 20% of total cover: Yes Yes 	12 FACU FACU FACW	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody p	ric soil and wef disturbed or pr e Vegetation S nts, excluding v t (6m) or more n diameter at b	iland hyd oblemati strata: voody vir in height reast hei g woody	rology must ic. nes, and 3 in. ight (DBH). vines,	
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 95 = Total Cover 95 = Total Cover 47.5 20% of total cover: 19 herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. None Observed	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10	= Total Cover 20% of total cover: Yes Yes 	12 FACU FACU FACW	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody p approximately 20 f	ric soil and wet disturbed or pr e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more	land hyd oblemat trata: voody vir in height reast hei g woody in heigh	rology must ic. and 3 in. ight (DBH). vines, t and less	
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 95 = Total Cover 50% of total cover: 47.5 20% of total cover: 19 None Observed	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10	= Total Cover 20% of total cover: Yes Yes 	12 FACU FACU FACW	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody p approximately 20 f than 3 in. (7.6 cm)	ric soil and wet disturbed or pr e Vegetation S hts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH.	dand hyd roblemat trata: woody vir in height reast hei g woody in heigh	rology must ic. and 3 in. ight (DBH). vines, t and less	
95 = Total Cover 96 = Total Cover 97 = Total Cover 98 = Total Cover 99 = Total Cover 99 = Total Cover 99 = Total Cover 90% of total cover: 20% of total cover: 20% of total cover: 90% Yes No X	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10	= Total Cover 20% of total cover: Yes Yes 	12 FACU FACU FACW	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody p approximately 20 f than 3 in. (7.6 cm)	ric soil and wet disturbed or pr e Vegetation S hts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH.	land hyd roblemat strata: woody vir in height reast hei g woody in heigh	rology must ic. and 3 in. ight (DBH). vines, t and less	
95 = Total Cover 50% of total cover: 47.5 20% of total cover: 19 None Observed 47.5 None Observed 47.5 20% of total cover: 19 None Observed 47.5 20% of total cover: 19 None Observed 47.5 20% of total cover: 19 Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 4000 vine - All woody vines, regardless of height. 4000 vine - Sol of total cover: 20% of total cover: 20% of total cover: Yes No _ X	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10	= Total Cover 20% of total cover: Yes Yes No 	12 FACU FACU FACW	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plan approximately 20 f (7.6 cm) or larger i Sapling - Woody plan approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plan 	ric soil and wet disturbed or pr e Vegetation S hts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. ants, excluding	land hyd roblemat strata: woody vir in height reast hei g woody in heigh woody v	rology must ic. and 3 in. ight (DBH). vines, t and less ines,	
50% of total cover: 47.5 20% of total cover: 19 Woody Vine Stratum (Plot size: 30 ft.) None Observed	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10	= Total Cover 20% of total cover: Yes Yes 	12 FACU FACU FACW	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plan approximately 20 f (7.6 cm) or larger i Sapling - Woody plan approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plan approximately 3 to 	ric soil and wel disturbed or pr e Vegetation S hts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. ants, excluding 20 ft (1 to 6 m)	land hyd oblemat voody vir in height reast hei g woody in heigh woody v	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t.	
Woody Vine Stratum (Plot size:30 ft)	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10 	= Total Cover 20% of total cover: <u>Yes</u> <u>Yes</u> <u>No</u> 	12 FACU FACU FACW	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody pla approximately 20 f than 3 in. (7.6 cm) Shrub - Woody pla approximately 3 to	ric soil and wet disturbed or pr e Vegetation S hts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. ants, excluding 20 ft (1 to 6 m)	land hyd oblemat itrata: voody vir in height reast hei g woody in heigh woody v in heigh	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t.	
None Observed	lerb Stratum (Plot size: Rubus trivialis Schizachyrium scoparium Paspalum floridanum	50% of total cover: 30 ft)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u> 	12 FACU FACU FACW 	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody plar approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plar approximately 3 to Herb - All herbace 	ric soil and wet <u>disturbed or pr</u> e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. ants, excluding 20 ft (1 to 6 m) ous (non-wood	land hyd oblemat voody vir in height reast hei g woody in heigh woody v in heigh y) plants	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including	
3 ft (1 m) in height. 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 50% of total cover: 20% of total cover: 20% of total cover: Yes No _ X	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: Yes No No = Total Cover 20% of total cover:	12 FACU FACW FACW 19	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody plar approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plar approximately 3 to Herb - All herbace herbaceous vines, 	ric soil and wet disturbed or pr e Vegetation S hts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. ants, excluding 20 ft (1 to 6 m) ous (non-wood regardless of s	land hyd oblemat voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u>	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody	
Woody vine - All woody vines, regardless of height.	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: Yes No No = Total Cover 20% of total cover:	12 FACU FACW FACW 19	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody plar approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plar approximately 3 to Herb - All herbace herbaceous vines, plants, except woo 	ric soil and wei <u>disturbed or pr</u> e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. ants, excluding 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t	land hyd oblemat voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately	
Woody vine - All woody vines, regardless of height. = Total Cover 50% of total cover: 20% of total cover: Present? Yes No	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: Yes No No = Total Cover 20% of total cover:	12 FACU FACW FACW 19	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody plar approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plar approximately 3 to Herb - All herbace herbaceous vines, plants, except woo 3 ft (1 m) in height. 	ric soil and wei <u>disturbed or pr</u> e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t	land hyd oblemat voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately	
= Total Cover Hydrophytic 50% of total cover: 20% of total cover: Yes NoX	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u> 	12 FACU FACW FACW 19	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody plar approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plar approximately 3 to Herb - All herbace herbaceous vines, plants, except woo 3 ft (1 m) in height. 	ric soil and wei <u>disturbed or pr</u> e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t	land hyd oblemat voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately	
= Total Cover Hydrophytic 50% of total cover: 20% of total cover: Present? Yes No X	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u> 	12 FACU FACU FACW 19	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody plar approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plar approximately 3 to Herb - All herbace herbaceous vines, plants, except woo 3 ft (1 m) in height. Woody vine - All v 	ric soil and wel <u>disturbed or pr</u> e Vegetation S nts, excluding v t (6m) or more n diameter at b plants, excluding t (6 m) or more DBH. ants, excluding 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t voody vines, re	land hyd <u>roblemati</u> itrata: voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app gardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
50% of total cover: 20% of total cover: Vegetation Present? Yes NoX	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u> 	12 FACU FACU FACW 19	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody plar approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plar approximately 3 to Herb - All herbace herbaceous vines, plants, except woo 3 ft (1 m) in height. Woody vine - All w 	ric soil and wel disturbed or pr e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t	land hyd oblemat itrata: voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
SU% of total cover: 2U% of total cover: Vegetation Present? Yes NoX	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u>	12 FACU FACU FACW 19	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody pla approximately 20 f than 3 in. (7.6 cm) Shrub - Woody pla approximately 3 to Herb - All herbace herbaceous vines, plants, except woo 3 ft (1 m) in height. Woody vine - All w	ric soil and wel disturbed or pr e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t	land hyd oblemati itrata: voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app gardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
Present? Yes <u>No X</u>	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u> <u>No</u>	12 FACU FACU FACW 19 19	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody pla approximately 20 f than 3 in. (7.6 cm) Shrub - Woody pla approximately 3 to Herb - All herbace herbaceous vines, plants, except woo 3 ft (1 m) in height. Woody vine - All w Hydrophytic	ric soil and wel disturbed or pr e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t	land hyd oblemat voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
	lerb Stratum (Plot size:	50% of total cover: 30 ft.) 50% of total cover: 50% of total cover: 50% of total cover: 50% of total cover:	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: <u>Yes</u> <u>No</u> = Total Cover 20% of total cover: = Total Cover 20% of total cover:	12 FACU FACU FACW 19 19	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plan approximately 20 f (7.6 cm) or larger i Sapling - Woody plan approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plan approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plan approximately 3 to Herb - All herbace herbaceous vines, plants, except wood 3 ft (1 m) in height. Woody vine - All w Hydrophytic Vegetation 	ric soil and wel disturbed or pr e Vegetation S hts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t	land hyd oblemati itrata: voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app gardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
	lerb Stratum (Plot size:	50% of total cover: 30 ft.)	60 30 50 35 10 95 47.5	= Total Cover 20% of total cover: <u>Yes</u> No = Total Cover 20% of total cover: = Total Cover 20% of total cover:	12 FACU FACW FACW 19	 ¹Indicators of hyd be present, unless Definitions of Five Tree - Woody plan approximately 20 f (7.6 cm) or larger i Sapling - Woody plan approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plan approximately 20 f than 3 in. (7.6 cm) Shrub - Woody plan approximately 3 to Herb - All herbace herbaceous vines, plants, except wood 3 ft (1 m) in height. Woody vine - All w Hydrophytic Vegetation Present? 	ric soil and wel disturbed or pr e Vegetation S nts, excluding v t (6m) or more n diameter at b blants, excluding clambs, excluding 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t voody vines, re Yes	land hyd oblemat voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app gardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	
	erb Stratum (Plot size:	50% of total cover: <u>30 ft.</u>) 50% of total cover: 50% of total cover: 50% of total cover: 50% of total cover: 50% of total cover:	60 30 35 10 95 47.5	= Total Cover 20% of total cover: Yes No No = Total Cover 20% of total cover: 20% of total cover: 20% of total cover: 20% of total cover:	12 FACU FACU FACW 19 19	¹ Indicators of hyd be present, unless Definitions of Five Tree - Woody plar approximately 20 f (7.6 cm) or larger i Sapling - Woody pla approximately 20 f than 3 in. (7.6 cm) Shrub - Woody pla approximately 3 to Herb - All herbace herbaceous vines, plants, except woo 3 ft (1 m) in height. Woody vine - All w Hydrophytic Vegetation Present?	ric soil and wel disturbed or pr e Vegetation S hts, excluding v t (6m) or more n diameter at b blants, excludin t (6 m) or more DBH. ants, excluding 20 ft (1 to 6 m) ous (non-wood regardless of s dy vines, less t voody vines, re Yes	land hyd oblemati itrata: voody vir in height reast hei g woody in heigh woody v in heigh y) plants size, <u>and</u> han app gardless	rology must ic. nes, and 3 in. ight (DBH). vines, t and less ines, t. , including woody roximately of height.	

epth	Matrix			Redox F	eatures			
nches)	Color (moist)	<u>%</u> Co	lor (moist)		Type ¹	Loc ²	Texture	Remarks
0-16	10YR 5/3	100	None				Silt Loam	
 Type: C=Cor		letion RM=Redu	iced Matrix	MS=Masker	Sand Grains	² Location:	PI =Pore Lining M=M	atrix
vdric Soils I	Indicators: (Appli	icable to all I RR		therwise no		Loodion.	Indicators for Pro	blematic Hydric Soils ³ :
Histocol	(A1)		Polyar		Surface (S8) (I	PPSTIN	1 cm Muck (A	
Listia En	inadan (A2)		Thin [Jark Surface		T IN	1 cm Muck (/	
	atia (A2)				(0.9) (LKK 3,	1, 0)	2 Cill Muck (F	(10) (LRR 3)
	SUC (A3)		Loam			(0)	Reduced Ver	
Hydroger	n Sulfide (A4)		Loam	y Gleyed Ma	atrix (F2)			odpiain Solis (F19) (LRR P, S, 1
Stratified	Layers (A5)		Deple	ted Matrix (I	-3)		Anomalous B	right Loamy Soils (F20)
Organic I	Bodies (A6) (LRR F	Ρ, Τ, U)	Redo	x Dark Surfa	ce (F6)		(MLRA 153B)
5 cm Mu	cky Mineral (A7) (L	.RR P, T, U)	Deple	ted Dark Su	rface (F7)		Red Parent M	laterial (TF2)
Muck Pre	esence (A8) (LRR I	U)	Redo	x Depressio	ns (F8)		Very Shallow	Dark Surface (TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (LRR I	ר)		Other (Explai	n in Remarks)
Depleted	Below Dark Surfac	ce (A11)	Deple	ted Ochric (F11) (MLRA 1	51)		
Thick Da	rk Surface (A12)		Iron-N	langanese l	Masses (F12)	(LRR O, P, T)	³ Indicators	of hydrophytic vegetation and
Coast Pr	airie Redox (A16) ((MLRA 150A)	Umbr	ic Surface (F	13) (LRR P, T	, U)	wetland hy	drology must be present,
Sandy M	ucky Mineral (S1) ((LRR O, S)	Delta	Ochric (F17) (MLRA 151)		uniess dist	urbed of problematic.
Sandy G	leyed Matrix (S4)		Redu	ced Vertic (F	18) (MLRA 15	0A, 150B)		
Sandy Re	edox (S5)		Piedm	nont Floodpl	ain Soils (F19)	(MLRA 149A)	
Stripped	Matrix (S6)		Anom	alous Bright	Loamy Soils (F20) (MLRA 1	, 49A, 153C, 153D)	
Dark Sur	face (S7) (I RR P	S T Ш					,,	
estrictive La	ayer (if observed):	:						
estrictive La Type: Depth (incl	ayer (if observed): hes):	:				Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (incl	ayer (if observed): 	:				Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (inch emarks:	ayer (if observed): hes):	:				Hyd	ric Soil Present? Ye	s No X
estrictive La Type: Depth (inch emarks:	ayer (if observed): hes):					Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (incl emarks: o positive inc	ayer (if observed):	: oils was observe				Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (incl emarks: o positive inc	ayer (if observed): 	: oils was observe				Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed): 	: oils was observe				Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (incl emarks: o positive inc	ayer (if observed): 	: oils was observe				Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (incl emarks: o positive inc	ayer (if observed): 	oils was observe				Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (incl emarks: o positive inc	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s NoX
estrictive La Type: Depth (incl emarks: o positive inc	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s No X
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s No X
estrictive La Type: Depth (incl emarks: o positive inc	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s No X
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s No X
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s No X
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s No X
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s No X
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	sNoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	sNoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	sNoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	sNoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	sNoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	sNoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	sNoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	sNoX
estrictive La Type: Depth (incl emarks: o positive ind	ayer (if observed):	oils was observe				Hyd	ric Soil Present? Ye	s No X

Project/Site:		Dequincy Industrial Park Parish: Calcasieu					u	_Sampling D	ate: Au	ugust 23,	2018		
Applicant/Owner:		S	WLA E	Economic Develo	pment Alliance		State	e:	Louisiana	Sample Point:		SL5	
Investigator(s):	В	.McNab	b	and	T. Jones	Section, T	Township	, Range:		Sec. 23	3 - T7S -R11\	N	
Landform (hillslope,	terrace,	etc.):		Plain		Local relie	ef (conca	ve, convex	none):	None	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30.4	3382	Long:	-93.46575	Datum:	N	IAD83
Soil Map Unit Name	:			Caddo-Messer	complex, 0 to 1	percent slo	opes		NWI Cla	assification:		None	
Are climatic / hydrol	ogic cond	ditions o	n the s	ite typical for this	time of year?	(Yes / No	o)	Yes	(if no, ex	plain in Rem	arks.)		
Are Vegetation	No	_,Soil_	No	or Hydrology	<u>No</u> signi	ficantly dist	urbed?	Are "Norm	al Circumsta	nces" presen	t? Yes	X N	o
Are Vegetation	No	,Soil	No	,or Hydrology	No natu	rally probler	matic?	(lf needed, ex	oplain any an	swers in Rem	arks.)	

Hydrophytic Vegetation Prese	ent? Yes	No	x					
Hydric Soil Present?	Yes X	No	<u> </u>	Is the Sampl	ed Area			
Wetland Hydrology Present?	Yes	No	x	within a Wet	land?	Yes	No	х
Remarks:								
This point was determined	h not to be within a we	tland due to th	e lack of hy	drophytic vegetat	rion and wetls	and hydrology		
			c lack of Hy	arophytic vegeta		ina nyarology.		
Wetland hydrology India	ators.						· · · · · · · · · · · · · · · · · · ·	(
Drimany Indicators (minim	um of one is required:	abook all that	opply)			Secondary Indicate	Crocks (R6)	r two required)
Surface Water (A1)	um of one is required,		appiy) tic Equipa (E	212)		Surface Soli	Clacks (DO)	(o Surfaco (B8)
High Water Table (A 2)	Aqua Marl	Nenosite (B	15) (I PP II)		Sparsely ve	uttorns (B10)	e Sullace (Bo)
Saturation (A3)	~2)	Hvdr	ogen Sulfide	r = 0 dor (C1)		Drainage Fa	ines (B16)	
Water Marks (B1)		Oxidi	ized Rhizosi	pheres on Living	Roots(C3)	Drv-Season	Water Table (C	:2)
Sediment Deposits	(B2)	Pres	ence of Red	luced Iron (C4)	10010(00)	Cravfish Bur	rows (C8)	
Drift Deposits (B3)	()	Rece	ent Iron Red	uction in Tilled So	oils (C6)	Saturation V	isible on Aerial	Imagery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surfa	ce (C7)	()	Geomorphic	Position (D2)	5 7 ()
Iron Deposits (B5)		Othe	r (Explain in	Remarks)		Shallow Aqu	itard (D3)	
Inundation Visible of	n Aerial Imagery (B7)					FAC-Neutra	Test (D5)	
Water-Stained Leav	ves (B9)					Sphagnum r	noss (D8) (LRF	R Τ, U)
					1			
Field Observations:								
Surface Water Present?	Yes No	X De	pth (inches)	: <u>N/A</u>				
Water Table Present?	Yes No	X De	pth (inches)	: <u>>20</u>			V	N. Y
(includes capillary fringe)	res No	X De	ptn (inches)	:	wetland Hy	drology Present?	Yes	_ NO _ X
Describe Recorded Data	(stream dauge monito	ning well aeri	al nhotos in	evious inspection	ns) if availab	le:		
Describe Recorded Data	(stream gauge, monite	ning weil, aen	ai priotos, pi	evious inspection	13), 11 availabi	ie.		
Remarks:								
No positive indication of w	vetland hydrology was	observed.						

•								
	Absolute	Dominant	Indicator	Dominance Test w	vorksheet:			
30 ft)	% cover	Species?	Status	Number of Domina	nt Species			
<u> </u>	// 00101			That Are OBL EAC	W or FAC:		1	(Δ)
·				That Are ODE, I AO	W, OTTAO.		<u> </u>	(~)
·				T				
					ominant		•	
· ·				Species Across All	Strata:		2	(B)
<u> </u>								
·				Percent of Dominar	nt Species			
		= Total Cover		That Are OBL, FAC	W, or FAC:	5	0%	(A/B)
50% of total cover:		20% of total cover:						
<u>30 ft.</u>)				Prevalence Index	Worksheet:			
				Total % C	Cover of:		Multiply by:	
				OBL species	0	x 1 =	0	
				FACW species	0	x 2 =	0	
·				FAC species	90	x 3 =	270	
·				FACU species	130	x 4 =	520	
·				LIPL species	0	x 5 =	0	
·		- Total Covar		Column Totolo:		(A)	700	
				Column Totals	220	(A)	/90	(
50% of total cover:		20% of total cover:						
<u>30 π.</u>)				Prevalence	e index = B/A =	·	3.59	
·								
·				Hydrophytic Vege	tation Indicato	ors:		
				1 - Rapid	Fest for Hydrop	ohytic Veç	getation	
				2 - Domina	ance Test is >5	0%		
				3 - Prevale	ence Index is ≤	3.0 ¹		
				Problemat	ic Hydrophytic	Vegetatio	on ¹ (Explain))
		= Total Cover						
50% of total cover:		20% of total cover:		¹ Indicators of hydr	ric soil and wet	land hydr	ology must	
30 ft.)				be present, unless	disturbed or pr	oblematic	D.	
,	80	Yes	FAC	Definitions of Five	Vegetation S	trata:		
·	70	Yes	FACU	Tree - Woody plan	ts. excludina w	oodv vin	es.	
·	30	No	FACU	approximately 20 ft	(6m) or more i	n heiaht :	, and 3 in	
·	30	No	EACU	(7.6 cm) or larger in	diameter at h	roast boir	nd O III.	
·	10					east neig	jiit (DDH).	
·	10	NO	FAC	Sanling - Woody n	lants excluding	woodv r	vines	
······································				approximately 20 ft	(6 m) or more	in height	and less	
<u> </u>				than 2 in (7.6 cm)		Inneight	anu iess	
·				than 5 m. (7.0 cm) i	л.			
·								
				Shrub - Woody pla	nts, excluding	woody vii	nes,	
				approximately 3 to 2	20 ft (1 to 6 m)	in height		
	220	= Total Cover						
50% of total cover:	110	20% of total cover:	44	Herb - All herbaced	ous (non-wood)	y) plants,	including	
30 ft.)				herbaceous vines,	regardless of s	ize, <u>and</u>	woody	
/				plants, except wood	dy vines, less t	han appro	oximately	
·				3 ft (1 m) in height.				
·								
·				Woody vine - All w	oodv vines, re	ardless	of height.	
·				·····, ·····	;	,		
<u> </u>								
		= Total Cover		Hydrophytic				
50% of total cover:		20% of total cover:		Vegetation				
				Present?	Yes	No	х	
						•		
	<u>30 ft.</u>) 50% of total cover: <u>30 ft.</u>)	Absolute % cover % cover % % cover % % % % % % % % % % % % %	Absolute Dominant 30 ft) % cover Species?	Absolute Dominant Indicator 30 ft) % cover Species? Status	Absolute Dominant Indicator 30 ft_) % cover Species? Status	Absolute Dominant Indicator 30 ft) % cover Species? 30 ft) Status Status Status Status <t< td=""><td>Absolute Dominant Indicator 30 ft. % cover Species? Status 30 ft. Species? Status Number of Dominant Species 10 Total Number of Dominant Species Total Number of Dominant Species 11 Species Across All Strata: Percent of Dominant Species 11 Total Number of Dominant Species Total Are OBL, FACW, or FAC: 5 11 Species? Total Are OBL, FACW, or FAC: 5 11 Species? Total Are OBL, FACW, or FAC: 5 11 Species? Total Are OBL, FACW, or FAC: 5 11 Species? Total Are OBL, FACW, or FAC: 5 11 Species? Species? 1 11 Species? Species? 1 11 Species? Species? 1 11 Rapid Test for Hydrophytic Vegetation Indicators: 1 1 11 Rapid Test for Hydrophytic Vegetation Species Cover 1 11 Rapid Test for Hydrophytic Vegetation Species Test is >50% 1 1</td><td>Absolute Dominant Indicator 30 ft. % cover Species? Status </td></t<>	Absolute Dominant Indicator 30 ft. % cover Species? Status 30 ft. Species? Status Number of Dominant Species 10 Total Number of Dominant Species Total Number of Dominant Species 11 Species Across All Strata: Percent of Dominant Species 11 Total Number of Dominant Species Total Are OBL, FACW, or FAC: 5 11 Species? Total Are OBL, FACW, or FAC: 5 11 Species? Total Are OBL, FACW, or FAC: 5 11 Species? Total Are OBL, FACW, or FAC: 5 11 Species? Total Are OBL, FACW, or FAC: 5 11 Species? Species? 1 11 Species? Species? 1 11 Species? Species? 1 11 Rapid Test for Hydrophytic Vegetation Indicators: 1 1 11 Rapid Test for Hydrophytic Vegetation Species Cover 1 11 Rapid Test for Hydrophytic Vegetation Species Test is >50% 1 1	Absolute Dominant Indicator 30 ft. % cover Species? Status

)epth	Matrix			Redox F	eatures			
nches)	Color (moist)	%	Color (moist)	_%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 5/3	100	None				Silt Loam	
4-10	10YR 5/1	90	10YR 4/4	10	C	M	Silt Loam	
Type: C=C	oncentration, D=De	pletion, RM	Reduced Matrix, N	/IS=Maske	d Sand Grains.	² Location: P	L=Pore Lining, M=Matrix	2
lydric Soils	Indicators: (Appl	icable to al	I LRRs, unless oti	nerwise no	oted.)		Indicators for Proble	ematic Hydric Soils [°] :
Histoso	l (A1)		Polyva	lue Below	Surface (S8) (L	.RR S, T, U)	1 cm Muck (A9)	(LRR O)
Histic E	pipedon (A2)		Thin Da	ark Surfac	e (S9) (LRR S,	T, U)	2 cm Muck (A10) (LRR S)
Black H	listic (A3)		Loamy	Mucky Mi	neral (F1) (LRF	R O)	Reduced Vertic	(F18) (outside MLRA 150A,B
Hydrog	en Sulfide (A4)		Loamy	Gleyed Ma	atrix (F2)		Piedmont Flood	olain Soils (F19) (LRR P, S, T)
Stratifie	ed Layers (A5)		X_Deplete	ed Matrix (F3)		Anomalous Brigh	nt Loamy Soils (F20)
Organio	Bodies (A6) (LRR	P, T, U)	Redox	Dark Surfa	ace (F6)		(MLRA 153B)	
5 cm M	ucky Mineral (A7) (I	_RR P, T, U)Deplete	ed Dark Su	urface (F7)		Red Parent Mate	erial (TF2)
Muck P	resence (A8) (LRR	U)	Redox	Depressio	ns (F8)		Very Shallow Da	rk Surface (TF12)
1 cm M	uck (A9) (LRR P, T))	Marl (F	10) (LRR	U)		Other (Explain in	Remarks)
Deplete	ed Below Dark Surfa	ice (A11)	Deplete	ed Ochric ((F11) (MLRA 1	51)	31	
Thick D	Park Surface (A12)		Iron-Ma	anganese	Masses (F12)	(LRR O, P, T)	vetland hydro	loav must be present
Coast H	Prairie Redox (A16)	(MLRA 150	A)Umbrid	Surface (F13) (LRR P, T	, U)	unless disturb	ed or problematic.
Sandy I	Mucky Mineral (S1)	(LRR 0, S)	Delta C) (MLRA 151)			
Sandy	Gleyed Matrix (S4)		Reduce	ed Vertic (I	-18) (MLRA 15	0A, 150B)		
Sandy I	Redox (S5)		Piedmo	ont Floodpl	ain Soils (F19)	(MLRA 149A)		
Strippe	d Matrix (S6)	о т III	Anoma	llous Brigh	t Loamy Soils (F20) (MLRA 14	9A, 153C, 153D)	
Dark Si	urface (S7) (LRR P,	S, I, U)						
estrictive	aver (if observed)	•						
Tuno		-						
Type: Dopth (in	choc):					Hydri	c Soil Prosont? Vos	X No
Deptil (III	cnes).					Пушк	C Soll Flesent? Tes_	<u> </u>
omorko								
ternarks.								
positive in	dication of hydric so	il was obse	rved.					

Project/Site:		Dec	luincy l	ndustrial Park		Parish:		Calcasie	u	Sampling D	Date: A	ugust 2	3, 2018
Applicant/Owner:		S	WLA E	conomic Develo	pment Allian	се	State: Louisia			Sample Point:		SL	.6
Investigator(s):	В	.McNab	b	and	T. Jones	Section, T	ownshi	ip, Range:		Sec. 23	3 - T7S -R11	W	
Landform (hillslope,	terrace,	etc.): _		Depression	ı	Local relie	ef (conc	ave, convex,	none):	Concave	Slope (%):		0-5
Subregion (LRR or M	/LRA):			LRR T		Lat:	30.	43425	Long:	-93.46534	Datum:		NAD83
Soil Map Unit Name	: <u> </u>			Caddo-Messer	complex, 0 to	o 1 percent slo	pes		NWI C	lassification:		None	
Are climatic / hydrolo	ogic conc	litions o	n the si	te typical for this	time of year	? (Yes / No)	Yes	(if no, e	explain in Rem	narks.)		
Are Vegetation	No	_,Soil_	No	,or Hydrology	No si	gnificantly dist	urbed?	Are "Norma	al Circumsta	ances" presen	it? Yes	x	No
Are Vegetation	No	,Soil	No	or Hydrology	No na	aturally problen	natic?	(lf needed, e	explain any an	swers in Ren	narks.)	

Hydronhytic Vegetation Present?	Ves	¥	No					
Hydric Soil Present?	Yes	<u>x</u>	No	- Is the Samn	led Area			
Wetland Hydrology Present?	Yes	<u>x</u>	No	within a We	tland?	Yes	x	Νο
				-				
Remarks:				1				
This point was determined to be	within a w	otland due	to the process	of all 2 watland arits	rio			
I his point was determined to be	within a w	etiand due	e to the presence	or all 3 wetland crite	ria.			
HYDROLOGY								
Wetland hydrology Indicators:					-	Secondary I	ndicators (minimum of two required)
Primary Indicators (minimum of c	one is requ	ired; chec	k all that apply)			X Surfac	ce Soil Cra	cks (B6)
Surface Water (A1)			Aquatic Fau	na (B13)	-	Spars	ely Vegeta	ted Concave Surface (B8)
High Water Table (A2)			Marl Deposi	ts (B15) (LRR U)	-	Draina	age Patterr	ns (B10)
Saturation (A3)			Hydrogen Si	ulfide Odor (C1)	-	Moss	Trim Lines	(B16)
Water Marks (B1)			Oxidized Rh	izospheres on Living	Roots(C3)	Dry-S	eason Wat	er Table (C2)
X Sediment Deposits (B2)			Presence of	Reduced Iron (C4)	-	X Crayfi	sh Burrow	s (C8)
Drift Deposits (B3)			Recent Iron	Reduction in Tilled S	oils (C6)	Satura	ation Visibl	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Thin Muck S	urface (C7)	-	Geom	orphic Pos	sition (D2)
Iron Deposits (B5)		(D7)	Other (Expla	in in Remarks)	-		w Aquitaro	1 (D3)
Inundation Visible on Aeria	al Imagery	(B7)			-	X FAC-i		
)				-	Spria	gnum mos	(D0) (LKK I, U)
Field Observations:					1			
Surface Water Present? Yes	N	o X	Depth (inc	hes) [.] N/A				
Water Table Present? Yes	N	o X	Depth (inc	hes): >20				
Saturation Present? Yes	N	o X	Depth (inc	hes): >20	Wetland Hydr	rology Prese	ent? Ye	s X No
(includes capillary fringe)				,		0,		
Describe Recorded Data (stream	n gauge, m	nonitoring	well, aerial photo	s, previous inspectio	ons), if available:			
		-						
Remarks:								
A positive indication of wetland h	ydrology v	was obser	ved (at least one	primary indicator).				
A positive indication of watland h	wdrology	vaa abaar	und (at logat two	accordory indicatory	2)			
A positive indication of wettand h	iyurology v	vas obser	veu (at least two	secondary indicators	»).			

SL

		Absolute	Dominant	Indicator	Dominance Test worksh	neet:		
Tree Stratum (Plot size [.]	30 ft)	% cover	Species?	Status	Number of Dominant Spe	cies		
1 None Observed	<u> </u>	// 00/01			That Are OBL_FACW_or	FAC	3	(A)
2			·				<u> </u>	(,,)
3			·		Total Number of Dominar	at		
3			·		Species Across All Strata	·	3	(B)
5			·			·	<u> </u>	(D)
6			·		Porcent of Dominant Spo	cios		
0			= Total Cover		That Are OBL_EACW_or	FAC	100%	(A/B)
	50% of total cover:		20% of total cover		mat Are ODE, I AOW, O	TAO	100 /0	(ЛО)
Sanling Stratum (Plot size:	30 ft)				Prevalence Index Works	sheet:		
1 None Observed	<u> </u>				Total % Cover	of	Multiply by	
2			·			<u>50 x1 =</u>	= 50	. <u> </u>
3			·		EACW species	50 x 2 =	300	
4			·		FAC species	<u>50</u> x2=	= 150	
5			·		FACIL species	<u>0 x4</u> =	= 0	
6			·			<u> </u>	= 0	
0			= Total Cover		Column Totals: 2	<u> </u>	500	(B)
	50% of total cover		20% of total cover			(^)		(D)
Shrub Stratum (Plot size.	30 ft)				Prevalence Inde	x = B/A =	2.00	
1 None Observed	/						2.00	
2.			·		Hydrophytic Vegetation	Indicators:		
3.		-	·		1 - Rapid Test fo	r Hvdrophvtic V	egetation	
4.					X 2 - Dominance T	est is >50%	5	
5.					X 3 - Prevalence Ir	ndex is $\leq 3.0^1$		
6.					Problematic Hyd	rophytic Vegeta	ition ¹ (Explain)
			= Total Cover					
	50% of total cover:		20% of total cover:		¹ Indicators of hydric soil	and wetland hy	drology must	
Herb Stratum (Plot size:	30 ft.)		-		be present, unless disturb	bed or problema	itic.	
1. Rhynchospora colorata		60	Yes	FACW	Definitions of Five Vege	tation Strata:		
2. <u>Paspalum dilatatum</u>		50	Yes	FAC	Tree - Woody plants, exc	luding woody v	ines,	
3. <u>Rhexia mariana</u>		50	Yes	FACW	approximately 20 ft (6m)	or more in heigh	it and 3 in.	
4. Eleocharis montevidensis		40	No	FACW	(7.6 cm) or larger in diam	eter at breast he	eight (DBH).	
5. Rhynchospora caduca		25	No	OBL				
6. Fuirena breviseta		25	No	OBL	Sapling - Woody plants,	excluding wood	y vines,	
7					approximately 20 ft (6 m)	or more in heigl	ht and less	
8					than 3 in. (7.6 cm) DBH.			
9								
10			·		Shrub - woody plants, ex		vines,	
11					approximately 3 to 20 ft (to 6 m) in neig	nt.	
		250	= Total Cover				- in dualie -	
	50% of total cover:	125	20% of total cover:	50	herbassous vince, regard	n-woody) plant	s, including	
Woody Vine Stratum (Plot size	: <u> </u>				nerbaceous vines, regard	less of size, <u>and</u>	<u>u</u> woody provimatoly	
1. None Observed			· · · · · · · · · · · · · · · · · · ·		3 ft (1 m) in boight	s, less than app	JIOAIIIIately	
2			·		o n (i m) in neight.			
3			·		Woody vine - All woody y	vines recardles	s of height	
4						inico, roguraioo	o of fioight.	
5					Hudrophytic			
	50% of total cover:		20% of total cover		Vegetation			
			20 % 01 101ai COVEL.		Present? Ves	X No		
					Fiesent: Tes_	<u> </u>		
Remarks: (if observed list m	orphological adaptet	ions below	/).					
A positive indication of hydro	phytic vegetation was	s observed	l (>50% of dominant	species inde	exed as OBL, FACW, or FAC).			
			(Drouglar l	a < 2.00\	. ,			
A positive indication of hydro	pnytic vegetation was	sobserved	i (Prevalence Index i	s ≤ 3.00).				

Inchesity Color (moist) % Type Loc ² Texture Remarks 3-16 10YR 6/1 95 10YR 4/8 5 C PL Sitt)epth	Matrix			Redox F	eatures			
0-3 10YR 8/1 95 10YR 4/8 5 C PL Sitt 3-16 10YR 5/1 80 7.5YR 6/8 20 C M&PL Sitt 3-16 10YR 5/1 80 7.5YR 6/8 20 C M&PL Sitt	nches)	Color (moist)	_%	Color (moist)		Type ¹	Loc ²	Texture	Remarks
3.16 10YR 5/1 80 7.5YR 6/8 20 C M&PL Sitt Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Histic Explored on (A2) Thin Dark Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR C) Histic Explored on (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Micky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 15 Stratified Layers (A5) X Depleted Matrix (F2) Peletedmont Floodplain Solis (F20) Stratified Layers (A5) X Depleted Matrix (F2) Peletedmont Floodplain Solis (F19) (LRR V) Gragnic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Think Dark Surface (A11) Depleted Dark Surface (F12) (LRR O, P, T) Sandy Matrix (S1) (LRR A (S0) Sandy Redox (S5) Deta Ochric (F11) (MLRA 150) Other (Explain in Remarks) Sandy Redox (S5) Deta Ochric (F13) (MLRA 150A, 150B)	0-3	10YR 6/1	95	10YR 4/8	5	C	PL	Silt	
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. *Location: PL-Pore Lining, M-Matrix. Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Polyvalue Below Surface (S9) (LRR S, T, U) 2 cm Muck (A9) (LRR O) Histosol (A1) Loamy Mucky (Mineral (F1) (LRR O) Reduced Vertic (F18) (unside MLRA 15) Black Histos (A3) Loamy Mucky (Mineral (F1) (LRR O) Reduced Vertic (F18) (unside MLRA 15) Organic Bodies (A6) (LRR P, T, U) Redox Depressions (F8) Vertic (F18) (unstratic (F72) Muck (A9) (LRR P, T, U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Muck (A9) (LRR P, T, U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Muck (A9) (LRR P, T) Mari (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Sindy Glevy Matrix (S4) Sandy Glevy Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Netland Hydrology must be present, unless disturbed or problematic. Sandy Glevy Matrix (S4) Reduced Vertic (F10) (MLRA 150A, 150B) Pledmont Floodplain Soils (F19) (MLRA 149A, 153C, 153D) Sandy Glevy Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) <td>3-16</td> <td>10YR 5/1</td> <td>80</td> <td>7.5YR 6/8</td> <td>20</td> <td>C</td> <td>M&PL</td> <td>Silt</td> <td></td>	3-16	10YR 5/1	80	7.5YR 6/8	20	C	M&PL	Silt	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Histoc Splots Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls ¹ : Histoc Splots Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls ¹ : Histoc Splots Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls ¹ : Histoc Splots Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls ¹ : Histoc Splots Indicators: (Applicable to all LRRs, unless otherwise noted.) Icm Muck (A10) (LRR P) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (Dustide MLRA 15 Stratified Layers (A5) Mergen Solis (F20) (MLRA 153B) Scand Mucky Mineral (A1) Depleted Dark Surface (F7) Red Parent Material (TF2) Indicators of Hydrophylic vegetation a wetaway for the model work (A10) (LRR P, T, U) Poleted Dark Surface (F2) Very Shallow Dark Surface (A11) Depleted Bore Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophylic vegetation a wetaway for down and burget present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Reduced								<u> </u>	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²¹ coation: PL=Pore Lining, M=Matrix. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²¹ coation: PL=Pore Lining, M=Matrix. Mydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histosol (A1) Polyvalue Below Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR R) Black Histosi (A3) Loamy Mucky Mineral (F1) (LRR O) Redox Outside MLRA 11 Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Redox Depleted Matrix (F2) Pledmont Floodplain Soils (F10) (LRR P) Granic Bodie (Ab) (LRR P, T, U) Depleted Dark Surface (F6) (MLRA 153B) Commode Matrix (F2) Granic Bodie (Ab) (LRR P, T, U) Depleted Dark Surface (F6) (MLRA 153B) Commode Matrix (F2) Mucky Presence (A8) (LRR P, T, U) Depleted Ochric (F11) (MLRA 151) Cher Shallow Dark Surface (TF12) Cher Shallow Dark Surface (TF12) Icm Muck (A0) (LRR P, T, U) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Ochric (F11) (MLRA 151) Thindicators of hydrophytic vegetation a welland hydrology must be present; Coast Prairis Redox (A16) Matric [10] (LRR O, S) Delta Ochric (F12) (MLRA 150A), 15								<u> </u>	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. typer: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. typer: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. typer: C=Concentration, D=Depletion RM=Reduced Matrix (S) Polyvalue Below Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histos ((A1) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 154 Hydrogen Suffek (A4) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) S cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) 1 cm Muck (A9) (LRR P, T, U) Depleted Octric (F11) (MLRA 151) Other (Explain in Remarks) Depleted Bode Dark Surface (A11) Depleted Octric (F17) (MLRA 151) Other (Explain in Remarks) Coast Praine Redox (A16) (MLRA 150A) Umbric Surface (F13) (ILRR P, T, U) woltant hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Matrix (S4) Reduced Vertio (F13) (ILRA 150)									
Type: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ^a Location: PL=Pore Lining, M=Matrix. hydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histocsol (A1) Polyvalue Below Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histocsol (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Pledmont Floodplain Soils (F19) (LRR P) Stratified Layers (A5) X Depleted Matrix (F2) Red vertic (F18) (outside MLRA 14) Grain Bodies (A6) (LRR P, T, U) Depleted Matrix (F2) Red Parent Material (TF2) Muck (A10) (LRR V) Stratified Layers (A5) Work Presence (A8) (LRR P, T) Mart (F10) (LRR U) Other (Explain in Remarks) Depleted Bolow Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Sandy Mucky Mineral (S1) (LRR O, S) Debleta Ochric (F11) (MLRA 151) andicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Pieldmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Bark Surface (S7) (LRR P, S, T, U) Poelto Chric (F17) (MLRA 150) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Type: - C-dotter lation, D-zepiption, Nue-Netaduced Walta, Nue-Netaduced Variants, Indicators: Lobation, Piz-Pote Linning, M-Maila, Mid-Missaed Safe Ostants, Lobation, Piz-Pote Linning, M-Maila, Type: C-dotter Linning, M-Maila, M-Mai						d Cand Crains		-Dara Lining M-Matri	
All Stores (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 om Muck (A9) (LRR O) Histos (A3) Loamy Mucky Mineral (F1) (LRR O) 2 om Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 11 Hydrogen Sulfide (A4) Loamy Oleved Matrix (F2) Peleted Matrix (F3) Anomalous Bright Loamy Solis (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Anomalous Bright Loamy Solis (F20) (MLRA 1538) 5 cm Muck (M9) (ILRR P, T) Depleted Dark Surface (F11) Peleted Dark Surface (F12) Very Shallow Dark Surface (T12) 1 om Muck (A9) (LRR P, T) Matri (F10) (LRR V) Depleted Dark Surface (F13) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) other (Explain in Remarks) Sandy Mucky Mineral (S1) (LRR O, S) Detat Ochric (F17) (MLRA 151) other (Explain in Remarks) Sandy Redox (S5) Piedmont Floodplain Solis (F20) (MLRA 149A) stiraped Matrix (S6) Sandy Redox (S5) Piedmont Floodplain Solis (F19) (MLRA 149A) Stripped Matrix (S6) Sandy Redox (S5) Piedmont Floodplain Solis (F20) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depleted Matrix (S6) <	Type. C=Co	Indicators: (Appl	icable to a	III RRs unless of	orwise no	ted)	Elocation. PL	Indicators for Probl	x. ematic Hydric Soils ³ :
Inside (Projector (A2) Thin Dark Surface (S9) (LRR 5, T, U) 2 cm Muck (A0) (LRR 5) Histic Epigedon (A2) Thin Dark Surface (S9) (LRR 5, T, U) 2 cm Muck (A0) (LRR 5) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR 0) Reduced Vertic (F18) (outside MLRA 14) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Solis (F19) (LRR 7) Stratified Layers (A5) X Depleted Matrix (F2) Red Parent Material (TF2) Muck (A9) (LRR P, T, U) Depleted Matrix (F1) Red Parent Material (TF2) Muck (A9) (LRR P, T) Depleted Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Depleted Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Depleted Chrix (F11) (MLRA 150) other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Chrix (F12) (LRR O, P, T) velland hydrophytic vegetation a welland hydrophytic vegetation a solid set (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 150A) Sandy Mucky Mineral (S1) Reduced Vertic (F18) (MLRA 150A, 150B) anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Piedmont Floodplain Solis (F19) (MLRA 149A, 153C, 153D)	Histosc			Polyval		Surface (S8) (1 cm Muck (A9)	(I RR O)
Initial Experience (val) Image and the set of the set	Histic F	ninedon (A2)		Thin D	ark Surface	(S9) (I RR S		2 cm Muck (A10	
Loany Matrix (F2) Loany Matrix (F2) Loany Matrix (F2) Piedmont Floodplain Soils (F19) (LRR 0) Caparic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 1538) Caparic Bodies (A6) (LRR P, T, U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR P, T) Marl (F10) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Tom Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Dark Surface (F12) Coast Prairie Redox (A16) (MLRA 150A) Defla Ochric (F11) (MLRA 151) Tonc-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Pledmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S4) Anomalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) testrictive Layer (if observed): Type: Depth (inches): type: Depth indication of hydric soil was observed.	Black F	listic (A3)			Mucky Mir	neral (F1) (I R	R (0)	2 en Mdek (///c	(F18) (outside MI RA 150A F
Stratified Layers (A5) X Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 orm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF2) 1 orm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) ³ Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (MLRA 150A, 150B) ³ Indicators of problematic. Sandy Mucky Mineral (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes X No Model Surface (S0) (LR P, S, T, U) Type:	Hvdrog	en Sulfide (A4)		Loamy	Gleved Ma	atrix (F2)		Piedmont Flood	plain Soils (F19) (LRR P. S. T
Corganic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 1538) S cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) (MLRA 1538) Muck Presence (A8) (LRR P, T) Depleted Dark Surface (F7) Red Parent Material (TF2) 1 cm Muck (A9) (LRR P, T) Mari (F10) (LRR U) Other (Explain in Remarks) Depleted Bolow Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Tinch Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (MLRA 150A, 150B) sandy Redox (S5) Piedmont Floodplain Solis (F19) (MLRA 149A, 153C, 153D) Sandy Redox (S5) Piedmont Floodplain Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) testrictive Layer (if observed): Type:	Stratifie	ed Lavers (A5)		X Deplete	ed Matrix (I	=3)		Anomalous Brig	ht Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Tinck Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic. Sandy Macky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) stipped Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Type:	Organic	c Bodies (A6) (LRR	P, T, U)	Bepret	Dark Surfa	ace (F6)		(MLRA 153B)	
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Ion-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic. Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Belte Ochric (F17) (MLRA 151) settand hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Pledmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (if observed): Type: Type: Hydric Soil Present? Yes X No Depth (inches): No vpositive indication of hydric soil was observed. No	5 cm M	ucky Mineral (A7) (I	_RR P, T, I	J) Deplete	ed Dark Su	Inface (F7)		Red Parent Mat	erial (TF2)
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) ³ Indicators of hydrophytic vegetation e Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR O, P, T) ^a Indicators of hydrophytic vegetation e Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) ^a Indicators of hydrophytic vegetation e Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) ^a Indicators of hydrophytic vegetation e Sandy Mucky Mineral (S1) Reduced Vertic (F18) (MLRA 150A, 150B) ^a Indicators of hydrophytic vegetation e Sandy Medox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) testrictive Layer (if observed): Type:	Muck P	Presence (A8) (LRR	U)	Redox	Depressio	ns (F8)		Very Shallow Da	ark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F17) (MLRA 150A) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Kestrictive Layer (if observed): Type:	1 cm M	uck (A9) (LRR P, T))	Marl (F	10) (LRR	U)		Other (Explain i	n Remarks)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) testrictive Layer (if observed): Type: Depth (inches): temarks: vpositive indication of hydric soil was observed.	Deplete	ed Below Dark Surfa	ice (A11)	Deplete	ed Ochric (F11) (MLRA '	151)		
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Estrictive Layer (if observed): Type:	Thick D	ark Surface (A12)		Iron-Ma	anganese l	Masses (F12)	(LRR O, P, T)	³ Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151)	Coast F	Prairie Redox (A16)	(MLRA 15	0A) Umbric	Surface (F	=13) (LRR P, '	T, U)	wetland hydro	blogy must be present,
Sandy Gleyed Matrix (S4)Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5)Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6)Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) 	Sandy I	Mucky Mineral (S1)	(LRR O, S)Delta C	Ochric (F17) (MLRA 151)	1		bed of problematic.
Sandy Redox (S5)Piedmont Floodplain Soils (F19) (MLRA 149A)	Sandy	Gleyed Matrix (S4)		Reduce	ed Vertic (F	18) (MLRA 1	50A, 150B)		
Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Remarks: A positive indication of hydric soil was observed.	Sandy I	Redox (S5)		Piedmo	ont Floodpl	ain Soils (F19) (MLRA 149A)		
Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Remarks: A positive indication of hydric soil was observed.	Strippe	d Matrix (S6)		Anoma	lous Bright	Loamy Soils	(F20) (MLRA 149	A, 153C, 153D)	
Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: A positive indication of hydric soil was observed.	Dark Su	urface (S7) (LRR P,	S, T, U)						
Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: A positive indication of hydric soil was observed.	Postrictivo	l avor (if obsorved)	•						
Type:	Turner	Layer (II Observed)	-						
Remarks:	Type:						Undria	Sail Dresent? Ves	Y No
Remarks:	Depth (In	cnes):					Hydric	Soll Present? Yes_	<u> </u>
A positive indication of hydric soil was observed.									
A positive indication of hydric soil was observed.	lemarks.								
	opositive in	dication of hydric so	il was obse	erved.					
		2							

Project/Site:		Dec	luincy l	ndustrial Park		Parish:		Calcasie	u	_Sampling D	ate: Au	ugust 23	, 2018
Applicant/Owner:		S	WLA E	Economic Develo	pment Alliance		Stat	te:	Louisiana	Sample Po	oint:	SL7	
Investigator(s):	В	.McNab	b	and	T. Jones	Section, T	ownshi	p, Range:		Sec. 23	3 - T7S -R11\	N	
Landform (hillslope,	terrace,	etc.):		Plain		Local relie	ef (conca	ave, convex	none):	None	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30.4	13488	Long:	-93.46512	Datum:	١	NAD83
Soil Map Unit Name	:			Caddo-Messer	complex, 0 to 1	percent slo	opes		NWI Cla	assification:		None	
Are climatic / hydrol	ogic cond	ditions o	n the s	ite typical for this	time of year?	(Yes / No	D)	Yes	(if no, ex	plain in Rem	arks.)		
Are Vegetation	No	_,Soil_	No	or Hydrology	No signi	ificantly dist	urbed?	Are "Norm	al Circumsta	nces" presen	t? Yes	x N	lo
Are Vegetation	No	,Soil	No	,or Hydrology	No natu	rally probler	natic?	(lf needed, ex	oplain any an	swers in Rem	arks.)	

Hydrophytic Vegetation Prese	ent? Yes	No	x					
Hydric Soil Present?	Yes X	No	<u> </u>	Is the Sampl	ed Area			
Wetland Hydrology Present?	Yes	No	x	within a Wet	land?	Yes	No	х
Remarks:								
This point was determined	h not to be within a we	tland due to th	e lack of hy	drophytic vegetat	rion and wetls	and hydrology		
			c lack of Hy	arophytic vegeta		ina nyarology.		
Wetland hydrology India	ators.						· · · · · · · · · · · · · · · · · · ·	(
Drimany Indicators (minim	um of one is required:	abaak all that	opply)			Secondary Indicate	Crocks (R6)	r two required)
Surface Water (A1)	um of one is required,		appiy) tic Equipa (E	212)		Surface Soli	Clacks (DO)	(o Surfaco (B8)
High Water Table (A 2)	Aqua Marl	Nenosite (B	15) (I PP II)		Sparsely ve	uttorns (B10)	e Sullace (Bo)
Saturation (A3)	~2)	Hvdr	ogen Sulfide	r = 0 dor (C1)		Drainage Fa	ines (B16)	
Water Marks (B1)		Oxidi	ized Rhizosi	pheres on Living	Roots(C3)	Drv-Season	Water Table (C	:2)
Sediment Deposits	(B2)	Pres	ence of Red	luced Iron (C4)	10010(00)	Cravfish Bur	rows (C8)	
Drift Deposits (B3)	()	Rece	ent Iron Red	uction in Tilled So	oils (C6)	Saturation V	isible on Aerial	Imagery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surfa	ce (C7)	()	Geomorphic	Position (D2)	5 7 ()
Iron Deposits (B5)		Othe	r (Explain in	Remarks)		Shallow Aqu	itard (D3)	
Inundation Visible of	n Aerial Imagery (B7)					FAC-Neutra	Test (D5)	
Water-Stained Leav	ves (B9)					Sphagnum r	noss (D8) (LRF	R Τ, U)
					1			
Field Observations:								
Surface Water Present?	Yes No	X De	pth (inches)	: <u>N/A</u>				
Water Table Present?	Yes No	X De	pth (inches)	: <u>>20</u>			V	N. Y
(includes capillary fringe)	res No	X De	ptn (inches)	:	wetland Hy	drology Present?	Yes	_ NO _ X
Describe Recorded Data	(stream dauge monito	ning well aeri	al photos in	evious inspection	ns) if availab	le:		
Describe Recorded Data	(stream gauge, monite	ning weil, aen	ai priotos, pi	evious inspection	13), 11 availabi	ie.		
Remarks:								
No positive indication of w	vetland hydrology was	observed.						

Sampling Point:

SL7

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:	<u>30 ft.</u>)	% cover	Species?	Status	Number of Dominant Species		
1. <u>Pinus palustris</u> 2.		5	Yes	FACU	That Are OBL, FACW, or FAC:	1	(A)
3.			· ·		Total Number of Dominant		
4.	<u> </u>		·		Species Across All Strata:	4	(B)
5.							. ,
δ.					Percent of Dominant Species		
		5	= Total Cover		That Are OBL, FACW, or FAC:	25%	(A/B)
	50% of total cover:	2.5	20% of total cover:	1			
Sapling Stratum (Plot size:	<u>30 ft.</u>)				Prevalence Index Worksheet:		
1. None Observed					Total % Cover of:	Multiply by	:
2			<u> </u>		OBL species 0	x 1 =0	
3			. <u> </u>		FACW species 0	x 2 =0	
4			<u> </u>		FAC species 50	x 3 = 150	
5					FACU species 120	x 4 = 480	
õ					UPL species 0	x 5 =0	
			= Total Cover		Column Totals: 170	(A) 630	(B
	50% of total cover:		20% of total cover:				
Shrub Stratum (Plot size:	<u>30 ft.</u>)				Prevalence Index = B/A =	=	
1. Morella cerifera		10	Yes	FAC			
2			. <u> </u>		Hydrophytic Vegetation Indicate	ors:	
3			. <u> </u>		1 - Rapid Test for Hydrop	hytic Vegetation	
4					2 - Dominance Test is >5	60%	
5					3 - Prevalence Index is ≤	3.0 ¹	
6					Problematic Hydrophytic	Vegetation ¹ (Explain)
		10	= Total Cover				
	50% of total cover:	5	20% of total cover:	2	¹ Indicators of hydric soil and wet	land hydrology must	
Herb Stratum (Plot size:	30 ft.)				be present, unless disturbed or pr	oblematic.	
1. Digitaria ciliaris		60	Yes	FACU	Definitions of Five Vegetation S	trata:	
2. Paspalum notatum		35	Yes	FACU	Tree - Woody plants, excluding w	voody vines,	
3. Paspalum dilatatum		20	No	FAC	approximately 20 ft (6m) or more i	n height and 3 in.	
4. Dichanthelium sphaerocarpo	n	20	No	FACU	(7.6 cm) or larger in diameter at b	reast height (DBH).	
5. Liatris spicata		20	No	FAC	· · · ·		
6.			· ·		Sapling - Woody plants, excluding	g woody vines,	
7.			· ·		approximately 20 ft (6 m) or more	in height and less	
8.	<u> </u>		· ·		than 3 in. (7.6 cm) DBH.		
9.			· ·				
0.			· ·		Shrub - Woody plants, excluding	woody vines,	
1.	<u> </u>				approximately 3 to 20 ft (1 to 6 m)	in height.	
· · · ·		155	= Total Cover				
	50% of total cover	77.5	20% of total cover	31	Herb - All herbaceous (non-wood	y) plants, including	
Woody Vine Stratum (Plot size	30 ft)		20 /0 01 10101 00101.		herbaceous vines, regardless of s	ize, and woody	
1 None Observed					plants, except woody vines, less t	han approximately	
2			· ·		3 ft (1 m) in height.		
3			· ·				
4			· ·		Woody vine - All woody vines, re	gardless of height.	
5			· ·				
·			= Total Cover		Hydrophytic		
	50% of total cover		20% of total cover		Vegetation		
					Present? Ves	No X	
						<u> </u>	
Pomarke: (if charged list	orphological adapt-t	ione belev	λ)				
Remarks: (if observed, list m	orphological adaptat	ions below	/).				
Remarks: (if observed, list m No positive indication of hydr	orphological adaptat	ions below as observe	/). ed (≥50% of dominan	it species ind	lexed as FAC− or drier).		

epth	Matrix		Rec	dox Features			
nches)	Color (moist)	%	Color (moist) %	5 Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/2	95	10YR 4/65	<u> </u>	M	Silt	
						·	
						·	
						·	
						·	
						·	
 Type: C=Co	oncentration. D=Der	oletion. RM=	Reduced Matrix, MS=Ma	 asked Sand Grains	² Location: PL	=Pore Lining, M=Matr	ix.
ydric Soils	Indicators: (Appl	icable to al	LRRs, unless otherwis	se noted.)		Indicators for Prob	lematic Hydric Soils ³ :
Histoso	l (A1)		Polyvalue Be	elow Surface (S8) (LRR S, T, U)	1 cm Muck (A9) (LRR 0)
Histic E	pipedon (A2)		Thin Dark Su	urface (S9) (LRR S	, T, U)	2 cm Muck (A1	0) (LRR S)
Black H	listic (A3)		Loamy Muck	y Mineral (F1) (LR	R 0)	Reduced Vertic	(F18) (outside MLRA 150A,
Hydrog	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmont Floor	lplain Soils (F19) (LRR P, S, T
Stratifie	ed Layers (A5)		X Depleted Ma	trix (F3)		Anomalous Brig	ght Loamy Soils (F20)
Organic	Bodies (A6) (LRR	P, T, U)	Redox Dark	Surface (F6)		(MLRA 153B)	
5 cm M	ucky Mineral (A7) (L	_RR P, T, U) Depleted Da	rk Surface (F7)		Red Parent Ma	terial (TF2)
Muck P	resence (A8) (LRR	U)	Redox Depre	essions (F8)		Very Shallow D	ark Surface (TF12)
1 cm M	uck (A9) (LRR P, I)	(Marl (F10) (L			Other (Explain	in Remarks)
Deplete	ed Below Dark Surfa	ice (A11)		nric (F11) (MLRA 7	151) (LDB O D T)	³ Indicators o	f hydrophytic vocatation and
	Prairie Redex (A12)	(MI DA 150				wetland hydr	ology must be present,
Coast F	Mucky Mineral (S1)	(INILKA 150	A)OIIIbric Suria	(F17) (MI RA 151)	1, 0)	unless distur	bed or problematic.
Sandy (Gleved Matrix (S4)	(2.1.1.0,0)	Reduced Ver	rtic (F18) (MLRA 1	50A. 150B)		
Sandy F	Redox (S5)		Piedmont Flo	odplain Soils (F19) (MLRA 149A)		
Stripped	d Matrix (S6)		Anomalous E	Bright Loamy Soils	(F20) (MLRA 149	A, 153C, 153D)	
 Dark Sι	urface (S7) (LRR P,	S, T, U)		0 ,	. , .		
estrictive I	Layer (if observed)	:					
Type:							
Depth (in	ches):				Hydric	Soil Present? Yes	X No

Project/Site:		Dec	luincy l	ndustrial Park		Parish:		Calcasie	u	Sampling D	ate: Au	ugust 23,	2018
Applicant/Owner:		S	WLA E	conomic Develo	pment Alliance		State	: _	Louisiana	_ Sample Po	oint:	SL8	
Investigator(s):	В	.McNab	b	and	T. Jones	Section, T	ownship,	Range:		Sec. 23	3 - T7S -R11\	N	
Landform (hillslope,	terrace,	etc.):		Plain		Local relie	ef (concav	/e, convex,	none):	None	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30.43	3752	Long:	-93.46809	Datum:	N	IAD83
Soil Map Unit Name	: <u> </u>			Glenmora si	lt loam, 1 to 3 pe	ercent slope	S		NWI Cl	assification:		None	
Are climatic / hydrole	ogic conc	litions o	n the si	te typical for this	time of year?	(Yes / No)	Yes	(if no, e	xplain in Rem	arks.)		
Are Vegetation	No	_,Soil_	No	or Hydrology,	<u>No</u> signit	ficantly distu	urbed?	Are "Norma	al Circumsta	nces" presen	t? Yes	X N	o
Are Vegetation	No	,Soil	No	,or Hydrology	No natur	rally problen	natic?	(lf needed, e	xplain any an	swers in Rem	narks.)	

Hydrophysic Vagelation Present? Yes No X is the Sampled Area Weiland Hydrology Present? Yes No X is the Sampled Area Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology. No X PTOPECIES:											
hydrology Present? Yes No X is the Sampled Area within a Wetland? Yes No X Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology. No X <td>Hydrophytic Vegetation Pre</td> <td>esent? Yes</td> <td>x</td> <td></td> <td>No</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Hydrophytic Vegetation Pre	esent? Yes	x		No						
Wetand Hydrology Present? Yes No X Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Status (A) Main Deposits (B15) (LRR U) Darabely Objective Soil Cracks (B0) Status (A) Main Deposits (B15) (LRR U) Darabely Objective Soil Cracks (B0) Status (A) Main Deposits (B15) (LRR U) Darabely Objective Soil Cracks (B0) Status (A) Presence of Reduced Inor (C(A) CrayBin Burryey (C9) Status (B1) Oddized Rhizospheres on Lving Roos(C(3)) Diverse (B1) Water Marks (B1) Oddized Rhizospheres on Lving Roos(C(3)) Diverse (B1) Status (B3) Recent from Reduction in Tilled Soils (C6) Saturation Viable on Aerial Imagery (C9) Hund Aldro Crust (B4) Other (Explain in Remarks) Shallow Aquired (D3) Shallow Aquired (D3) Water Table Present? Yes No X Depth (inches): 220 Wetland Hydrology Present? Yes	Hydric Soil Present?	Yes	;		No –	x	Is the Sampl	ed Area			
Remarks: This point was determined not to be within a wetland due to the lack of hydric soils and wetland hydrology. HYDROLOGY Wetland hydrology Indicators:	Wetland Hydrology Present	t? Yes	;		No _	x	within a Wet	land?	Yes	No	х
Sundae Water (A1)	Remarks: This point was determin HYDROLOGY Wetland hydrology Inc Primary Indicators (min	ned not to be wit	hin a we	etland du	all that	apply)	ic soils and we	tland hydrology.	<u>Secondary Indicat</u> Surface Soi	ors (minimum I Cracks (B6)	of two required)
High Water Table (A2) Min Deposits (B3) (LRK 0) Dranage Patterns (B10) Statistic (A2) High/Qeng Still(de Odr (C1) Mos Strim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots(C3) Dry-Season Water Table (C2) Sediment Deposits (B3) Recent ton Reduced tron (C4) Crayfish Burrows (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) X FAC-Neutral Test (D5) Water Table Present? Yes No X Water Table Present? Yes No X Vater Table Present? Yes No X Vater Table Present? Yes No X Vater Table Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Includes capillary fringe) No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No X No X No positive indication of wetland	Surface Water (A	(1)			Aqua	atic Fauna (B1	13)		Sparsely Ve	getated Conca	ave Surface (B8)
Water Marks (B1) Oxidized Rhizospheres on Living Roots(C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced iron (C4) Crarifish Burrows (C8) Drift Deposits (B3) Recent Iron Reducetion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) Matter Table Present? Yes No X Surface Water Present? Yes No X Saturation Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No X Remarks: No positive indication of wetland hydrology was observed. No X Image: Present Present? Yes No X	High Water Table Saturation (A3)	e (A2)			Marl Hvdr	Deposits (B1 ogen Sulfide	5) (LRR U) Odor (C1)		Drainage Pa Moss Trim L	atterns (B10) _ines (B16)	
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Solis (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (S5) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) X FAC-Neutral Test (D5) Surface Water Present? Yes No X Water Table Present? Yes No X Cincludes capillary finge) Depth (inches): >20 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No positive indication of wetland hydrology was observed. No X	Water Marks (B1)			Oxid	ized Rhizospł	neres on Living	Roots(C3)	Dry-Season	Water Table ((C2)
Image: Constraint of the constraint	Sediment Deposi	its (B2)			Pres	ence of Redu	ced Iron (C4)		Crayfish Bu	rrows (C8)	
Algal Mat or Crust (B4)	Drift Deposits (B3	3)			Rece	ent Iron Reduc	ction in Tilled Se	oils (C6)	Saturation V	/isible on Aeria	al Imagery (C9)
Includation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) X FAC-Neutral Test (D5) Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No positive indication of wetland hydrology was observed.	Algal Mat or Crus	st (B4)			Thin	Muck Surface	e (C7)		Geomorphic	Position (D2)	
	Iron Deposits (B5	5)			Othe	r (Explain in F	Remarks)		Shallow Aqu	uitard (D3)	
	Inundation Visible	e on Aerial Imag	ery (B7)					X FAC-Neutra	l Test (D5)	
Field Observations: Surface Water Present? Yes No X Depth (inches): >20 Water Table Present? Yes No X Depth (inches): >20 Saturation Present? Yes No X Depth (inches): >20 Multiple Saturation Present? Yes No X Depth (inches): >20 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No X Remarks: No positive indication of wetland hydrology was observed. No No	Water-Stained Le	eaves (B9)							Sphagnum	moss (D8) (LR	ιR Τ, U)
Field Observations: Surface Water Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X No X Depth (inches): >20 Depth (inches): >20 Wetland Hydrology Present? Yes No X No X Indication of wetland hydrology was observed.											
Surface Water Present? Yes No X Water Table Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X O X Image: Second diameters of the	Field Observations:				_						
Water lable Present? Yes No X Depth (inches): >20 Saturation Present? Yes No X Depth (inches): >20 Wetland Hydrology Present? Yes No X	Surface Water Present?	Yes	_ No _	<u> </u>	De	pth (inches):	<u></u>				
Saturation Present? YesNoX Depth (inches):20 wetrand Hydrology Present? YesNoX Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present?	Yes	- ^{No} _	<u> </u>	. De	pth (inches):	>20			M	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No positive indication of wetland hydrology was observed.	Saturation Present? (includes capillary fringe)	Yes	_ No _		De	pth (inches):		Wetland Hydr	rology Present?	Yes	NOX
Remarks: No positive indication of wetland hydrology was observed.	Describe Recorded Dat	ta (stream gaug	e, monit	oring we	ell, aeri	al photos, pre	vious inspectio	ns), if available:	:		
No positive indication of wetland hydrology was observed.	Remarks:										
	No positive indication o	f wetland hydrol	ogy was	s observ	ed.						

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:	<u>30 ft.</u>)	% cover	Species?	Status	Number of Dominant Species		
1. <i>Pinus palustris</i>		40	Yes	FACU	That Are OBL, FACW, or FAC:	5	(A)
2. Quercus nigra		50	Yes	FAC			
3. <u>Celtis laevigata</u>		30	Yes	FACW	Total Number of Dominant		
4. Acer rubrum		15	No	FAC	Species Across All Strata:	6	(B)
5.							
6.					Percent of Dominant Species		
		135	= Total Cover		That Are OBL. FACW. or FAC:	83%	(A/B)
	50% of total cover	67.5	20% of total cover	27	- , - , -		
Sapling Stratum (Plot size	30 ft)		2070 01 10101 00701.		Prevalence Index Worksheet:		
1 None Observed					Total % Cover of	Multiply by	,.
2					OBL species 0	x 1 = 0	<u>. </u>
3					EACW species 40	x2 = 80	
3					FAC species 135	x3 = 105	
4					EACH opposion 55	x4 - 220	
5:					FACU species 35		
o						x = 0	(5)
			= Total Cover		Column Lotals: 230	(A) <u>705</u>	(B)
	50% of total cover:		20% of total cover:				
Shrub Stratum (Plot size:	<u> 30 ft. </u>)				Prevalence Index = B/A =	=	
1. <u>Ilex vomitoria</u>		30	Yes	FAC			
2. Ligustrum sinense		25	Yes	FAC	Hydrophytic Vegetation Indicate	ors:	
3. <u>Morella cerifera</u>		15	No	FAC	1 - Rapid Test for Hydrop	ohytic Vegetation	
4. Rubus trivialis		15	No	FACU	X 2 - Dominance Test is >5	50%	
5					3 - Prevalence Index is ≤	3.0 ¹	
6					Problematic Hydrophytic	Vegetation ¹ (Explain	ו)
		85	= Total Cover				
	50% of total cover:	42.5	20% of total cover:	17	¹ Indicators of hydric soil and wet	land hydrology must	
Herb Stratum (Plot size:	<u>30 ft.</u>)				be present, unless disturbed or pr	oblematic.	
1. Thelypteris kunthii		10	Yes	FACW	Definitions of Five Vegetation S	trata:	
2					Tree - Woody plants, excluding v	voody vines,	
3					approximately 20 ft (6m) or more	in height and 3 in.	
4					(7.6 cm) or larger in diameter at b	reast height (DBH).	
5.							
6.					Sapling - Woody plants, excludin	g woody vines,	
7.					approximately 20 ft (6 m) or more	in height and less	
8.					than 3 in. (7.6 cm) DBH.		
9.							
10.					Shrub - Woody plants, excluding	woody vines,	
11.					approximately 3 to 20 ft (1 to 6 m)	in height.	
	<u> </u>	10	= Total Cover				
	50% of total cover	5	20% of total cover:	2	Herb - All herbaceous (non-wood	y) plants, including	
Woody Vine Stratum (Plot size:	30 ft)		20,00,000,000,000,000		herbaceous vines, regardless of s	size, and woody	
1 None Observed	00_11)				plants, except woody vines, less t	han approximately	
2					3 ft (1 m) in height.	,	
2							
3					Woody vine - All woody vines, re	gardless of height.	
4						0 0	
5			- Total Cover		Hydrophytic		
	EON/ of total approx				Vegetation		
						Na	
					Present? Yes X	NO	
Demonstrative (if the second s		iana I I	<u>, </u>				
Remarks: (If observed, list m	orphological adaptat	ions below	·)-				
A positive indication of hydrop	hytic vegetation was	s observed	(>50% of dominant	species inde	exed as OBL, FACW, or FAC).		

cheb Color (molet) % Color (molet) Type Loc ² Texture Remarks cheb 10YR 7/4 95 10YR 68 5 C M Sitt		-	Redox Features			
0-16 10YR 7/4 95 10YR 8/8 5 C M Sitt ge: C-000cmtrahon_D-Depleton_RM=Reduced Matrix. MS=Masked Sand Grains. Tocentor: PL=Port Lining, M=Matrix. ge: C-000cmtrahon_D-Depleton_RM=Reduced Matrix. MS=Masked Sand Grains. Indicators for Problematic. Histopion (A2) Thin Dark Surface (S8) (LRR S, T, U) 2 on Matex (A9) (LRR P, S) Black Histo (A3) Loarny Mudxy Mineral (F1) (LRR Q) Reduced Vertic (F1) (Globalis MLR A 150A) Straffield Layers (A5) Depleted Matrix (F3) Performations Birght Loarny Sols (F20) Grain Bodier Rody (LRR P, T, U) Redo Cark Surface (F2) Matrix (F3) Grain Bodier Rody (A1) (LRR P, T, U) Redo Cark Surface (F2) Matrix (F3) Grain Bodier Rody (A1) (LRR P, T, U) Redo Cark Surface (F1) Matrix (F3) Graine Bodier Rody (A1) (LRR P, T, U) Redo Cark Surface (F1) Matrix (F3) Graine Bodier Rody (A1) (LRR P, T, U) Red Parent Matrix (F2) Matrix (F3) Graine Bodier Rody (A1) (LRR P, T, U) Red Parent Matrix (F2) Matrix (F3) (RR P, T, U) Simdy Rody (A1) (LRR P, T) Depleted Abar(R (F1) (MLRA 150)) Similar Mytric A10 (Prefered Parent Matrix (F3)) Similar Mytrix (F3) Simdy Rody (K5)	ches) Color (moist) %	Color (moist)	<u>%</u> Type'	Loc ²	Texture	Remarks
pre: C=Concentration. D=Depleton, RM=Reduced Matrix, MS=Marked Sand Crains. ² Location: PL=Port Lining, M=Matrix dric Solis Indikators: (Applicable to all LRRs, unless otherwise noted) Indicators of hydrolybit expetition and welane hydrology mast be present, Unless disturbed of problemate. Sandy Micky Mineral (S1) (LRR P, T, U) Sandy Micky Mineral (S1) (LRR P, S, U) Determine Solis (F12) (LRR C, P, T) Sandy Micky Mineral (S1) (LRR P, S, T, U) Matrix (Bators (Af16) (MLRA 150A) Dark Surface (S1) (LRR P, S, T, U) Matrix (Bators (C1) (MLRA 150A) Dark Surface (S1) (LRR P, S, T, U) Matrix (Bators (C1) (Dark V) Indicator of hydric soils was observed. ************************************	0-16 10YR 7/4 95	10YR 6/8	<u>5</u> <u>C</u>	M	Silt	
ge: C::Concentration, D::Depletion, RM:-Reduced Matrix, MS:-Masked Sand Grains. *Locaton: PL::Pore Lining, M:-Matrix. indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis.* indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis.* indicators: (Applicable to all LRRs, unless otherwise (BS) (LRR S, T, U) 2 on Muck (M10 (LRR O) jetted Matrix (F3) Learny Mucky Mineral (F1) (LRR O) Pedproted Matrix (F2) Oganic Booles (F0) (LRR P, T, U) Bepleted Matrix (F2) Pedproted Matrix (F2) Oganic Booles (F0) (LRR P, T, U) Bepleted Matrix (F3) Other (Englain in Romatics) Depleted Matrix (F3) Depleted Core (F1) (LRR A) Other (Englain in Romatics) Depleted Dev Dark Surface (F1) Umbrics Surface (F1) (LRR A) Other (Englain in Romatics) Depleted Dev Dark Surface (F1) (LRR A) Depleted Other (F1) (MIRA 151) Indicators of hydrophytic vegletation and wetland hydriology must be present; Gast Phraine Redox (A16) (URA 450A) Depleted Other (F10 (MIRA 450A) Indicators of hydrophytic vegletation and wetland hydriology must be present; Gast Phraine Redox (A16) (URA 450A) Depleted Other (F10 (MIRA 450A) Indicators of hydrophytic vegletation and wetland hydriology must be present;						
ges: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix. Indicators (Applicable to all LRRs, unless otherwise noted) Histics (IA) Histics (IA) Histics (IAS) Loarny Gleged Matrix (F2) Pedmont Picophale Solis (F10) (LRR 0, S) Red Varia (F10) (LRR 0, S) Back Histic (IAS) Loarny Gleged Matrix (F2) Pedmont Picophale Solis (F10) (LRR 0, S) Red Depressions (F6) Loarny Gleged Matrix (F2) Pedmont Picophale Solis (F10) (LRR 0, S) Red Ox Depressions (F6) Loarny Gleged Matrix (F2) Const Pinite Red (AG) (LRR 0, T) Red Ox Depressions (F6) Loarny Gleged Matrix (F2) Const Pinite Red (AG) (LRR 0, T) Depleted Boles (AG) (LRR 0, T) Depleted Boles (AG) (LRR 0, T) Depleted Chris (F11) (MLRA 151) Thick Dark Surface (F12) Lon Matrix (AG) (LRR 0, T) Depleted Chris (F11) (MLRA 151) Thick Dark Surface (A12) Coast Printe Red (A16) (MLR 1630) Unor Mangarese Masses (F12) (LRR 0, T, N) Sandy Rodox (A16) (LRR 0, S) Bedmont Picophalin Solis (F19) (MLRA 154) Sandy Rodox (A16) (LRR 0, S) Bedmont Picophalin Solis (F19) (MLRA 154), Sandy Rodox (S6) Bedmont Picophalin Solis (F19) (MLRA 154), Sandy Rodox (S1) Bedmont Picophalin Solis (F19) (MLRA 154), Sa						
ge: C=Concentration.D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. **Locator: PL=Port Lining, M=Matrix. dric Solis Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis ¹ : +Instace (A) Polyvalue Below Surface (Si) (LRR S, T, U) 2 on Musk (A0) (LRR 0) +Instace (A) Cammy Mucky Mineral (F) (LRR 0) Reduced Verdic (F) (URR 0, S)						
yer: C-Concentration, D-Depietable to all LRRs, unless of starks (Sand Grains, ¹ Location: PL-Pore Lining, M-Matrix, Indicators to Applicable to all LRRs, unless of starks (Sb) (LRR S, T, U) Histic Epipedion (A2)Thin Dark Surface (Sb) (LRR S, T, U)2 orn Mack (A0) (LRR O)						
pp: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location: PL=Pore Lining, M=Matrix. dric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR 0) Histic Epleden (A2) Thin Dark Surface (S8) (LRR 5, T, U) 2 cm Muck (A10) (LRR 0) Black Histic (A3) Learny Mucky Mineral (F1) (LRR 0) Reduced Vertic (F18) (outside MLRA 150A, 100A) Organic Bodies (A6) (LRR P, T, U) Reduce Vertic (F19) Const Presence (A8) (LRR P, T, U) Organic Bodies (A6) (LRR P, T, U) Reduce Vertic (F11) (MLRA 151) Const Praintee (A11) Depleted Dark Surface (F7) Muck Fresence (A2) Verti Shallow Dark Surface (T2) U motic Surface (A11) Depleted Dark Surface (F71) Werk Fresence (A2) Depleted Dark Surface (F11) Muck RP T, U Depleted Dark Surface (F10) Muck Y Mineral (A7) (LRR P, T, U) Depleted Oark Surface (F10) Verti Shallow Dark Surface (T12) Dorn Muck (A9) (LRR P, T) Much (F10) (LRR A 151) Verti Shallow Dark Surface (T2) Dist Surface (A12) Umbric Surface (F13) (LRR P, T, U) Second Vertic (F17) (MLRA 150) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 150) Notext Surface (S2) (LRR P, S, T, U) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
yee: C=Concentration, D=Depletion, RA#=Reduced Matrix, M=Masked Sand Grains. ¹ Location: PL=Pore Lining, M-Matrix, ¹ Histocol (A1) ¹ Histo Epipedon (A2) ¹ Histo (A3) ¹ Histo (A4) ¹ (HRP F, T) ¹ Histo (A4) ¹ (HRP F, T) ¹ Histo (A4) ¹ (HRP A,						
dric Solis Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis ¹ : Histics (A) Polyvalue Below Strates (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A) Loamy Muxity Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A, 150A) Grant Bodies (A) (LRR P, T, U) Depleted Matrix (F2) Peleteront Floodplain Solis (F20) Muck Presence (A8) (LRR P, T, U) Depleted Matrix (F2) Very Shallow Dark Surface (F12) U nm Muck (A) (LRR P, T, U) Depleted Matrix (F2) Very Shallow Dark Surface (F12) Dom Muck (A) (LRR P, T, U) Depleted Delox Depressions (F8) Very Shallow Dark Surface (F12) Dom Muck (A) (LRR P, T, U) Depleted Delox Depressions (F8) Very Shallow Dark Surface (F12) Dom Muck (A) (LRR P, T) Mati (F10) (LRR P, T, U) Depleted Delox Depressions (F8) Very Shallow Dark Surface (F12) Dom Muck (A) (Marca (51) Depleted Delox Depressions (F8) Very Shallow Dark Surface (F12) Very Shallow Dark Surface (F12) Sandy Mucky Mineral (S1) (LRR P, S) Depleted Outric (F11) (MLRA 150A) Better Dominer (F10) (MLRA 150A) Net estimate (S2) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150A) Better Dominer (F10) (MLRA 150A, 150A) Betterestimate (S7) (LRR P, S, T, U) <td>ype: C=Concentration, D=Depletion, RM=I</td> <td>Reduced Matrix, I</td> <td>MS=Masked Sand Grain</td> <td>s. ²Location: Pl</td> <td>_=Pore Lining, M=Matri</td> <td>х.</td>	ype: C=Concentration, D=Depletion, RM=I	Reduced Matrix, I	MS=Masked Sand Grain	s. ² Location: Pl	_=Pore Lining, M=Matri	х.
Histic Explose (A1) Polyatile Below Surface (S8) (LRR S, T, U) 1 cm Muck (A0) (LRR O) Histic Explose (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A0) (LRR O) Histic Explose (A2) Loamy Mucky Mineral (F1) (LR P, S) Reduced Vertic (F18) (outside MLRA 150A, 150B) Stratified Layer (A1) Depieted Matrix (F2) Pedmont Floopiani Soils (F19) (LRP F, S, T, U) Stratified Layer (A6) Depieted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Depressions (F5) Red Parent Material (TF2) Muck (A9) (LRR P, T) Redox Depressions (F5) Selected Onth (F10) (LRR U) Opeleted Bodies (C11) Depieted Coher (F11) (LRR A151) Torn-Marganese Masses (F12) (LRR 0, F1) Thick Kay (LRR C) Depieted Coher (F11) (LRR A150, 150B) ³ Indications of hydrophytic vegetation and wetland hydrology musb be present. unless disturbed or problematic. Sandy Redox (S5) Depieted Coher (F12) (LRR A150A, 150B) ³ Indications of hydrophytic vegetation and wetland hydrology musb be present. Unless (G10) Bandy Redox (S5) Depieted Coher (F12) (LRR A150A, 150B) ³ Indications of hydrophytic vegetation and wetland hydrology musb be present. Unless disturbed or problematic. Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Defieted Datrix (MLRA 150A, 1	dric Soils Indicators: (Applicable to all	LRRs, unless ot	herwise noted.)		Indicators for Probl	ematic Hydric Soils ³ :
Histic (A2) Thin Dark Surface (39) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR 0, S) Reduced Vertic (F18) (outside MLR 150A, 150B) Stratified Layers (A5) Depleted Matrix (F2) Phedmont Floodplain Solis (F19) (MLR A 150B, 150B) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) (MLRA 153B) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Paren Material (TF2) Muck Presence (A8) (LRR P, T) Med (F10) (LRR 10) Very Shallow Dark Surface (T7) 1 cm Muck (A0) (LRR P, T) Med (F10) (LRR 10) Very Shallow Dark Surface (T7) 1 cm Muck (A0) (LRR P, T) Med (F10) (LRR 10) Very Shallow Dark Surface (T7) 1 cm Muck (A0) (LRR P, T) Med (F10) (LRR 10) Very Shallow Dark Surface (T7) 1 cm Muck (A0) (LRR P, T) Med (F10) (LRR 150A) Very Shallow Dark Surface (T7) 2 cm Mucky Mineral (S1) (LRR 0, S) Shard Macky Mineral (S1) (LRR 0, S) Shard Macky Mineral (S1) (LRR 0, S) Sandy Mucky Mineral (S1) (LRR 0, S) Depleted Chrine (F13) (LRR 150A, 150B) Shard Macky Mineral (S1) (LRR 0, S) Sandy Gueye Mark (S6) Anomalous Bright Leamy Solis (F20) (MLRA 149A) Shard Macky Mineral (S1) (LRR 0, S) Sandy Redax (S5) Piedmont Flo	Histosol (A1)	Polyva	alue Below Surface (S8)	LRR S, T, U)	1 cm Muck (A9)	(LRR O)
Bisck Hists (A3)	Histic Epipedon (A2)	Thin D	ark Surface (S9) (LRR S	s, T, U)	2 cm Muck (A10)) (LRR S)
Hydrogen Sulide (A4) Leamy Gleyed Matrix (F2) Piedront Floodplain Solis (F19) (LRR P, S, S) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Leamy Solis (F20) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Mark Presence (A8) (LRR P, T) Depleted Chrin (F11) (MLRA 151) Depleted Chrin (F11) (MLRA 151) Depleted Blevo Dark Surface (A1) Thick Dark Surface (A12) Other (Explain in Remarks) Depleted Blevo Dark Surface (A12) Torn-Manganese Masses (F12) (LRR 0, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unor-Marganese Masses (F12) (LRR 0, P, T) Sandy Mucky Mineral (S1) (LRR 0, S) Delia Ochric (F13) (LRR P, T, U) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unset disturbed or problematic. Sandy Mucky Mineral (S1) (LRR 0, S) Delia Ochric (F13) (LRR 0, F, T), U ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unset disturbed or problematic. Sandy Gleyed Matrix (S6) Piedmont Floodplain Solis (F19) (MLRA 149A) Sinped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Marticle (F10) (MLRA 149A, 153C, 153D) Marticle Sill (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Marticle Sill (F20) (MLRA 149A, 153C, 153D) Marticle Sill (F20) (MLRA 149A, 153C, 153D)	Black Histic (A3)	Loamy	/ Mucky Mineral (F1) (LR	R 0)	Reduced Vertic	(F18) (outside MLRA 150A,
Strattled Layers (A5) Depteted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redx Dark Surface (F1) Red Parent Material (TF2) Muck (Menal (A7) (LRR P, T) Depteted Dark Surface (F1) Red Parent Material (TF2) J cm Muck (A9) (LRR P, T) Depteted Dark Surface (F1) Red Parent Material (TF2) Operated Bolow Dark Surface (A12) Depteted Dark Surface (F1) (LRR 0, P, T) Other (Explain in Remarks) Depteted Dark Surface (S13) (LRR 0, S) Depteted Orbit (F11) (MLRA 151) Inombic Surface (F12) (LRR 0, P, T) Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Deletan Ochric (F10) (MLRA 150, 150B) Performst Toologian Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X Stripted Matrix (S6) Depth (inches): No X Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X marks: opositive indication of hydric soils was observed.	Hvdrogen Sulfide (A4)	Loam	Gleved Matrix (F2)		Piedmont Flood	plain Soils (F19) (LRR P. S. 1
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) G on Mucky Mineral (X7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Dark Surface (F7) Red Parent Material (TF2) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F12) Very Shallow Dark Surface (T12) Depleted Below Dark Surface (A11) Depleted Ontin (F11) (MLRA 151) Other (Explain in Remarks) Sandy Mucky Mineral (S1) (LRR 0, S) Dealta Ochric (F17) (MLRA 150, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Sandy Gleyed Matrix (S6) Reduced Vertic (F18) (MLRA 150, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Pedmont Floodplain Soils (F19) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) strictive Layer (if observed): Type: Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) spositive indication of hydric soils was observed. .	Stratified Lavers (A5)	Deplet	ed Matrix (F3)		Anomalous Brig	ht Loamv Soils (F20)
S cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Depleted Dark Surface (F1) Muck Presence (A8) (LRR U) Depleted Derk Surface (F1) Depleted Below Dark Surface (A11) Depleted Ochric (F1) (MLRA 151) Thick Dark Surface (A12) Umbric Surface (F13) (LRR T, T, U) Depleted Ochric (F1) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Detemption (F10) (MLRA 150A, 150B) Derk Surface (S7) (LRR P, S, T, U) stricttive Layer (if observed): Type: Depth (inches): Depti value observed.	Organic Bodies (A6) (LRR P. T. U)	Redox	Dark Surface (F6)		(MLRA 153B)	, , ,
	5 cm Mucky Mineral (A7) (I RR P T U)	Deplet	ed Dark Surface (F7)		Red Parent Mat	erial (TF2)
International (A) IRR P, T) International (A) International (A) International (A) Depleted Below Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) International (A)	Muck Presence (A8) (I RR II)	Bedox	Depressions (F8)		Very Shallow D	ark Surface (TE12)
Commons (vs) (EVX) (1)	1 cm Muck (A9) (I BB B T)	Marl (I			Other (Explain i	n Pomarke)
	Depleted Polew Dark Surface (A11)		tod Ochric (E11) (MI BA	151)		T Remarks)
Inter Dark Sufface (r/2)	Depleted Below Dark Surface (A11)				³ Indicators of	hydrophytic vocatation and
Cost Praine Retox (A16) (mLRA 150)			anganese masses (F12)	(LRR 0, P, I)	wetland hvdro	blogy must be present.
Sandy Gleyed Matrix (S4) Enduced Vertic (F18) (MLRA 150A, 150B) Sandy Gleyed Matrix (S4) Pedmont Floodplain Soils (F19) (MLRA 149A) Striped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) park Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No marks: positive indication of hydric soils was observed.	Coast Prairie Redox (A16) (MIRA 150A			1, 0)	unless distur	bed or problematic.
Sandy Clevyed Matrix (S4) reduced Vertic (r18) (MLRA 190A, 150B) Sandy Redux (S5) Perdemone Floodplain Solis (F20) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) trype:			Jonric (F17) (MILRA 151			
Sangy Redox (ISS)Anomalous Bright Loamy Solis (F19) (MLRA 149A) Shripped Matrix (S6)Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) http://warks: poptifive indication of hydric soils was observed.	Sandy Gleyed Matrix (S4)		ed Vertic (F18) (MLRA 1	50A, 150B)		
Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) 	Sandy Redox (S5)	Piedm	ont Floodplain Soils (F19) (MLRA 149A)		
Dark Surface (S7) (LRR P, S, T, U) strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X marks: p positive indication of hydric soils was observed.	Stripped Matrix (S6)	Anoma	alous Bright Loamy Soils	(F20) (MLRA 14 9	A, 153C, 153D)	
positive indication of hydric soils was observed.	Depth (inches):			Hydric	Soil Present? Yes	No X
positive indication of hydric soils was observed.						
positive indication of hydric soils was observed.	emarks:					
	emarks:					
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	emarks:	erved.				
	emarks:	erved.				

Project/Site:		Dec	luincy l	ndustrial Park		Parish:		Calcasie	u	_Sampling Date: Auç		ugust 2	3, 2018
Applicant/Owner:	SWLA Economic Development Allia						State:Louis			_ Sample Point:		SL	.9
Investigator(s):	B.McNabb and T. Jones					Section, Township, Range:				Sec. 23	3 - T7S -R11\	N	
Landform (hillslope,	illslope, terrace, etc.): Plain					Local relie	ef (conc	ave, convex,	none):	None	Slope (%):		0-5
Subregion (LRR or I	or MLRA): LRR T					Lat: _	30.	43355	Long:	-93.46681	Datum:		NAD83
Soil Map Unit Name	:			Glenmora sil	t loam, 1 to 3 pe	ercent slopes			NWI Classification: None				
Are climatic / hydrole	ologic conditions on the site typical for this time of year?				time of year?	(Yes / No	o)	Yes	(if no, explain in Remarks.)				
Are Vegetation	No	_,Soil_	No	or Hydrology,	Nosigni	ficantly dist	urbed?	Are "Norma	al Circumsta	nces" presen	t? Yes	x	No
Are Vegetation	No Soil No or Hydrology No signal No Soil No or Hydrology No na					rally probler	natic?	(lf needed, e	xplain any an	swers in Rem	narks.)	

r						1							
Hydrophytic Vegetation Pres	sent? Yes	÷			<u><</u>	1. 11. 0							
Hydric Soll Present?	res 2 Vor	·	r		<u> </u>	is the Sampl	ea Area	Vaa		No	v		
	1 165	·		<u> </u>	<u> </u>	within a wet		Tes_		NO			
Remarks:													
T I 1 1 1 1 1 1 1 1 1 1													
I his point was determine	ed not to be wit	thin a we	tland due	to the la	ck of all t	hree wetland cr	teria.						
HYDROLOGY													
Wetland hydrology Ind	icators:							Secondary	Indicator	s (minimum	of two required)	_	
Primary Indicators (minir	num of one is r	required;	check all	that app	oly)			Surfa	ce Soil C	Cracks (B6)			
Surface Water (A	1)			Aquatic I	Fauna (B	13)		Spars	sely Vege	etated Conca	ave Surface (B8)		
High Water Table	(A2)		!	Marl Dep	posits (B1	5) (LRR U)		Drain	age Patt	erns (B10)			
Saturation (A3)			!	Hydroge	n Sulfide	Odor (C1)		Moss	Trim Lin	ies (B16)			
Water Marks (B1)			0	Oxidized	l Rhizosp	heres on Living	Roots(C3)	Dry-S	Season V	Vater Table (C2)		
Sediment Deposit	s (B2)			Presenc	e of Redu	uced Iron (C4)		X Crayf	fish Burro	ows (C8)			
Drift Deposits (B3)		'	Recent I	ron Redu	ction in Tilled S	oils (C6)	Satur	ation Vis	ible on Aeria	I Imagery (C9)		
Algal Mat or Crust	. (B4)			Thin Mu	ck Surfac	e (C7)		Geomorphic Position (D2)					
Iron Deposits (B5)		(53)	(Other (E	xplain in l	Remarks)		Shallo	ow Aquit	ard (D3)			
Inundation Visible	on Aerial Imag	jery (B7)						FAC-	Neutral	lest (D5)	DT IN		
	aves (B9)							Spna	gnum mo	DSS (D8) (LR	R I, U)		
Field Observations:													
Surface Water Present?	Yes	No	x	Depth	(inches):	N/A							
Water Table Present?	Yes	– <u> </u>	x	Depth	(inches):	>20							
Saturation Present?	Yes	 No	x	Depth	(inches):	>20	Wetland Hyd	drology Pres	ent?	Yes	No X		
(includes capillary fringe)												-	
Describe Recorded Data	a (stream gaug	e, monito	oring well,	aerial p	hotos, pre	evious inspectio	ns), if available	ə:					
Remarks:													
Nie werstative implications of				1									
No positive indication of	wetiand hydroi	logy was	observed										

EGETATION (Five Stra	ta) - Use scient	ific nam	es of plants.		Sampling Point:	SL9
		Absolute	Dominant	Indicator	Dominance Test worksheet:	
ree Stratum (Plot size:	30 ft)	% cover	Species?	Status	Number of Dominant Species	
None Observed	<u> </u>				That Are OBL, FACW, or FAC:	1 (A
			. <u> </u>		Total Number of Dominant	
					Species Across All Strata:	(B
	······				Percent of Dominant Species	220/ / /
	50% of total approx		= Total Cover		That Are OBL, FACW, of FAC:	33% (A
Sanling Stratum (Plot size:	30 ft)				Prevalence Index Worksheet:	
None Observed					Total % Cover of:	Multiply by:
					OBL species 0 x	(1 = 0
					FACW species 50 x	: 2 = 100
					FAC species 20 x	3 = 60
					FACU species 110 x	4 = 440
					UPL species 0 x	5 = 0
			= Total Cover		Column Totals: 180 (A	A) <u>600</u>
	50% of total cover:		20% of total cover:			
hrub Stratum (Plot size:	<u> 30 ft. </u>)				Prevalence Index = B/A =	3.33
None Observed						
			·		Hydrophytic Vegetation Indicators:	· · · · ·
					1 - Rapid Test for Hydrophyti 2 Dominance Test is >50%	c vegetation
					2 - Dominance Test is > 50%	1
					Problematic Hydrophytic Vec	retation ¹ (Explain)
			= Total Cover			
	50% of total cover		20% of total cover		¹ Indicators of hydric soil and wetland	ł hydrology must
lerb Stratum (Plot size:	30 ft.)				be present, unless disturbed or proble	ematic.
Eleocharis tenuis		50	Yes	FACW	Definitions of Five Vegetation Strat	a:
Paspalum notatum		40	Yes	FACU	Tree - Woody plants, excluding wood	ły vines,
Digitaria ciliaris		40	Yes	FACU	approximately 20 ft (6m) or more in he	eight and 3 in.
Dichanthelium sphaerocarpo	n	20	No	FACU	(7.6 cm) or larger in diameter at breas	st height (DBH).
Asclepias longifolia		20	No	FAC		
Diodia teres		10	No	FACU	Sapling - woody plants, excluding wo	ody vines,
					than 3 in (7.6 cm) DBH	eight and less
			·			
					Shrub - Woody plants, excluding woo	odv vines.
			·		approximately 3 to 20 ft (1 to 6 m) in h	ieight.
		180	= Total Cover			5
	50% of total cover:	90	20% of total cover:	36	Herb - All herbaceous (non-woody) pl	lants, including
/oodv Vine Stratum (Plot size:	30 ft.)				herbaceous vines, regardless of size,	and woody
None Observed	,				plants, except woody vines, less than	approximately
					3 ft (1 m) in height.	
			. <u> </u>		Woody vine - All woody vines, regard	lless of height.
			= Total Cover		Hydrophytic	
	50% of total cover:		20% of total cover:		Vegetation	×
					Present? Yes No) <u>X</u>

epth	Matrix			Redox F	eatures			
ches)	Color (moist)	<u>%</u> <u>C</u>	olor (moist)		Type'	Loc ²	Texture	Remarks
0-16	10YR 7/4	_90	10YR 6/8	10	C	M	Silt	
						2		•
ype: C=Col	Indicators: (Appli	cable to all I R	Re unless of	herwise no	ted)	Location: Pl	L=Pore Lining, M=Mat	llx. Nomatic Hydric Soils ³ :
Histosol			Polwa	alue Below S	Surface (S8) (I	RRSTII)	1 cm Muck (AG	(IRR O)
Histic En	(A1)		Thin F	ande Delow o Dark Surface		T IN	2 cm Muck (A	
HISUC EP	stic (A2)			Mucky Min	oral (E1) (I DE	1, 0)	2 Chi Muck (A	(10) (LRC 3) (E18) (outside MI DA 150A)
	suc(A3)			y Nucky Mill	erar (F1) (LKF	(0)	Reduced Veru	dalain Soile (E10) (I PP P S 1
Stratified			Loang	y Gleyeu Matrix (E	1111X (FZ) 22)			apialiti 30115 (F 19) (LKK F, 3, 1
	Bodios (AS)	о т II)	Depie	(Dork Surfo	-3) ee (E6)			ght Loanty Solis (F20)
Organic	boules (A0) (LKK P			ted Dark Suila			(WILKA 155B)	starial (TEQ)
5 CIT Mu Muck Dr		N N N N N N N N N N N	Depie	Doproceior				aleriar (TF2)
)	Redux		IS (FO)			in Remarke)
	ICK (A9) (LKK P, T)	(0.4.4)	Nan (F 10) (LKK (tod Ochric (l		E4)	Other (Explain	in Remarks)
	Below Dark Surfac	ce (A11)		tea Ocnric (I	FTT) (IVILKA 1)	51) (LDD O D T)	³ Indiantoro d	f hydrophytic vocatation and
_ Thick Da	ark Surface (A12)		Iron-iv	anganese N		(LRR 0, P, 1)	wetland hvd	rology must be present.
_ Coast Pr	rairie Redox (A16) (MILKA 150A)		C Surface (F	(MI DA 454)	, U)	unless distu	rbed or problematic.
_ Sandy M	lucky Mineral (ST) (LRR 0, 5)	Deita		(IVILKA 131)	0A 450D)		
_Sandy G	leyed Matrix (S4)		Reduc	eu vertic (F		(MI DA 440A)		
_ Sandy R	edox (S5)				ain Solis (F19)	(MLRA 149A)		
Stripped	Matrix (S6)		Anom	alous Bright	Loamy Soils (F20) (MLRA 149	9A, 153C, 153D)	
Dark Sur	rface (S7) (LRR P, s ayer (if observed):	S, T, U)						
Dark Sur estrictive L Type: Depth (inc	rface (S7) (LRR P, s ayer (if observed): 	S, T, U)				Hydric	: Soil Present? Yes	No X
Dark Sur estrictive L Type: Depth (inc	rface (S7) (LRR P, ; ayer (if observed): 	S, T, U)				Hydric	: Soil Present? Yes	No X
Dark Sur estrictive L Type: Depth (inc	rface (S7) (LRR P, ; ayer (if observed): 	s, t, u)				Hydric	: Soil Present? Yes	No X
Dark Sur estrictive L Type: Depth (inc emarks:	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	No <u>X</u>
Dark Sur estrictive L Type: Depth (inc emarks:	fface (S7) (LRR P, ; ayer (if observed): 	S, T, U)	ed.			Hydric	: Soil Present? Yes	No X
Dark Sur estrictive L Type: Depth (inc emarks:	fface (S7) (LRR P, ; ayer (if observed): 	S, T, U)	ed.			Hydric	Soil Present? Yes	No X
Dark Sur estrictive L Type: Depth (inc emarks:	fface (S7) (LRR P, ; ayer (if observed): 	S, T, U)	ed.			Hydric	Soil Present? Yes	No X
Dark Sur estrictive L Type: Depth (inc emarks:	rface (S7) (LRR P, ; ayer (if observed): 	S, T, U)	ed.			Hydric	: Soil Present? Yes	No <u>X</u>
Dark Sur estrictive L Type: Depth (inc emarks:	rface (S7) (LRR P, : ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	Soil Present? Yes	No <u>X</u>
Dark Sur estrictive L Type: Depth (inc emarks:	fface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	No <u>X</u>
Dark Sur estrictive L Type: Depth (inc emarks:	fface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	No <u>X</u>
Dark Sur estrictive L Type: Depth (inc emarks:	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	No <u>X</u>
Dark Sur estrictive L Type: Depth (inc emarks:	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	No X
Dark Sur estrictive L Type: Depth (inc emarks:	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	No X
Dark Sur estrictive L Type: Depth (inc emarks:	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	No <u>X</u>
Dark Sur estrictive L Depth (inc emarks:	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	s, r, u)	ed.			Hydric	: Soil Present? Yes	NoX
Dark Sur estrictive L Type: Depth (inc emarks:	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	NoX
Dark Sur	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	S, T, U)	ed.			Hydric	: Soil Present? Yes	NoX
Dark Sur	rface (S7) (LRR P, ayer (if observed): hes): dication of hydric so	s, r, u)	ed.			Hydric	: Soil Present? Yes	NoX
Dark Sur	rface (S7) (LRR P, ayer (if observed): hes): dication of hydric so	s, r, u)	ed.			Hydric	: Soil Present? Yes	NoX
Dark Sur	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	s, r, u)	ed.			Hydric	: Soil Present? Yes	NoX
Dark Sur	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	s, r, u)	ed.			Hydric	Soil Present? Yes	NoX
Dark Sur	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	s, r, u)	ed.			Hydric	Soil Present? Yes	NoX
Dark Sur	rface (S7) (LRR P, ; ayer (if observed): hes): dication of hydric so	bils was observ	ed.			Hydric	: Soil Present? Yes	NoX

Project/Site:	Dequincy Industrial Park					Parish:		Calcasie	eu	_Sampling Date: Au		August 23, 2018	
Applicant/Owner:	SWLA Economic Development Allia						State: Louisian				oint:	SL10	
Investigator(s):	B.McNabb and T. Jones					Section, Township, Range:				Sec. 23 - T7S -R11W			
Landform (hillslope,	illslope, terrace, etc.): Plain					Local relie	ef (conc	ave, convex	, none):	None	Slope (%):		0-5
Subregion (LRR or I	R or MLRA):					Lat:	30.4	43457	Long:	-93.46690	Datum:		NAD83
Soil Map Unit Name	:			Glenmora si	lt loam, 1 to 3 pe	ercent slopes NWI Cla			WI Classification: None			•	
Are climatic / hydrol	ologic conditions on the site typical for this time of year?					(Yes / No)	Yes	es (if no, explain in Remarks.)				
Are Vegetation	No ,Soil No ,or Hydrology No sigr				ficantly distu	urbed?	Are "Normal Circumstances" present? Ye			t? Yes	Х	No	
Are Vegetation	No Soil No or Hydrology No nat					rally problen	lematic? (If needed, ex			needed, explain any answers in Remark		narks.)	

Hydrophytic Vegetation Present?	Yes	<u> </u>	No						
Hydric Soll Present?	Yes	x		<u>×</u>	is the Sample	ed Area	Vos	No	Y
Weitand Hydrology Present?	res_	<u> </u>	INO		within a weti		Tes		<u> </u>
Remarks:									
This point was determined not	to be within	a wotland	due te the l	ock of bydr	io soile				
This point was determined not		a wellanu (ack of fiyur	ic solis.				
HYDROLOGY Wetland bydrology Indianta									
	rs:					-	Secondary Indicat	ors (minimum	of two required)
Primary Indicators (minimum o	of one is req	uired; checł	all that ap	ply)	-		Surface Soi	Cracks (B6)	
Surface Water (A1)			_ Aquatio	Fauna (B1	3)	-	Sparsely Ve	getated Conca	ave Surface (B8)
High Water Table (A2)			_ Mari De	eposits (B1) (LRR U)	-	Drainage Pa	atterns (B10)	
Saturation (A3)			_ Hydrog	en Sulfide (Jdor (C1)	-	Moss Trim L	.ines (B16)	200
Water Marks (B1)		X		a Rnizospr	eres on Living I	Roots(C3)	Dry-Season	water Table ((C2)
Sediment Deposits (B2)		—	_ Presen	ce of Redu	ced Iron (C4)	-	X Crayfish Bu	rows (C8)	(00)
Algel Mat or Crust (B4)			_ Recent	uck Surface			Saturation v	Position (D2)	in imagery (C9)
			_ Other (Evolain in F	(C7) Pemarks)	-	Geofficiphic	itard (D3)	
Inundation Visible on A	erial Imagery	(B7)	_ 01101 ((cindino)	-	EAC-Neutra	l Test (D5)	
Water-Stained Leaves	(R9)	(87)				-	Sphagnum	noss (D8) (LR	R T. U)
	(20)					-	opnagnam		, •,
Field Observations:									
Surface Water Present? Yes	Ν	No X	Dept	n (inches):	N/A				
Water Table Present? Yes	N	No X	 Deptl	h (inches):	>20				
Saturation Present? Yes	N	No X	 Deptl	h (inches):	>20	Wetland Hydr	ology Present?	Yes X	No
(includes capillary fringe)			_						
Describe Recorded Data (stre	am gauge, r	nonitoring v	vell, aerial	photos, pre	vious inspectior	ns), if available:			
Remarks:									
A positive indication of watlan	d hydrology	was obsory	od (at loas	t ono prima	ny indicator)				
	a nyarology		eu (al leas	t one prima	ry malcator).				

|--|

	Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot size: <u>30 ft.</u>)	% cover	Species?	Status	Number of Dominant Species
None Observed				That Are OBL, FACW, or FAC: 1 (A)
				Total Number of Dominant
				Species Across All Strata: 3 (B)
				(-)
·				Percent of Dominant Species
		- Total Covor		That Ara OBL EACW or EAC: 229((A/P)
	·	_ 20% of total cover:		Prevalence Index Worksheet:
Saping Stratum (Plot size. <u>30 it.</u>)				
. None Observed				I otal % Cover of: Multiply by:
				OBL species <u>30</u> x 1 = <u>30</u>
		- <u> </u>		FACW species x 2 =0
				FAC species 20 x 3 = 60
				FACU species 110 x 4 = 440
				UPL species 0 x 5 = 0
		= Total Cover		Column Totals: (A)630
50% of total cove	r:	20% of total cover:		
<u>Shrub Stratum</u> (Plot size: 30 ft.)				Prevalence Index = B/A = 3.00
None Observed				
· <u></u>				Hydrophytic Vegetation Indicators:
···				1 - Ranid Test for Hydrophytic Vegetation
		·		2 Dominance Test is >50%
				\mathbf{V} 3. Provalence Index is $\leq 3.0^{1}$
)		- <u> </u>		A 5 - Flevalence index is ≥ 5.0
)				
		= Total Cover		
50% of total cover	r:	20% of total cover:		Indicators of hydric soil and wetland hydrology must
Herb Stratum (Plot size: 30 ft.)				be present, unless disturbed or problematic.
. Eleocharis tenuis	50	Yes	FACW	Definitions of Five Vegetation Strata:
. Paspalum notatum	40	Yes	FACU	Tree - Woody plants, excluding woody vines,
. Digitaria ciliaris	40	Yes	FACU	approximately 20 ft (6m) or more in height and 3 in.
. Rhynchospora caduca	30	No	OBL	(7.6 cm) or larger in diameter at breast height (DBH).
5. Dichanthelium sphaerocarpon	20	No	FACU	
Asclepias longifolia	20	No	FAC	Sapling - Woody plants, excluding woody vines,
Diodia teres	10	 No	FACU	approximately 20 ft (6 m) or more in height and less
				than 3 in. (7.6 cm) DBH.
))				
				Shrub - Woody plants, excluding woody vines
·		- <u> </u>		approximately 3 to 20 ft (1 to 6 m) in height
·		- T-t-LO		
	210	= Iotal Cover	40	Herb - All berbaceous (non-woody) plants, including
50% of total cover	r: <u>105</u>	20% of total cover:	42	herbasseus vines, regerdless of size, and weady
Noody Vine Stratum (Plot size: <u>30</u> ft.)				herbaceous vines, regardiess of size, and woody
. None Observed				plants, except woody vines, less than approximately
				3 ft (1 m) in height.
B				
				Woody vine - All woody vines, regardless of height.
j				
		= Total Cover		Hydrophytic
50% of total cover	r:	- 20% of total cover		Vegetation
				Present? Yes X No
Demorker /if aboom and list as a state of the	tiona bal	<u>۸</u>		
Remarks: (if observed, list morphological adapta	ations below	V).		

ches)	Color (moist)	%	Color (moist)	%	Type ¹		Texture	Remarks
0-2	10YR 5/2	98	10YR 4/6	2	<u> </u>	 PI	Silt	
<u></u> 2-16	10YR 5/4	90	10YR 4/8	10	<u> </u>	 	Silt	
2-10			1011(4/0					
vpe: C=Cc	oncentration. D=Dep	letion. RM=	Reduced Matrix.	MS=Maske	d Sand Grains.	² Location: PL	=Pore Lining, M=Ma	atrix.
dric Soils	Indicators: (Appli	cable to all	LRRs, unless ot	herwise no	oted.)		Indicators for Pro	blematic Hydric Soils ³ :
Histosol	l (A1)		Polyva	lue Below	Surface (S8) (L	.RR S, T, U)	1 cm Muck (A	(LRR O)
Histic E	pipedon (A2)		Thin D	ark Surface	e (S9) (LRR S,	T, U)	2 cm Muck (A	(10) (LRR S)
Black H	istic (A3)		Loamy	/ Mucky Mir	neral (F1) (LRF	: O)	Reduced Ver	tic (F18) (outside MLRA 150A,
Hydroge	en Sulfide (A4)		Loamy	Gleyed Ma	atrix (F2)		Piedmont Flo	odplain Soils (F19) (LRR P, S , ⁻
Stratifie	d Layers (A5)		Deplet	ed Matrix (I	F3)		Anomalous B	right Loamy Soils (F20)
Organic	Bodies (A6) (LRR I	P, T, U)	Redox	Dark Surfa	ace (F6)		(MLRA 153B)
5 cm Mu	ucky Mineral (A7) (L	.RR P, T, U)	Deplet	ted Dark Su	urface (F7)		Red Parent M	laterial (TF2)
Muck Pi	resence (A8) (LRR	U)	Redox	Depressio	ns (F8)		Very Shallow	Dark Surface (TF12)
1 cm Mı	uck (A9) (LRR P, T)		Marl (F	=10) (LRR	U)		Other (Explai	n in Remarks)
_ Deplete	d Below Dark Surfa	ce (A11)	Deplet	ed Ochric ((F11) (MLRA 1	51)		
Thick Da	ark Surface (A12)		Iron-M	anganese I	Masses (F12)	(LRR O, P, T)	³ Indicators	of hydrophytic vegetation and
_ Coast P	Prairie Redox (A16) (MLRA 150	A)Umbri	c Surface (I	F13) (LRR P, T	, U)	unless dist	urbed or problematic.
Sandy N	Mucky Mineral (S1)	(LRR O, S)	Delta	Ochric (F17	') (MLRA 151)			
_ Sandy C	Gleyed Matrix (S4)		Reduc	ed Vertic (F	=18) (MLRA 15	0A, 150B)		
				ant Flaadal				
Sandy F	Redox (S5)		Piedm		ain Soils (F19)	(IVILRA 149A)		
Sandy F Strippec Dark Su	Redox (S5) d Matrix (S6) ırface (S7) (LRR P,	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19) t Loamy Soils ((MLRA 149A) F20) (MLRA 149	A, 153C, 153D)	
Sandy F Stripped Dark Su estrictive L	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed):	S, T, U)	Piedm Anoma	alous Bright	aın Soils (F19) t Loamy Soils ((MLRA 149A) F20) (MLRA 149	A, 153C, 153D)	
Sandy F Stripped Dark Su estrictive L Type:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed)	S, T, U)	Piedm Anoma	alous Bright	ain Soils (F19) t Loamy Soils ((MLRA 149A) F20) (MLRA 149	A, 153C, 153D)	s No Y
Sandy F Stripped Dark Su estrictive L Type: Depth (ind	Redox (S5) d Matrix (S6) urface (S7) (LRR P, 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19) t Loamy Soils ((MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	ain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLKA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su setrictive L Type: Depth (inc smarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su Strictive L Type: Depth (ind positive in	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s NoX
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No <u>X</u>
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): ches):	S, T, U) : oils was obs	Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): ches):	S, T, U)	Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): ches): ndication of hydric so	S, T, U)	Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	sNoX
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su setrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su setrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	sNoX
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	sNoX
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	sNoX
Sandy F Strippec Dark Su estrictive L Type: Depth (inc emarks: o positive ir	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, _ayer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	sNoX
Sandy F Strippec Dark Su estrictive L Type: Depth (inc emarks: o positive ir	Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Piedm Anoma	alous Bright	iain Soils (F19)	(MLRA 149A) F20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Ye	s NoX

Project/Site:		Dec	uincy I	ndustrial Park		Parish:		Calcasie	u	Sampling D	ate: Au	ugust 23	8, 2018
Applicant/Owner:	SWLA Economic Development Allian					ce	Sta	te:	Louisiana Sample Point		oint:	nt:SL1	
Investigator(s):	B.McNabb and T. Jones					Section, T	Section, Township, Range: Sec. 23				3 - T7S -R11W		
Landform (hillslope,	ope, terrace, etc.): Depression					Local relie	ef (conc	ave, convex,	none):	Concave	Slope (%):		0-5
Subregion (LRR or I	or MLRA): LRR T					Lat:	30.4	43574	Long:	-93.46585	Datum:		NAD83
Soil Map Unit Name	:			Caddo-Messer	complex, 0 to	o 1 percent slo	percent slopes			NWI Classification:			
Are climatic / hydrole	ogic cond	litions o	n the si	te typical for this	time of year?	? (Yes / No)	Yes	(if no,	explain in Rem	arks.)		
Are Vegetation	No	,Soil	No	,or Hydrology	No sig	nificantly dist	urbed?	Are "Norma	al Circums	tances" presen	t? Yes	x I	No
Are Vegetation	No	,Soil	No	,or Hydrology	No na	turally probler	ally problematic? (If needed,			needed, explain any answers in Remarks.)			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X Yes X	No No No	Is the Samp within a Wet	led Area tland?	Yes X	No
Remarks:						
This point was determined to b	oe within a wetland du	e to the presence of a	II 3 wetland crite	ria.		
HYDROLOGY						
Wetland hydrology Indicator	rs:				Secondary Indicators	(minimum of two required)
Primary Indicators (minimum c	of one is required; che	ck all that apply)			Surface Soil Cra	acks (B6)
Surface Water (A1)	_	Aquatic Fauna (E	313)		Sparsely Veget	ated Concave Surface (B8)
High Water Table (A2)	—	Marl Deposits (B	15) (LRR U)		Drainage Patter	rns (B10)
Saturation (A3)	_	Hydrogen Sulfide	e Odor (C1)	$D_{2} = t_{2}(O_{2})$	Moss Trim Line	s (B16)
Water Marks (B1)	_	Oxidized Rhizosp Dreacenee of Red	neres on Living	R0015(C3)	Dry-Season wa	ater Table ($C2$)
Drift Deposits (B3)		Presence of Red	uction in Tilled S	oils (C6)	Saturation Visib	vs (CO) Ne on Aerial Imagery (C9)
Algal Mat or Crust (B4)	—	Thin Muck Surfac	ce (C7)		Geomorphic Po	sition (D2)
Iron Deposits (B5)	_	Other (Explain in	Remarks)		Shallow Aquitar	rd (D3)
Inundation Visible on Ae	erial Imagery (B7)				X FAC-Neutral Te	est (D5)
Water-Stained Leaves (B9)				Sphagnum mos	ss (D8) (LRR T, U)
				1		
Field Observations:						
Surface Water Present? Yes	No <u>X</u>	Depth (inches)	: <u>N/A</u>			
Water Table Present? Yes		Depth (inches)	: <u>>20</u> ⇒20	Wotland Llvr	drology Procent? V	an X No
(includes capillary fringe)		Deptri (incries)		wettantu nyt	arology Present?	
Describe Recorded Data (stre	am gauge, monitoring	well, aerial photos, pr	evious inspectio	ns), if available	9:	
Remarks:						
A positive indication of wetland	d hydrology was obser	rved (at least one prim	ary indicator).	~)		
				<i>.</i>).		

:	SL11
_	

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:	<u>30 ft.</u>)	% cover	Species?	Status	Number of Dominant Species		
1. None Observed					That Are OBL, FACW, or FAC:	3	(A)
2							. ,
3					Total Number of Dominant		
3	<u> </u>		·			2	(P)
4	<u> </u>				Species Across All Strata.	<u>J</u>	(D)
5			· · · · · · · · · · · · · · · · · · ·				
6			· ·		Percent of Dominant Species		
			= Total Cover		That Are OBL, FACW, or FAC:	100%	(A/B)
	50% of total cover:		20% of total cover:				
Sapling Stratum (Plot size:	<u>30 ft.</u>)				Prevalence Index Worksheet:		
1. None Observed					Total % Cover of:	Multiply by:	
2					OBL species 25	x 1 = 25	
3.					FACW species 100	x 2 = 200	
4.					FAC species 0	x 3 = 0	
5.					FACU species 10	x 4 = 40	
6					LIPL species 0	x5= 0	
··			- Total Cover		Column Totals: 135	· (A) 265	(B)
	50% of total action				133	. (~)	(^{D)}
Shrub Stratum (Dist size)					Drovolance Index = D/A	- 4.00	
	<u> </u>				Prevalence Index = B/A =	- 1.96	— I
1. None Observed			·				
2					Hydrophytic Vegetation Indicate	ors:	
3					1 - Rapid Test for Hydrop	ohytic Vegetation	
4					X 2 - Dominance Test is >5	0%	
5					X_3 - Prevalence Index is ≤	3.0 ¹	
6.					Problematic Hydrophytic	Vegetation ¹ (Explain)	
			= Total Cover				
	50% of total cover:		20% of total cover:		¹ Indicators of hydric soil and wet	land hvdrologv must	
Herb Stratum (Plot size:	30 ft.)	-			be present, unless disturbed or pr	oblematic.	
1 Rhynchospora colorata	/	40	Yes	FACW	Definitions of Five Vegetation S	trata:	
2 Rhevia mariana		30	Ves	FACW	Tree - Woody plants excluding w	voody vines	
			<u> </u>		approvimetaly 20 ft (6m) or more	in beight and 2 in	
S. Eleochans tenuis			fes				
4. Fuirena breviseta		25	<u>No</u>	OBL	(7.6 cm) or larger in diameter at bi	reast height (DBH).	
5. <u>Digitaria ciliaris</u>		10	No	FACU	Contine Maschuster contraint		
6						J woody vines,	
7					approximately 20 π (6 m) or more	in height and less	
8					than 3 in. (7.6 cm) DBH.		
9							
10					Shrub - Woody plants, excluding	woody vines,	
11.					approximately 3 to 20 ft (1 to 6 m)	in height.	
		135	= Total Cover				
	50% of total cover:	67.5	20% of total cover:	27	Herb - All herbaceous (non-wood	y) plants, including	
Woody Vine Stratum (Plot size:	30 ft)				herbaceous vines, regardless of s	ize, <u>and</u> woody	
1 None Observed	/				plants, except woody vines, less t	han approximately	
2					3 ft (1 m) in height.		
2					, , J		
5	<u> </u>		·		Woody vine - All woody vines rea	gardless of height	
4	<u> </u>		·	<u> </u>		garaioco or noight	
5					11. d		
			= Iotal Cover		Hydrophytic		
	50% of total cover:		20% of total cover:		Vegetation		
					Present? Yes X	No	
Remarks: (if observed, list me	orphological adaptat	ions below	<i>ı</i>).				
A positive indication of hydron	bytic vocatation wa	s obsorver	1/250% of dominant	spacios inda	r = 0		
A positive indication of hydrop	inylic vegetation was	S ODSEIVEC		species inde	as OBL, I AGW, OI I AC).		
	hadin and the			- < 0.00\			
A positive indication of hydrop	mylic vegetation was	sopserved	revalence index i	s ≤ 3.00).			
							1

Depth	Matrix			Redox F	eatures			
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/2	85	10YR 5/8	10	C	M	Silt	
			10YR 4/6	5	C	PL		
Type: C=C	oncentration, D=Dep	oletion, RM	=Reduced Matrix, N	IS=Maske	d Sand Grains	. ² Location: Pl	L=Pore Lining, M=Matri	х.
Hydric Soils	Indicators: (Appli	icable to a	ll LRRs, unless oth	nerwise no	oted.)		Indicators for Probl	ematic Hydric Soils ³ :
Histoso	l (A1)		Polyva	lue Below	Surface (S8) (LRR S, T, U)	1 cm Muck (A9)	(LRR O)
Histic E	pipedon (A2)		Thin D	ark Surface	e (S9) (LRR S	, T, U)	2 cm Muck (A10) (LRR S)
Black H	istic (A3)		Loamy	Mucky Mir	neral (F1) (LR I	R 0)	Reduced Vertic	(F18) (outside MLRA 150A,B
Hydrog	en Sulfide (A4)		Loamy	Gleyed Ma	atrix (F2)		Piedmont Flood	plain Soils (F19) (LRR P, S, T)
Stratifie	d Layers (A5)		X Deplete	ed Matrix (I	=3)		Anomalous Brig	ht Loamy Soils (F20)
Organio	Bodies (A6) (LRR	P, T, U)	Redox	Dark Surfa	ace (F6)		(MLRA 153B)	
5 cm M	ucky Mineral (A7) (L	.RR P, T, U) Deplete	ed Dark Su	Irface (F7)		Red Parent Mat	erial (TF2)
Muck P	resence (A8) (LRR	U)	Redox	Depressio	ns (F8)		Very Shallow Da	ark Surface (TF12)
 1 cm M	uck (A9) (LRR P, T)		Marl (F	10) (LRR	U)		Other (Explain in	n Remarks)
 Deplete	d Below Dark Surfa	ce (A11)	Deplete	ed Ochric (F11) (MLRA 1	51)	、、	,
· Thick D	ark Surface (A12)	()	Iron-Ma	anganese l	Masses (F12)	(LRR O, P, T)	³ Indicators of	hydrophytic vegetation and
Coast F	Prairie Redox (A16)	(MLRA 150	A) Umbrid	Surface (F	=13) (LRR P, ⁻	τ, U)	wetland hydro	ology must be present,
 Sandy I	Mucky Mineral (S1)	(LRR O, S)	Delta C) Chric (F17) (MLRA 151)		unless disturb	bed or problematic.
 Sandy (Gleved Matrix (S4)	,	Reduce	ed Vertic (F	-18) (MLRA 1	50A, 150B)		
 Sandv I	Redox (S5)		 Piedmo	ont Floodpl	ain Soils (F19) (MLRA 149A)		
 Strippe	d Matrix (S6)		Anoma	Ious Briaht	Loamv Soils	(F20) (MLRA 149	A. 153C, 153D)	
Dark Su	urface (S7) (LRR P,	S, T, U)		5	,		,,	
Restrictive	Layer (if observed)	:						
Type:								
Depth (in	ches):					Hydric	Soil Present? Yes	X No
I (/							
Remarks:						I		
A positive in	dication of hydric so	il was obse	rved.					
	,							

Project/Site:		Dec	uincy lı	ndustrial Park		Parish:		Calcasie	u	Sampling D	ate: Au	ugust 23	3, 2018
Applicant/Owner:		S	WLA E	conomic Develo	pment Alliance)	Sta	te:	Louisiana	a Sample Po	oint:	SL1	2
Investigator(s):	В.	.McNab	b	and	T. Jones	Section, T	ownshi	p, Range:		Sec. 23	3 - T7S -R11\	N	
Landform (hillslope,	terrace, e	etc.):		Depression	า	Local relie	f (conc	ave, convex,	none):	Concave	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30.4	43663	Long:	-93.46809	Datum:		NAD83
Soil Map Unit Name	:			Glenmora sil	t loam, 1 to 3 p	ercent slope	s		NWI C	Classification:		None	
Are climatic / hydrole	ogic cond	litions o	n the si	te typical for this	time of year?	(Yes / No)	Yes	(if no,	explain in Rem	arks.)		
Are Vegetation	No	,Soil	No	or Hydrology,	No sign	ificantly distu	irbed?	Are "Norma	al Circums	tances" presen	t? Yes	x	No
Are Vegetation	No	,Soil	No	,or Hydrology	No natu	rally problem	natic?	(lf needed,	explain any an	swers in Rem	narks.)	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: This point was determined to be	Yes X Yes X Yes X	No No No e to the presence of a	Is the Sampled within a Wetla all 3 wetland criteria	d Area ind? a.	Yes X No
HYDROLOGY Wetland hydrology Indicators: Primary Indicators (minimum of of Surface Water (A1)	al Imagery (B7)	k all that apply) Aquatic Fauna (Marl Deposits (E Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain in	B13) 315) (LRR U) le Odor (C1) spheres on Living R duced Iron (C4) duction in Tilled Soil ace (C7) n Remarks)	Roots(C3) Is (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) X Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) X Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream	No X No X No X n gauge, monitoring	Depth (inches Depth (inches Depth (inches well, aerial photos, p): <u>N/A</u>): <u>>20</u> .): <u>>20</u> vrevious inspections	Wetland Hydr	rology Present? Yes <u>X</u> No
Remarks: A positive indication of wetland h A positive indication of wetland h	ıydrology was observ	ved (at least one prir ved (at least two sec	mary indicator).		

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:	30 ft)	% cover	Species?	Status	Number of Dominant Species	
1. Quercus niara	<u> </u>	50	Yes	FAC	That Are OBL. FACW. or FAC: 6	(A)
2. Celtis laevigata	· · · ·	45	Yes	FACW		()
3. Salix nigra	· · ·	30	<u> </u>	OBL	Total Number of Dominant	
4. Acer rubrum		30	No	FAC	Species Across All Strata: 6	(B)
5. Triadica sebifera		20	No	FAC	·	()
6.					Percent of Dominant Species	
		175	= Total Cover		That Are OBL, FACW, or FAC: 100%	(A/B)
	50% of total cover:	87.5	20% of total cover:	35		
Sapling Stratum (Plot size:	<u>30 ft.</u>)				Prevalence Index Worksheet:	
1. Quercus nigra		10	Yes	FAC	Total % Cover of: Multiply by:	
2					OBL species X 1 = 30	
3					FACW species x 2 = 280	
4					FAC species 180 x 3 = 540	
5					FACU species 0 x 4 = 0	
6			. <u> </u>		UPL species x 5 =0	
		10	= Total Cover		Column Totals: 350 (A) 850	(B)
	50% of total cover:	5	20% of total cover:	2		
Shrub Stratum (Plot size:	<u>30 ft.</u>)				Prevalence Index = B/A = 2.43	
1. <i>Morella cerifera</i>		70	Yes	FAC		
2					Hydrophytic Vegetation Indicators:	
3					1 - Rapid Test for Hydrophytic Vegetation	
4					X 2 - Dominance Test is >50%	
5					X 3 - Prevalence Index is $\leq 3.0^{1}$	
6	·	-			Problematic Hydrophytic Vegetation ¹ (Explain))
		70	= Total Cover			
	50% of total cover:	35	20% of total cover:	14	¹ Indicators of hydric soil and wetland hydrology must	
Herb Stratum (Plot size:	<u>30 ft.</u>)				be present, unless disturbed or problematic.	
1. Cyperus virens	·	60	Yes	FACW	Definitions of Five Vegetation Strata:	
2. Rhynchospora colorata	· ·	35	Yes	FACW	I ree - woody plants, excluding woody vines,	
3	· .		·		approximately 20 ft (6m) or more in height and 3 in.	
4	· .		·		(7.6 cm) or larger in diameter at breast height (DBH).	
5	·				Sapling - Woody plants, excluding woody vines	
6	·				approximately 20 ft (6 m) or more in height and less	
/					than 3 in. (7.6 cm) DBH.	
8						
9	· ·		· · · · · · · · · · · · · · · · · · ·		Shrub - Woody plants, excluding woody vines.	
10	·		·		approximately 3 to 20 ft (1 to 6 m) in height.	
····	· .	95	= Total Cover			
	50% of total cover:	47.5	20% of total cover:	10	Herb - All herbaceous (non-woody) plants, including	
Woody Vine Stratum (Plot size:	30 ft				herbaceous vines, regardless of size, and woody	
1 None Observed	00_11)				plants, except woody vines, less than approximately	
2.	· · ·				3 ft (1 m) in height.	
3.	· · ·					
4	· · ·	-			Woody vine - All woody vines, regardless of height.	
5.						
			= Total Cover		Hydrophytic	
	50% of total cover:		20% of total cover:		Vegetation	
					Present? Yes X No	
Remarks: (if observed, list mo	orphological adaptati	ions below	<i>ı</i>).			
A positive indication of hydrop	hytic vegetation was	observed	l (>50% of dominant	species inde	exed as OBL, FACW, or FAC).	
A positive indication of hydrop	hytic vegetation was	observed	l (Prevalence Index i	is ≤ 3.00).		

Depth	Matrix			Redox F	eatures			
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 5/2	95	10YR 5/8	_5_	C	M&PL	Silt	
							·	
							·	
							·	
Type: C=C	oncentration, D=Dep	pletion, RM	=Reduced Matrix, M	S=Masked	Sand Grains	. ² Location: Pl	 _=Pore Lining, M=Matr	ix.
Hydric Soil	s Indicators: (Appl	icable to a	ll LRRs, unless oth	erwise no	ted.)		Indicators for Prob	lematic Hydric Soils ³ :
Histoso	ol (A1)		Polyval	ue Below S	Surface (S8) (I	LRR S, T, U)	1 cm Muck (A9) (LRR O)
Histic E	Epipedon (A2)		Thin Da	rk Surface	e (S9) (LRR S ,	T, U)	2 cm Muck (A1	0) (LRR S)
Black H	Histic (A3)		Loamy	Mucky Mir	eral (F1) (LRI	R O)	Reduced Vertic	(F18) (outside MLRA 150A,B
Hydrog	en Sulfide (A4)		Loamy	Gleyed Ma	ıtrix (F2)		Piedmont Floor	lplain Soils (F19) (LRR P, S, T)
Stratifie	ed Layers (A5)		X Deplete	d Matrix (F	-3)		Anomalous Brig	ght Loamy Soils (F20)
Organi	c Bodies (A6) (LRR	P, T, U)	Redox I	Dark Surfa	ce (F6)		(MLRA 153B)	
5 cm N	lucky Mineral (A7) (I	.RR P, T, U	l)Deplete	d Dark Su	rface (F7)		Red Parent Ma	terial (TF2)
Muck F	Presence (A8) (LRR	U)	Redox I	Depressio	ns (F8)		Very Shallow D	ark Surface (TF12)
1 cm N	luck (A9) (LRR P, T)		Marl (F	10) (LRR l	J)		Other (Explain	in Remarks)
Deplete	ed Below Dark Surfa	ce (A11)	Deplete	d Ochric (F11) (MLRA 1	51)	<u>,</u>	
Thick E	Dark Surface (A12)		Iron-Ma	nganese N	Masses (F12)	(LRR O, P, T)	³ Indicators o	f hydrophytic vegetation and
Coast I	Prairie Redox (A16)	(MLRA 150	A)Umbric	Surface (F	13) (LRR P, 1	r, U)	unless distur	bed or problematic
Sandy	Mucky Mineral (S1)	(LRR O, S)	Delta O	chric (F17) (MLRA 151)			
Sandy	Gleyed Matrix (S4)		Reduce	d Vertic (F	18) (MLRA 1	50A, 150B)		
Sandy	Redox (S5)		Piedmo	nt Floodpl	ain Soils (F19)	(MLRA 149A)		
Strippe	d Matrix (S6)		Anomal	ous Bright	Loamy Soils	(F20) (MLRA 14 9	A, 153C, 153D)	
Dark S	urface (S7) (LRR P,	S, T, U)						
Restrictive	Layer (if observed)	:						
Type:								
Depth (in	iches):					Hydric	Soil Present? Yes	X No
Remarks:								
A positive in	dication of hydric so	II was obse	rved.					

Project/Site:		Dec	luincy l	ndustrial Park		Parish:		Calcasie	u	_Sampling D	ate: Au	ugust 2	23, 2018
Applicant/Owner:		5	WLA E	conomic Develo	pment Alliance		Sta	te:	Louisiana	_ Sample Po	oint:	SL	13
Investigator(s):	В	.McNab	b	and	T. Jones	Section, T	ownshi	p, Range:		Sec. 2	3 - T7S -R11\	N	
Landform (hillslope,	terrace,	etc.):		Plain		Local relie	ef (conc	ave, convex,	none):	None	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30.4	43589	Long:	-93.46701	Datum:		NAD83
Soil Map Unit Name	:			Glenmora sil	t loam, 1 to 3 pe	ercent slope	s		NWI Cla	assification:		None	
Are climatic / hydrole	ogic conc	ditions o	n the si	te typical for this	time of year?	(Yes / No)	Yes	(if no, e	xplain in Rem	arks.)		
Are Vegetation	No	_,Soil_	No	or Hydrology,	Nosigni	ficantly dist	urbed?	Are "Norma	al Circumsta	nces" presen	t? Yes	x	No
Are Vegetation	No	,Soil	No	,or Hydrology	No natur	rally probler	natic?	(lf needed, e	xplain any an	swers in Rem	narks.)	

Lludranhutia Vagatatian Dra	aant? Va			Na	v					
Hydrophylic Vegetation Pre	sent? re Vo				<u> </u>	le the Samp	lad Araa			
Wetland Hydrology Present	? Ye	~~ c;		No –	<u>x</u>	within a Wet	leu Alea land?	Yes	No	x
Wedding Hydrology Freedon						intinin a trot				
Remarks: This point was determin HYDROLOGY Wetland hydrology Ind	ed not to be w	rithin a we	etland du	ue to th	e lack of all th	aree wetland cr	iteria.	Secondary Indica	tors (minimum	
Primary Indicators (mini	mum of one is	required	l; check	all that	apply)			Surface So	il Cracks (B6)	
Surface Water (A	.1)			Aqua	atic Fauna (B1	3)		Sparsely Ve	egetated Conca	ave Surface (B8)
High Water Table	e (A2)			Marl	Deposits (B1	5) (LRR U)		Drainage P	atterns (B10)	
Saturation (A3)				Hydr	ogen Sulfide (Odor (C1)		Moss Trim	Lines (B16)	
Water Marks (B1)			Oxid	ized Rhizosph	eres on Living	Roots(C3)	Dry-Seasor	n Water Table ((C2)
Sediment Deposi	ts (B2)			Pres	ence of Redu	ced Iron (C4)		Crayfish Bu	rrows (C8)	
Drift Deposits (B3	3)			Rece	ent Iron Reduc	tion in Tilled S	oils (C6)	Saturation	/isible on Aeria	al Imagery (C9)
Algal Mat or Crus	t (B4)			Thin	Muck Surface	e (C7)		Geomorphi	c Position (D2)	
Iron Deposits (B5)			. Othe	r (Explain in F	Remarks)		Shallow Aq	uitard (D3)	
Inundation Visible	e on Aerial Ima	.gery (B7))					FAC-Neutra	al Test (D5)	
Water-Stained Le	aves (B9)							Sphagnum	moss (D8) (LR	(R Τ, U)
Field Observations:										
Surface Water Present?	Yes	No	х	De	oth (inches):	N/A				
Water Table Present?	Yes		x	. De	pth (inches):	>20				
Saturation Present?	Yes		X	. De	pth (inches):	>20	Wetland Hvo	drology Present?	Yes	No X
(includes capillary fringe)				-	,			0,		
Describe Recorded Dat	a (stream gau	ge, monit	toring we	ell, aeria	al photos, pre	vious inspectio	ns), if available	e:		
Remarks:										
No positive indication o	f wetland hydro	ology was	s observ	ed.						

		Absolute	Dominant	Indicator	Dominance rest worksheet.		
Tree Stratum (Plot size:	<u>30 ft.</u>)	% cover	Species?	Status	Number of Dominant Species		
1. <i>Pinus palustris</i>		70	Yes	FACU	That Are OBL, FACW, or FAC:	3	(A)
3					Total Number of Dominant		
4					Species Across All Strata	6	(B)
5.							. (2)
6					Percent of Dominant Species		
	······································	70	= Total Cover		That Are OBL_EACW_or EAC	50%	(A/R)
	50% of total cover:	35	20% of total cover:	14			(,,,,,)
Sanling Stratum (Plot size:	30 ft)				Prevalence Index Worksheet:		
<u>Saping Stratum</u> (Flot size.	<u> </u>				Total % Cover of:	Multiply by	
							<u>. </u>
2						_ x 2 =	
3					FACW species 0	_ X2=	
4					FAC species 115	$x^{3} = 345$	
5					FACU species 130	_ x 4 = <u>520</u>	
6					UPL species 0	_ x5=0	
			= Iotal Cover		Column Lotals: 245	(A) 865	(B)
	50% of total cover:		20% of total cover:		_		
Shrub Stratum (Plot size:	<u> 30 ft. </u>)				Prevalence Index = B/A	= 3.53	
1. Morella cerifera		50	Yes	FAC			
2. Ligustrum sinense		35	Yes	FAC	Hydrophytic Vegetation Indicat	ors:	
3. Rubus trivialis		20	No	FACU	1 - Rapid Test for Hydro	phytic Vegetation	
4					2 - Dominance Test is >	50%	
5					3 - Prevalence Index is	≤ 3.0 ¹	
6.					Problematic Hydrophytic	vegetation ¹ (Explair	ı)
		105	= Total Cover				
	50% of total cover:	52.5	20% of total cover:	21	¹ Indicators of hydric soil and we	tland hydrology must	
Herb Stratum (Plot size:	30 ft.)				be present, unless disturbed or p	roblematic.	
1. Rubus trivialis	/	20	Yes	FACU	Definitions of Five Vegetation	Strata:	
2 Liatris spicata		20	Yes	FAC	Tree - Woody plants, excluding	woodv vines.	
3 Schizachyrium scoparium		20	Yes	FACU	approximately 20 ft (6m) or more	in height and 3 in	
A Toxicodendron radicans		10	<u>No</u>	FAC	(7.6 cm) or larger in diameter at h	preast beight (DBH)	
4. Toxicodenaron radicans		10				freast neight (DDH).	
5					Sapling - Woody plants, excludir	na woody vines	
o					approximately 20 ft (6 m) or more	in height and less	
7					than 3 in (7.6 cm) DBH		
8							
9					Chrub Weedy plants evoluting	weedwainee	
10					Shrub - Woody plants, excluding	woody vines,	
11					approximately 3 to 20 π (1 to 6 m) in neight.	
		70	= Total Cover				
	50% of total cover:	35	20% of total cover:	14	Herb - All herbaceous (non-wood	dy) plants, including	
Woody Vine Stratum (Plot size:	<u> </u>				herbaceous vines, regardless of	size, <u>and</u> woody	
1. None Observed					plants, except woody vines, less	than approximately	
2.					3 ft (1 m) in height.		
3.							
4					Woody vine - All woody vines, re	egardless of height.	
5						-	
J			= Total Cover		Hydrophytic		
	50% of total aguar				Vogotation		
			20% OF IOLAI COVER:			No. Y	
					Present? Yes	NO X	
Remarks: (if observed, list m	orphological adaptati	ons below).				
No positive indication of hydro	phytic vegetation wa	as observe	d (≥50% of dominar	t species ind	exed as FAC- or drier)		
No positive indication of hydro	ophytic vegetation wa	as observe	d (≥50% of dominar	nt species ind	exed as FAC- or drier).		

cheb Color (molest) % Color (molest) % Type' Loc' Texture Remarks cheb UVR 50 95 C M Silt	epth	Matrix			Redox Fe	atures			
0-16 10/YK 50 95 10/YK 50 5 C M Sitt ype: C-16 M Sitt	iches)	Color (moist)	<u>%</u> Col	or (moist)		Туре'		Texture	Remarks
yrge: C::Concentration, D::Depieton, RM::Reduced Matrix, MS::Masked San Grains. ¹ Location: PL::Pore Lining, M::Matrix: /*disc Solis Indicators: (Applicable to all LRRs, unlose Starbards a robot Indicators: Problematic Hybric Solis': /*disc Epipedon (A2) Thin Dark Surface (15) (LRR S, T, U) Indicators Problematic Hybric Solis': /*grantford Larger (AS) Loamy Glayed Matrix (F2) Problematic Hybric Solis (F20) Organic Exclusions (A4) (LRR P, T, U) Depleted Dark Surface (F6) Son Mucky Mineral (A7) (LRR P, T, U) Operate Bations (A6) (LRR P, T, U) Redix Oark Surface (F1) Redix (F1) Do motive Mutaria (A7) (LRR P, T, U) Depleted Dark Surface (F7) Redix (F1) Decided Bation Dark Surface (A1) Problematic (F1) Problematic (F1) Decided Bation Dark Surface (A1) Depleted Dark Surface (F1) Do thin C Surface (F12) Diverse (F12) Samdy Glayed Matrix (B4) Redix Clark (F11) (MLRA 151) Desided Surface (F12) Diverse (F12) Diverse (F12) Samdy Glayed Matrix (B4) Redix Clark (F13) (MLRA 150A) Diverse (F10) (MLRA 151) Produced Veric (F14) (MLRA 150A) Indicators of Pydrophybic vogatilation and vetation diverse (F13) (MLRA 150A) Bandy Kisyed Matrix (B4) Redix Clark (F12) (MLRA 150A) Anormalous Bright Loamy Solis (F20) (MLRA 150A)	0-16	10YR 5/3	95	10YR 5/8	5	C	M	Silt	
ype: C=Concentration, D=Depietion, RM=Reduced Matrix, MS=Masked Sand Grains. *									
ype: C=Concentration, D=Depieton, RM=Reduced Matrix, MS=Masked Sand Grains. ¹ Cocation: PL=Pore Lining, M=Matrix, model of the state of the st									
yre: C=Concentration, D=Depletion, RM=Reduced Matrix, MS-Miasked Sand Grains. *Location: PL=Pore Lining, M=Matrix. yrdic Solis Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis': Histics (A3) Polytwike Below Surface (S8) (LRR S, T, U) 2 cm Muck (A0) (LRR 9) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR 0) Reduced Vertic (F18) (outside MLRA 150A) Stratified Layers (A6) Depleted Matrix (F2) Peledmont Floodplan Solis (F20) Organie Bodies (A6) (LRR P, T, U) Belok Histic (A3) Cataba Surface (F7) Muck Forescree (A6) (LRR P, T) Belok Depressions (F8) Verty Shaltow Dark Surface (F7) Muck Forescree (A6) (LRR P, T) Depleted Debric (F1) (MLRA 150) Other (F10) (MLRA 150) Depleted Matrix (S1) Dopleted Chric (F11) (MLRA 150) Other (F12) (MLRA 150) Sandy Mucky Mineral (S1) (LRR P, S, U) Beduced Vertic (F13) (MLRA 150) Thick Dark Surface (F20) (MLRA 149A), 153C, 153D) Sandy Mucky Mineral (S1) (LRR P, S, U) Beduced Vertic (F13) (MLRA 150A) Thick Dark Surface (F20) (MLRA 149A), 153C, 153D) Sandy Mucky Mineral (S1) (LRR P, S, U) Beduced Vertic (F13) (MLRA 149A), 153C, 153D) Thick Dark Surface (F20) (MLRA 149A, 153C, 153D) Bandy Rodox (S5) Deleter Histing Forescrea									
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grans, ************************************									
ype: C=Concentration, D=Deptetion, RM=Reduced Matrix, MS=Masked Sand Grains. ¹ Locautor: PL=Pore Lining, M=Matrix. ydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ . Histos (A1) Pelpore Lining, M=Matrix. Indicators for Problematic Hydric Soils ¹ . Histos (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Mack (A0) (LRR S) Black Histic (A3) Loarny Macky Mineral (F1) (LRR O) Reduced Vertic (F18) (Outside MLRA 150A ydrag Solide (A4) Loarny Macky Mineral (F2) Peledmont Roodplain Soils (F19) (LRR P, S) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loarny Soils (F20) Organic Macky Mineral (A1) (LRR P, T, U) Matrix (F10) (LRR V) Very Shallow Dark Surface (T12) I com Muck (A9) (LRR P, T, U) Depleted Abark Surface (F13) (LRR P, T, U) Matrix (F10) (LRR P, T, U) Depleted Below Dark Surface (A11) Depleted Ortic (F11) (MLRA 151) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Macky Mineral (S1) (MRR A 150A) Bod burchy Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150P) Sandy Rocky Matrix (S6) Anomalous Bright Loarny Soils (F29) (MLRA 149A, 153C, 153D) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
pipe. C-Collecting and produce index ind-masked and cans. Leader, PC-Viol Linkg, in-match. Price Solis Indexors: (Applicable to all LRRs, unless otherwise noted.) International index index of the produce index i			on BM-Bodu	and Matrix		Sand Crains	² Leastion: DI	-Doro Liping M-Mat	
And South Muchaels, Lypin Leader to an Exclose of Marger (SB) (LRR S, T, U) Indicators of Polyhalue Bellow Surface (SB) (LRR S, T, U) Hildiscol (A2) Thin Dark Surface (SB) (LRR S, T, U) 2 cm Muck (A0) (LRR R) Black Hildis (A3) Loamy Mucky Mineral (F1) (LRR Q) Reduced Vertic (F16) (LRR P, S, S) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Solis (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F7) Red Part Material (TF2) Muck Y Mineral (A7) (LRR P, T) Depleted Dark Surface (F7) Red Part Material (TF2) Muck Y Mineral (A7) (LRR P, T) Depleted Dark Surface (F1) Red Part Material (TF2) Oppleted Dark Surface (A12) Depleted Dark Surface (F1) Ward (F10) (LRR U) Depleted Oak (A10) Depleted Oak (A10) Defleted Oak (A10) Sandry Mucky Mineral (A1) (LRR P, T) Depleted Oak (A10) Mineral (A10) (LRR P, T) Coast Praine Redox (A16) Immediate (A10) Immediate (A10) Depleted Oak (A10) Sandry Macky Mineral (B1) (RR P, S) Endochnei (F11) (MRR A 150) Immediate (A10) Mineral (A10) (A10) Sandry Redox (S5) Pieled Oak (A10) Depleted Oak (A10) (LRA 150A) Immediate (A10) Immediate (A10) Sandry Redox (S5)	ype: C-Co vdric Soils	Indicators: (Applicat			horwise not	Sanu Grains.	Location. PL	Indicators for Brol	alomatic Hydric Soils ³ :
Instact Epipedon (A2) Thin Dark Surface (S9) (LRR 8) 2 om Muck (A10) (LRR 8) Black Husic (A3) Loamy Mucky Mineral (F1) (LRR 0) Reduced Vertic (F18) (outside MLR 4 1504 Arrow (Sey Matrix) Depleted Matrix (F2) Anomalous Bright Loamy Sols (F20) Organic Bodies (Monal (A7) (LRR 9, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) Muck Presence (A8) (LRR 9, T, U) Redox Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR 9, T, U) Redox Dark Surface (F1) Red Parent Material (TF2) Muck Presence (A8) (LRR 9, T) Much (F10) (LRR 10) Other (Explain in Remarks) Depleted Dorbic (F11) (MLRA 151) Bondwale (F13) (LRR 0, F, T, U) Think Surface (F13) (LRR 150, 1508) Sandy Glaved Matrix (S4) Depleted Ochic (F11) (MLRA 150, 1508) Piedmont Floodplain Solis (F20) (MLRA 150, 1508) Sandy Redox (S5) Piedmont Floodplain Solis (F20) (MLRA 150, 1508) Piedmont Floodplain Solis (F20) (MLRA 150, 1508) Sandy Redox (S5) Piedmont Floodplain Solis (F20) (MLRA 150, 1508) Piedmont Floodplain Solis (F20) (MLRA 149A, 133C, 153D) Dark Surface (S7) Reduced Veric (F18) (MLRA 150A, 1508) Piedmont Floodplain Solis (F20) (MLRA 149A, 133C, 153D) Dark Surface (S7) Reduced Veric (F18) (MLRA 150A, 1508) Piedmont Floodplain Sol	Histosol	(Δ1)		Polwa	lue Below S	urface (S8) (I	RRSTU)	1 cm Muck (A	a) (I RR O)
Black Hist (AS) Loamy Mucky Mineral (F1) (LRR 0) Reduced Vertic (F18) (outside MLRA 150A Hydrogen Suttide (A4) Loamy Mucky Mineral (F1) (LRR 7, U) Reduced Vertic (F18) (Outside MLRA 150A Strattide Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Solis (F20) Grant Godies (A6) (LRR P, T, U) Redox Depressions (F8) Mick Presence (A8) (LRR 0) Muck Presence (A8) (LRR 10) Redox Depressions (F8) Very Shallow Dark Surface (T71) Depleted Dark Surface (A11) Depleted Dark Surface (F12) (LRR 0, P, T, U) Offer (Explain in Remarks) Depleted Dark Surface (A12) Cocast Praine Redox (A16) (MIRA 150A) Deleted Obtric (F13) (MRA 150A, 150B) Sandry Gleyed Matrix (S6) Perteomore (F13) (MRA 150A, 150B) Select Obtric (F13) (MRA 150A, 150B) Sandry Gleyed Matrix (S6) Perteomore (F13) (MRA 150A, 150B) Select Obtric (F13) (MRA 150A, 150B) Dark Surface (S7) (LRR P, S, T, U) Select Obtric (F13) (MIRA 150A, 150B) Select Obtric (F13) (MIRA 150A, 150B) Dark Surface (S7) (LRR P, S, T, U) Select Obtric (F13) (MIRA 150A, 150B) Select Obtric (F13) (MIRA 150A, 150B) Dark Surface (S7) (LRR P, S, T, U) Select Obtric (F13) (MIRA 150A, 150B) Select Obtric (F13) (MIRA 150A, 150B) Select Matrix (S6) Pertemore Theodies Matrix (S6) Pertem	Histic Fr	ninedon (A2)		Thin D	ark Surface	(S9) (LRR S.	T. U)	2 cm Muck (A	10) (LRR S)
Hydrogen Sulfide (A4) Loamy Gieyed Matrix (F2) Piedmont Floodplain Solis (F13) (LRR P, S, S, Straffed C Jayres (A5) Organic Bodie (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Solis (F20) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Jond Vick Vickace (A11) Depleted Ochric (F11) (MLRA 151) Depleted Ochric (F11) (MLRA 150) Depleted Below Dark Surface (A11) Depleted Ochric (F17) (MLRA 151) ³ Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleved Matrix (S4) Red Medica Victor (F17) (MLRA 150) ³ Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleved Matrix (S4) Red Medica Victor (F17) (MLRA 150A, 150B) ³ Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleved Matrix (S4) Red Medica Victor (F17) (MLRA 150A, 150B) Sandy Gleved Matrix (S4) Red Medica Victor (F10) (MLRA 150A, 150B) Dark Surface (S7) (LRR P, S, T, U) Depleted Gleve Matrix (S4) Red Medica Victor (F10) (MLRA 150A, 150B) Sandy Gleved Matrix (S4) Depleted Informatice (S7) (LRR P, S, T, U) Matrix (S4)	Black Hi	istic (A3)		Loamy	/ Mucky Min	eral (F1) (LRR	0)	2 en mook (//	c (F18) (outside MLRA 150A.
Stratilied Layers (A5) Depleded Matrix (F3) Anomalous Bright Loamy Solis (F20) Organic Bodies (A6) (LRR P, T, U) Redx Dark Surface (F6) Red Parent Material (TF2) Muck (A9) (LRR P, T) Redx Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F10) Other (Explain in Remarks) Depleted Body Dark Surface (A11) Depleted Cortic (F11) (MLRA 151) Trick Layer (F13) (LRR P, T, U) Coast Praine Redux (A16) (MLRA 150A) Umbris Surface (F13) (LRR P, T, U) Imbris Surface (F13) (LRR P, T, U) Sandy Redux (S4) Reduced Vertic (F13) (MLRA 150A, 150B) Pertent Material (S1) (LRR P, S, T, U) Sandy Redux (S5) Perdemont Floophian Solis (F20) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X X stripped Matrix (F3) Predmont Floophian Solis (F10) (MLRA 149A, 153C, 153D) Dephetered Parence	Hvdroge	en Sulfide (A4)		Loamy	Gleved Ma	trix (F2)	0)	Piedmont Floo	dolain Soils (F19) (LRR P. S.
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 om Mucky Minerai (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A6) (LRR P, T) Depleted Dark Surface (F7) Red Parent Material (TF2) 1 om Muck (A9) (LRR P, T) Depleted Dark C(F1) (MLRA 151) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Inon-Manganee Masses (F12) (LRR O, P, T) Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S6) Delata Ochric (F17) (MLRA 150) Feduced Vertic (F18) (MLRA 150A), 150B) Sandy Redox (S5) Delata Ochric (F17) (MLRA 150A, 150B) Pledmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Learny Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X Stripped Matrix (S6) Pledmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X Stripped Matrix (S6) Pledmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X	Stratified	d Lavers (A5)		Deplet	ed Matrix (F	3)		Anomalous Br	ight Loamy Soils (F20)
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redx Depressions (F8) Ucry Shalow Dark Surface (T12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (LRR P, T, U) Trick Namganese Mass (F12) (LR R, O, P, T) Coest Praife Redx (A16) (MIRA 150A) Depleted Ochric (F17) (MLRA 151) Trink Redx (A16) (MIRA 150A) Sandy Kleved Matrix (S4) Reduced Vertic (F13) (MLRA 150A, 150B) Sandry Redx (S5) Sandry Gleyed Matrix (S6) Pedmont Floodplain Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Loamy Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No Supplet Matrix (S6)	Organic	Bodies (A6) (LRR P. T	. U)	Redox	Dark Surfa	ce (F6)		(MLRA 153B)	.g ()
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depletoch Chr (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and winder (CF10) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Below Dark Surface (F13) (LRR A 150) Indicators of hydrophytic vegetation and winder (CF10) (MLRA 150, 150B) Sandy Mucky Mineral (S1) (LRR O, S) Reduced Veric (F18) (MLRA 150, 150B) Indicators of hydrophytic vegetation and winder (CF10) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Reduced Veric (F18) (MLRA 150A, 150B) Indicators of hydrophytic vegetation and winder (CF18) (MLRA 149A) Sandy Redox (S5) Piedmont Floodplain Solis (F19) (MLRA 149A) Anomalous Bright Loamy Solis (F29) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Mari (F10) (MLRA 150) Hydric Soil Present? Yes No X speltive indication of hydric soils was observed. Piedmont Floodplain Solis (F29) (MLRA 149A, 153C, 153D)	5 cm Mu	uckv Mineral (A7) (LRR	P. T. U)	Deplet	ed Dark Sur	face (F7)		Red Parent Ma	aterial (TF2)
I cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Belot Chric (F12) (LRR O, P, T) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Bedot Chric (F17) (MLRA 150) Piedmont Floodplain Soils (F19) (MLRA 149A) Sandy Gleyed Matrix (S4) Bedot Chric (F17) (MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (r37) (LRR P, S, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Marl (Fritoric F13) (MLRA 150A, 150A, 153D) Stripted Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Marc (Fritoric F13) (MLRA 150A, 150A, 153D) Stripted Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Marc (F10) (MLRA 150A, 150A, 150A, 150B) Stripted Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 150C, 153D) Marc (F10) (MLRA 150A, 150A, 150B, 150B) Stripted Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 150C, 153D) Marc (F10) (MLRA 150A, 150A, 150B, 150B) Stripted Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 150C, 150B) Marc (F10) (MLRA 150A, 150B, 15	Muck Pr	resence (A8) (LRR U)	, , -,	Redox	Depression	is (F8)		Verv Shallow I	Dark Surface (TF12)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Redox (A16) (MLRA 150A) Sandy Redox (S15) Sandy Cleyed Matrix (S4) Sandy Redox (S5) Detta Ochric (F17) (MLRA 151) Piertmont Floodplain Soils (F12) (MLRA 149A) Anomalous Bright Learny Soils (F20) (MLRA 149A) Anomalous Bright Learny Soils (F20) (MLRA 149A) through the sent of	 1 cm Mu	uck (A9) (LRR P, T)		Marl (F	- 10) (LRR U	l)		Other (Explain	in Remarks)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, F, T) Iron-Manganese Masses (F12) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Iron-Manganese Masses (F12) (LRR P, T, U) Iron-Manganese Masses (F12) (LRR P, T, U) Iron-Manganese Masses (F12) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Iron-Manganese Masses (F12) (MLRA 149A) Iron-Manganese Masses (F12) (MLRA 149A) Sandy Medox (S5) Piedmont Floodplain Solis (F19) (MLRA 149A) Anomalous Bright Learny Solis (F20) (MLRA 149A, 153C, 153D) Delta Ochris (F10) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes NoX strictive Layer (If observed): Type: No Type:	 Depleted	d Below Dark Surface (A11)	Deplet	ed Ochric (F	, 11) (MLRA 18	51)		,
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 150) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A) unless disturbed or problematic. Sandy Reduced Vertic (F18) (MLRA 150A) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes NoX strictive Layer (If observed):	 Thick Da	ark Surface (A12)	,	Iron-M	anganese N	lasses (F12)	LRR O, P, T)	³ Indicators of	of hydrophytic vegetation and
Sandy Mucky Mineral (S1) (LRR 0, S) Delta Ochric (F17) (MLRA 150, 150B) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Solis (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Learny Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Learny Solis (F20) (MLRA 149A, 153C, 153D) stripped Matrix (S6) No	Coast Pi	rairie Redox (A16) (ML	RA 150A)	Umbrid	c Surface (F	13) (LRR P, T	U)	wetland hyd	rology must be present,
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Learny Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes NoX setrictive Layer (If observed): No Type: No Depth (inches): No amarks: Do positive indication of hydric soils was observed.	 Sandy M	/lucky Mineral (S1) (LR	R O, S)	Delta (Ochric (F17)	(MLRA 151)		unless distu	rbed or problematic.
Sandy Redox (S5)Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6)Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)	Sandy G	Gleyed Matrix (S4)		Reduc	ed Vertic (F	18) (MLRA 15	0A, 150B)		
Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes strictive Layer (if observed): Hydric Soil Present? Yes Type:	Sandy R	Redox (S5)		Piedm	ont Floodpla	in Soils (F19)	(MLRA 149A)		
Dark Surface (S7) (LRR P, S, T, U) sestrictive Layer (if observed): Type: Depth (inches): NoX amarks: o positive indication of hydric soils was observed.									
emarks:	Stripped Dark Sur	l Matrix (S6) rface (S7) (LRR P, S, 1 .ayer (if observed):	Γ, U)	Anoma	alous Bright	Loamy Soils (I	520) (MLRA 149	A, 153C, 153D)	
emarks: o positive indication of hydric soils was observed.	Stripped Dark Su estrictive L Type: Depth (inc	I Matrix (S6) rface (S7) (LRR P, S, T .ayer (if observed): 	Г, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No X
o positive indication of hydric soils was observed.	Stripped Dark Sur estrictive L Type: Depth (inc	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	г, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No X
s positive indication of hydric soils was observed.	Stripped Dark Sur estrictive L Type: Depth (inc	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	Γ, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No X
	Stripped Dark Sul estrictive L Type: Depth (inc emarks:	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Stripped Dark Su estrictive L Type: Depth (inc emarks:	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No X
	Stripped Dark Su estrictive L Type: Depth (inc emarks:	I Matrix (S6) rface (S7) (LRR P, S , T .ayer (if observed): :: :hes): : : ndication of hydric soils	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No X
	Stripped Dark Su Sstrictive L Type: Depth (inc emarks: p positive in	I Matrix (S6) rface (S7) (LRR P, S , T .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No X
	Stripped Dark Su estrictive L Type: Depth (inc emarks:	I Matrix (S6) rface (S7) (LRR P, S , T .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Stripped Dark Sun estrictive L Type: Depth (inc emarks:	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, u) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D)	No <u>X</u>
	Stripped Dark Sur estrictive L Type: Depth (inc	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Stripped Dark Sur estrictive L Type: Depth (inc emarks: p positive in	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Stripped Dark Sur estrictive L Type: Depth (inc emarks: positive in	Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Stripped Dark Sur estrictive L Type: Depth (inc emarks: positive in	Matrix (S6) rface (S7) (LRR P, S, 1 .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Stripped Dark Sur Type: Depth (inc	I Matrix (S6) rface (S7) (LRR P, S, 1 .ayer (if observed): 	r, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Stripped Dark Sur estrictive L Type: Depth (inc emarks:	I Matrix (S6) Iface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D)	No X
	Stripped Dark Sur Sstrictive L Type: Depth (inc	I Matrix (S6) Iface (S7) (LRR P, S , 1 .ayer (if observed): : : : : : : : : : : : : :	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D)	No X
	Stripped Dark Sur estrictive L Type: Depth (inc	I Matrix (S6) Iface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D)	No X
	Stripped Dark Su estrictive L Type: Depth (inc emarks: popositive in	I Matrix (S6) Iface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U) was observed	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	A, 153C, 153D)	NoX
	Stripped Dark Su Sstrictive L Type: Depth (inc pemarks: p positive in	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	Soil Present? Yes	NoX
	Stripped Dark Su estrictive L Type: Depth (inc emarks: positive in	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	Soil Present? Yes	NoX
	Stripped Dark Su estrictive L Type: Depth (inc emarks: positive in	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	Soil Present? Yes	No X
	Stripped Dark Su estrictive L Type: Depth (inc emarks: positive in	I Matrix (S6) Iface (S7) (LRR P, S , 1 .ayer (if observed): 	r, U)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	Soil Present? Yes	NoX
	Stripped Dark Su estrictive L Type: Depth (inc emarks: positive in	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, u)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	Soil Present? Yes	No X
	Stripped Dark Sur estrictive L Type: Depth (inc emarks: positive in	I Matrix (S6) rface (S7) (LRR P, S , 1 .ayer (if observed): 	r, u)	Anoma	alous Bright	Loamy Soils (f	F20) (MLRA 149	Soil Present? Yes	No X

Project/Site:		Dec	uincy I	ndustrial Park		Parish:	Calca	asieu	Sampling D	Date: Au	August 23, 2018	
Applicant/Owner:		SWLA Economic Development Alliance					State:	Louisiana	Sample Po	Sample Point:		
Investigator(s):	В	.McNab	b	and	T. Jones	Section, To	ownship, Range	e:	Sec. 23 - T7S -R11W			
Landform (hillslope, terrace, etc.):				Plain		Local relie	f (concave, con	vex, none):	None	Slope (%):	0-5	
Subregion (LRR or MLRA): LRR T					Lat:	30.43686	Long:	-93.46592	Datum:	NAD83		
Soil Map Unit Name: Glenmora silt loam, 1 to 3 p					lt loam, 1 to 3 pe	rcent slopes NWI Classification:				None		
Are climatic / hydrologic conditions on the site typical for this time of year?) <u>Yes</u>	(if no, e	explain in Rem	narks.)		
Are Vegetation	No	,Soil	No	or Hydrology,	No signit	ficantly distu	rbed? Are "No	ormal Circumsta	ances" presen	nt? Yes	X No	
Are Vegetation	No	,Soil	No	,or Hydrology	No natur	ally problem	natic?	(If needed, e	xplain any answers in Remarks.)			

Hvdrophytic Vegetation Pre	esent? Ye	s X		No								
Hvdric Soil Present?	Ye	s		No X Is the Sample			ed Area					
Wetland Hydrology Present? Yes				No X within a Wetland?			land?	Yes	No	х		
Remarks:												
This point was determin	ied not to be wi	thin a we	ətland dı	ue to th	e lack of hyd	ric soils and we	tland hydrology	у.				
HYDROLOGY												
Wetland hydrology Inc	licators:							Secondary Indicate	ors (minimum of	f two required)		
Primary Indicators (mini	mum of one is	required	; check	all that	apply)			Surface Soil	Cracks (B6)			
Surface Water (A	.1)			_ Aqua	itic Fauna (B	13)		Sparsely Ve	getated Concav	e Surface (B8)		
High Water Table	; (A2)			- Mari	Deposits (B1	(LRR U)		Drainage Pa	itterns (B10)			
Saturation (A3)	`			- Hyaro	ogen Sulfide		$D_{2} = t_{2}(O_{2})$		Ines (B16)	201		
Water Marks (B1) ito (P2)			- Oxiai	zea Knizosp	neres on Living	R001S(C3)	Dry-Season Water Table (C2)				
Drift Deposits (B3	IS (BZ)			- Rece	ence of Redu	uction in Tilled S	nile (C6)	Crayfish Burrows (C8)				
Algal Mat or Crus	") st (B4)			- Thin	Muck Surfac	e (C7)	5113 (00)	Geomorphic Position (D2) Shallow Aquitard (D3)				
Iron Deposits (B5	i)			- Othe	r (Explain in	Remarks)						
Inundation Visible	, e on Aerial Imac	aery (B7))	-	V 1	,		FAC-Neutra	I Test (D5)			
Water-Stained Le	aves (B9)							Sphagnum i	noss (D8) (LRR	≀ T, U)		
Field Observations:												
Surface Water Present?	Yes	_ No _	X	De	pth (inches):	N/A						
Water Table Present?	Yes	_ No _	X	De	pth (inches):	>20						
Saturation Present?	Yes	_ No _	<u> </u>	De	pth (inches):	>20	Wetland Hyd	drology Present?	Yes	_ NoX		
Describe Recorded Dat	a (stream gaug	e, monit	oring we	ell, aeria	al photos, pre	evious inspectio	ns), if available	9:				
Remarks:												
No positive indication of	f wetland hydro	logy was	3 observ	ed.								

CI.	1/	
OL.		

		A I I	Densinent	l	Dominance Test worksheet	
Tree Stratum (Distaire)	20 #)		Dominant Species2	Stotuo	Number of Deminant Species	
<u>I Rinus polustria</u>	<u> </u>	70 cover	<u>Species ?</u>		Thet Are OBL EACING or EAC:	
1. Finus parustris	<u> </u>	20	<u> </u>			.)
		20	165		Total Number of Dominant	
3					Species Across All Strate: 7 (R	2)
4						')
5					Percent of Dominant Species	
0		00	- Total Cover		That Are OBL EACW, or EAC: 57% (A	(B)
	-	90		10	That Are OBE, FACW, OF FAC (A	<i>"</i> D)
Sonling Stratum (Plat aiza:	20 ft)	40	20% of total cover.	10	Prevalence Index Worksheet:	
<u>Sapiling Stratum</u> (Flot size.	<u> </u>				Total % Cover of: Multiply by:	
						-
2					$\frac{\text{ODL species}}{\text{EACW}} = \frac{0}{2}$	-
3	<u> </u>				FACTV species $0 \times 2 = 0$	-
4	<u> </u>				FAC species 143 $x_3 = 433$	-
5					FACU species 130 $x 4 = 520$	-
б					$\begin{array}{c} \text{OPL species} \underline{0} x \text{ 5} = \underline{0} \\ \text{Ochamp Table} 075 (A) 055 \end{array}$	- (D)
	-				Column Lotals: <u>275</u> (A) <u>955</u>	- (B)
Ohavih Oharhum (DL)	50% of total cover:		20% of total cover:		Developer lader D/A	
Snrup Stratum (Plot size:	<u>30 n.</u>)			54.0	Prevalence Index = B/A = 3.47	-
1. Morella cerifera		50	<u>Yes</u>	FAC		
2. Ligustrum sinense	<u> </u>	35	Yes	FAC	Hydrophytic Vegetation Indicators:	
3. Rubus trivialis	<u> </u>	20	<u>No</u>	FACU	1 - Rapid Test for Hydrophytic Vegetation	
4. Triadica sebifera		10	<u> No </u>	FAC	\mathbf{X} 2 - Dominance Test is >50%	
5					3 - Prevalence Index is $\leq 3.0^{\circ}$	
6					Problematic Hydrophytic Vegetation (Explain)	
	-	115	= Total Cover			
	50% of total cover:	57.5	20% of total cover:	23	¹ Indicators of hydric soil and wetland hydrology must	
Herb Stratum (Plot size:	<u> 30 ft. </u>)				be present, unless disturbed or problematic.	
1. Rubus trivialis		20	Yes	FACU	Definitions of Five Vegetation Strata:	
2. <u>Liatris spicata</u>		20	Yes	FAC	Tree - Woody plants, excluding woody vines,	
3. Schizachyrium scoparium		20	Yes	FACU	approximately 20 ft (6m) or more in height and 3 in.	
4. Toxicodendron radicans		10	No	FAC	(7.6 cm) or larger in diameter at breast height (DBH).	
5						
6					Sapling - Woody plants, excluding woody vines,	
7					approximately 20 ft (6 m) or more in height and less	
8.					than 3 in. (7.6 cm) DBH.	
9.						
10.					Shrub - Woody plants, excluding woody vines,	
11.					approximately 3 to 20 ft (1 to 6 m) in height.	
		70	= Total Cover			
	- 50% of total cover:	35	20% of total cover:	14	Herb - All herbaceous (non-woody) plants, including	
Woody Vine Stratum (Plot size:	30 ft)			<u> </u>	herbaceous vines, regardless of size, and woody	
1 None Observed					plants, except woody vines, less than approximately	
2					3 ft (1 m) in height.	
3						
4					Woody vine - All woody vines, regardless of height.	
0			= Total Cover		Hydrophytic	
	=				Vegetation	
	50% OF IOLAI COVEL.				Present2 Yes X No	
Domorkov /if abaamind list	orphological adapt-ti-	no holow	<u>\</u>			
Remarks: (If observed, list m	orphological adaptatio	ons below).			
A positive indication of hydror	ohytic vegetation was	observed	(>50% of dominant	species inde	xed as OBL, FACW, or FAC).	

ches)	Color (moist)	%	Color (moist)	%	Type ¹	l oc ²	Texture	Remarks			
0-4	10YR 6/4	90	10YR 6/8	10	<u> </u>	 M	Silt				
4-16	10YR 5/3	80	10YR 3/6	15	C	PL	Silt				
		_	10YR 4/8	5	С	М					
<u> </u>						2					
ype: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, N	/IS=Masked	d Sand Grains.	² Location: PL:	Pore Lining, M=Ma	trix.			
Uistoso	Indicators: (Appil	cable to all	LKKS, UNIESS OU	lue Below S	Surface (S8) (I	PRSTIN	1 cm Muck (A	0) (I PP O)			
Histic F	ninedon (A2)		Toiyva	ark Surface	(S9) (I RR S	T II)	2 cm Muck (A	10) (I RR S)			
Black H	listic (A3)		Loamv	Mucky Min	eral (F1) (LRF	(, C) (O)	2 cm Mdck (/t Reduced Vert	ic (F18) (outside MLRA 150A.			
Hydrog	en Sulfide (A4)		Loamy	Gleved Ma	atrix (F2)	,	Piedmont Floo	odplain Soils (F19) (LRR P, S, 1			
Stratifie	d Layers (A5)		Deplete	ed Matrix (F	=3)		Anomalous B	ight Loamy Soils (F20)			
Organic	Bodies (A6) (LRR I	P, T, U)	Redox	Dark Surfa	ice (F6)		(MLRA 153B)				
5 cm M	ucky Mineral (A7) (L	RR P, T, U)	Deplete	ed Dark Su	rface (F7)		Red Parent Material (TF2)				
Muck P	resence (A8) (LRR	U)	Redox	Depressior	ns (F8)		Very Shallow Dark Surface (TF12)				
1 cm M	uck (A9) (LRR P, T)		Marl (F	10) (LRR L	ר)		Other (Explain	n in Remarks)			
Deplete	d Below Dark Surfa	ce (A11)	Deplete	ed Ochric (I	F11) (MLRA 1	51)	2				
Thick D	ark Surface (A12)		Iron-Ma	anganese N	Masses (F12)	(LRR O, P, T)	³ Indicators	of hydrophytic vegetation and			
_Coast F	Prairie Redox (A16) (MLRA 150	A)Umbric	Surface (F	⁻ 13) (LRR P, T	', U)	unless dist	arbed or problematic.			
_ Sandy I	Mucky Mineral (S1)	LRR O, S)	Delta C	Ochric (F17)) (MLRA 151)						
~			D 1	1 1 1 1 1							
Sandy (Gleyed Matrix (S4)		Reduce	ed Vertic (F	18) (MLRA 15	0A, 150B)					
Sandy (Sandy F	Gleyed Matrix (S4) Redox (S5)		Reduce	ed Vertic (F ont Floodpla	518) (MLRA 15 ain Soils (F19)	60A, 150B) (MLRA 149A)	A 4520 452D)				
Sandy (Sandy F Stripped Dark Su estrictive F Type:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed):	S, T, U)	Pieduce Pieduce Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/	A, 153C, 153D)				
Sandy (Sandy F Stripped Dark Su estrictive I Type: Depth (ind	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, 	S, T, U)	Pieduce	ed Vertic (F ont Floodpla llous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (ind emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed):	S, T, U)	Reduce Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 1497 Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy F Stripped Dark Su estrictive I Type: Depth (in-	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduce	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 1497 Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su Dark Su Destrictive I Type: Depth (in pemarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduce Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): ches):	S, T, U)	Reduce Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	i No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): ches):	S, T, U)	Reduce Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s NoX			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (in- emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): ches):	S, T, U)	Reduct	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No <u>X</u>			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (in- emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduce Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su Strictive I Type: Depth (in 	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduct	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	: NoX			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (in emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	served.	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric i	A, 153C, 153D) Soil Present? Yes	: No <u>X</u>			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	served.	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	;No <u>X</u>			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (ind 	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduct	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (ind emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): ches):	S, T, U)	Reduct Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s NoX			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (in-	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduct Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (in-	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduct	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduct	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	: No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (in emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	served.	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	served.	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (i0A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s No X			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): ches):	S, T, U)	served.	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	s NoX			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduct Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D) Soil Present? Yes	sNoX			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (inc emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduct Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D)	sNoX			
Sandy (Sandy f Stripped Dark Su estrictive I Type: Depth (ind emarks:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed): 	S, T, U)	Reduct Piedmo Anoma	ed Vertic (F ont Floodpla lous Bright	[:] 18) (MLRA 15 ain Soils (F19) Loamy Soils (60A, 150B) (MLRA 149A) F20) (MLRA 149/ Hydric :	A, 153C, 153D)	s No X			

Dequincy Industrial Park						Calcasieu			Sampling Date: A		August 23, 2018	
	SWLA Economic Development Alliance					State: Louisiana			Sample Point: SL		15	
В	.McNab	b	and	T. Jones	Section, T	ownship	, Range:					
Landform (hillslope, terrace, etc.):			Plain			Local relief (concave, convex, none)			None	Slope (%):		0-5
MLRA):			LRR T		Lat:	30.4	3883	Long:	-93.46743	Datum:		NAD83
oil Map Unit Name: Caddo-Messer complex,					percent slopes NWI CI			lassification: None				
ogic cond	ditions o	n the s	ite typical for this	time of year?	(Yes / No	o)	Yes	(if no, ex	plain in Rem	arks.)		
No	_,Soil_	No	or Hydrology,	<u>No</u> signi	ificantly dist	urbed?	Are "Norm	al Circumsta	nces" presen	t? Yes	х	No
No	,Soil	No	or Hydrology	No natu	rally probler	natic?	(lf needed, ex	kplain any an	swers in Ren	narks.)	
	B terrace, MLRA): : Dgic cond No No	Dec S B.McNab terrace, etc.): vlLRA): opic conditions o No ,Soil No ,Soil	Dequincy I SWLA E B.McNabb terrace, etc.):	Dequincy Industrial Park SWLA Economic Develor B.McNabb and terrace, etc.): Plain MLRA): LRR T : Caddo-Messer ogic conditions on the site typical for this No ,Soil No ,or Hydrology No ,Soil No ,or Hydrology	Dequincy Industrial Park SWLA Economic Development Alliance B.McNabb and T. Jones terrace, etc.): Plain MLRA): LRR T caddo-Messer complex, 0 to 1 ogic conditions on the site typical for this time of year? No ,Soil No ,or Hydrology No sign	Dequincy Industrial Park Parish: SWLA Economic Development Alliance	Dequincy Industrial Park Parish: SWLA Economic Development Alliance State B.McNabb and T. Jones Section, Township terrace, etc.): Plain Local relief (concar MLRA): LRR T Lat: 30.4 : Caddo-Messer complex, 0 to 1 percent slopes ogic conditions on the site typical for this time of year? (Yes / No) No ,Soil No ,or Hydrology No No ,Soil No ,or Hydrology No naturally problematic?	Dequincy Industrial Park Parish: Calcasie SWLA Economic Development Alliance State:	Dequincy Industrial Park Parish: Calcasieu SWLA Economic Development Alliance State: Louisiana B.McNabb and T. Jones Section, Township, Range: terrace, etc.): Plain Local relief (concave, convex, none):	Dequincy Industrial Park Parish: Calcasieu Sampling D SWLA Economic Development Alliance State: Louisiana Sample Po B.McNabb and T. Jones Section, Township, Range: Sec. 23 terrace, etc.): Plain Local relief (concave, convex, none): None MLRA): LRR T Lat: 30.43883 Long: -93.46743 : Caddo-Messer complex, 0 to 1 percent slopes NWI Classification:	Dequincy Industrial Park Parish: Calcasieu Sampling Date: A SWLA Economic Development Alliance State: Louisiana Sample Point: Image: Section, Township, Range: None Slope (%): MLRA): Plain Local relief (concave, convex, none): None Slope (%): MLRA): LRR T Lat: 30.43883 Long: -93.46743 Datum: : Caddo-Messer complex, 0 to 1 percent slopes NWI Classification: Image: Section, Township, Range: Slope (%): : LRR T Local relief (concave, convex, none): Non: Slope (%): Slope (%): : Caddo-Messer complex, 0 to 1 percent slopes NWI Classification: Image: Section, Township, Range: Sect	Dequincy Industrial Park Parish: Calcasieu Sampling Date: August 2 SWLA Economic Development Alliance State: Louisiana Sample Point: SL B.McNabb and T. Jones Section, Township, Range: Sec. 23 - T7S - R11W terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): MIRA): LRR T Lat: 30.43883 Long: -93.46743 Datum: Minoparticities conditions on the site typical for this time of year? (Yes / No) Yes (if no, explain in Remarks.) No ,Soil No ,or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

r												
Hvdrophytic Vegetation Pre	esent? Ye	s X		No								
Hvdric Soil Present?	Ye	s		No –	x	Is the Sampl	ed Area					
Wetland Hydrology Present? Yes				No X within a Wetland?			land?	Yes	No	х		
			_									
Remarks:						1						
This point was determin	າed not to be wi	ithin a we	tland du	ie to th	⊧e lack of hyd	lric soils and we	tland hydrology.					
Wetland hydrology In	dicators:							Coordona la dia at	(ii			
Primary Indicators (min	imum of one is	roquirod	chock (all that	apply)			Secondary Indicate	Cracks (B6)	of two required)		
Surface Water (/		required,	CHECK		appiy) atic Equat (B	13)		Surrace Sol	ciacks (DU)	avo Surfaco (B8)		
High Water Table	(A2)			Marl	Denosite (B1	13) (1 PP 11)		Oparsely ve	yelaleu Conce	ave Sullace (DO)		
Saturation (A3)	\$ (AZ)			Hydr	rogen Sulfide	Odor(C1)		Drainage Fa	ines (B16)			
Water Marks (B1)			Ovidi	ized Rhizosn	heres on Living	Roots(C3)	Nicos min E	Water Table ((C2)		
Sediment Denos) its (B2)			Pres	ence of Redu	iced Iron (C4)	10003(00)	Dry-Season	TOWS (C8)	02)		
Drift Deposits (B	3)			Rece	ent Iron Redu	uction in Tilled Sc	nils (C6)	Craynal burlows (CO)				
Algal Mat or Crus	st (B4)			Thin	Muck Surfac	e (C7)		Geomorphic Position (D2)				
Iron Deposits (B5	5)			Othe	r (Explain in	Remarks)		Shallow Aqu	itard (D3)			
Inundation Visible	, e on Aerial Ima	gery (B7)		-		,		FAC-Neutra	I Test (D5)			
Water-Stained Le	eaves (B9)	.,,						Sphagnum i	noss (D8) (LR	R T, U)		
Field Observations:												
Surface Water Present?	Yes	No	X	De	pth (inches):	N/A						
Water Table Present?	Yes	_ No _	X	De	pth (inches):	>20						
Saturation Present? (includes capillary fringe)	Yes	No	<u>x</u>	De	pth (inches):	>20	Wetland Hydi	rology Present?	Yes	NoX		
Describe Recorded Da	ta (stream dauc	ne monito	orina we	ll aeria	al photos pre	evious inspectio	l ns) if available:					
	ia (Sircani gaug	ge, monit	oning we	in, acris	ai priotos, pre		15), ii availabie.					
Remarks:												
No positive indication o	f wetland hydro	ology was	observ	ed.								
VEGETATION (Five Strata) - Use scientific names of plants.

Sampling Point:

<u></u>		_
~		~
-	_	

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	30 ft.)	% cover	Species?	Status	Number of Dominant Species
1. Pinus palustris	,	40	Yes	FACU	That Are OBL, FACW, or FAC: 6 (A)
2. Triadica sebifera		40	Yes	FAC	
3. Quercus nigra		30	Yes	FAC	Total Number of Dominant
4.					Species Across All Strata: 9 (B)
5.					
6					Percent of Dominant Species
		110	= Total Cover		That Are OBL, FACW, or FAC: 67% (A/B)
	50% of total cover:	55	20% of total cover:	22	
Sapling Stratum (Plot size:	<u>30 ft.</u>)				Prevalence Index Worksheet:
1. <u>Pinus palustris</u>		25	Yes	FACU	Total % Cover of: Multiply by:
2					OBL species x 1 =
3					FACW species x 2 =
4					FAC species 150 x 3 = 450
5					FACU species 135 x 4 = 540
6			·		UPL species x 5 =
		25	= Total Cover		Column Totals: (A) (E
	50% of total cover:	12.5	20% of total cover:	5	
Shrub Stratum (Plot size:	<u> 30 ft. </u>)				Prevalence Index = B/A = 3.47
1. Triadica sebifera		10	Yes	FAC	
2. Morella cerifera		20	Yes	FAC	Hydrophytic Vegetation Indicators:
3. Ilex vomitoria		20	Yes	FAC	1 - Rapid Test for Hydrophytic Vegetation
4					X 2 - Dominance Test is >50%
5			·		3 - Prevalence Index is ≤ 3.0 ¹
6					Problematic Hydrophytic Vegetation ¹ (Explain)
		50	= Total Cover		
	50% of total cover:	25	20% of total cover:	10	¹ Indicators of hydric soil and wetland hydrology must
Herb Stratum (Plot size:	<u> 30 ft. </u>)				be present, unless disturbed or problematic.
1. Schizachyrium scoparium		70	Yes	FACU	Definitions of Five Vegetation Strata:
2. <u>Rubus argutus</u>		30	Yes	FAC	Tree - Woody plants, excluding woody vines,
3					approximately 20 ft (6m) or more in height and 3 in.
4					(7.6 cm) or larger in diameter at breast height (DBH).
5					Confige Westerlands such discussed wines
6					Sapling - woody plants, excluding woody vines,
7					approximately 20 ft (6 m) or more in height and less
8					
9					Shruh Weedu slente evoluding weedu vince
10		·	·		Simus - woody plants, excluding woody vines,
11					approximately 3 to 20 ft (1 to 6 m) in height.
		100	= Total Cover		Harb All borbosoous (non weads) starts including
	50% of total cover:	50	20% of total cover:	20	herbassous visca, regardless of size, and weady
Woody Vine Stratum (Plot size:	: <u> </u>				nerte event weed wines less then entrevimetaly
1. None Observed			·		2 ft (1 m) in bright
2					
3					Weedwine Allwordwines regardless of bright
4					woody vine - All woody vines, regardless of height.
5					
			= Total Cover		Hydrophytic
	50% of total cover:		20% of total cover:		Vegetation
					Present? Yes X No
Remarks: (if observed, list m	norphological adaptat	ions below	/).		
A positive indication of hydro	phytic vegetation was	s observed	l (>50% of dominant	species inde	exed as OBL, FACW, or FAC).

eptn uches)	Color (moist)	%	Color (moist)	%		L oc ²	Texture	Remarks
0-6	10YR 4/3	100	None				Silt Loam	
6-16	10YR 5/3	95	10YR 5/8	5	С	M&PL	Silt Loam	
				—			<u> </u>	
			Reduced Matrix	MS=Maske		² Location: PL	=Pore Lining M=Mat	
/dric Soils	Indicators: (Appl	icable to all	LRRs, unless ot	herwise no	oted.)		Indicators for Prol	blematic Hydric Soils ³ :
Histosol	I (A1)		Polyva	lue Below	Surface (S8) (L	.RR S, T, U)	1 cm Muck (A	9) (LRR O)
Histic E	pipedon (A2)		Thin D	ark Surface	e (S9) (LRR S,	T, U)	2 cm Muck (A	10) (LRR S)
Black H	istic (A3)		Loamy	Mucky Mir	neral (F1) (LRF	0)	Reduced Verti	ic (F18) (outside MLRA 150A,
Hydroge	en Sulfide (A4)		Loamy	Gleyed Ma	atrix (F2)		Piedmont Floo	odplain Soils (F19) (LRR P, S,
Stratifie	d Layers (A5)		Deplet	ed Matrix (I	=3)		Anomalous Br	ight Loamy Soils (F20)
_Organic	Bodies (A6) (LRR	P, T, U)	Redox	Dark Surfa	ice (F6)		(MLRA 153B)	
_ 5 CM MI	ucky Mineral (A7) (L	.RR P, I, U) IIV	Deplet	ed Dark Su	rface (F7)		Red Parent Ma	aterial (TF2)
1 cm Mi		0)	Redux Marl (F	10) (I RR I	IS (FO)		Other (Explain	uin Remarks)
Deplete	d Below Dark Surfa	ce (A11)	Mail (i Deplet	ed Ochric (5) F11) (MLRA 1	51)		lin Kendikaj
Thick D	ark Surface (A12)		Iron-M	anganese l	Masses (F12)	(LRR O, P, T)	³ Indicators	of hydrophytic vegetation and
Coast P	Prairie Redox (A16)	(MLRA 150	A) Umbrio	c Surface (I	=13) (LRR P, T	, U)	wetland hyd	Irology must be present,
Sandy M	Mucky Mineral (S1)	(LRR O, S)	Delta (Ochric (F17) (MLRA 151)		unless distu	irbed or problematic.
Sandy C	Gleyed Matrix (S4)		Reduc	ed Vertic (F	18) (MLRA 15	0A, 150B)		
			Piedm	ont Floodal	ain Caila (E10)	(MI RA 149A)		
Sandy F	Redox (S5)			oneriooupi	ain Solis (F19)			
Sandy F Stripped Dark Su	Redox (S5) d Matrix (S6) ırface (S7) (LRR P,	S, T, U)	Anoma	alous Bright	Loamy Soils (F20) (MLRA 149	A, 153C, 153D)	
Sandy F Stripped Dark Su estrictive L	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, Layer (if observed)	S, T, U) :	Anoma	alous Bright	Loamy Soils (F20) (MLRA 149	A, 153C, 153D)	
Sandy F Stripped Dark Su estrictive L Type: 	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, Layer (if observed)	S, T, U) :	Anoma	alous Bright	Loamy Soils (=20) (MLRA 149	A, 153C, 153D)	No. X
Sandy F Strippec Dark Su estrictive L Type: Depth (inc	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U) :	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No X
Sandy F Strippec Dark Su estrictive L Type: Depth (inc	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U) :	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U) :	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No X
Sandy H Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Inface (S7) (LRR P, Layer (if observed) ches):	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Inface (S7) (LRR P, 	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks: p positive ir	Redox (S5) d Matrix (S6) urface (S7) (LRR P, 	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	No X
Sandy H Stripped Dark Su estrictive L Type: Depth (ind positive ir	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed) 	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Inface (S7) (LRR P, Layer (if observed) ches):	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
Sandy H Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, Layer (if observed) ches):	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) I Matrix (S6) Irface (S7) (LRR P, 	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	No <u>X</u>
Sandy F Stripped Dark Su estrictive L Type: Depth (ind	Redox (S5) I Matrix (S6) Irface (S7) (LRR P, 	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	NoX
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks: p positive ir	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed) ches): ndication of hydric s	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	NoX
Sandy H Stripped Dark Su estrictive L Type: Depth (ind emarks:	Redox (S5) d Matrix (S6) Inface (S7) (LRR P, Layer (if observed) ches): ndication of hydric s	S, T, U) : oils was obs	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	NoX
Sandy H Stripped Dark Su estrictive L Type: Depth (ind emarks: popositive ir	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, _ayer (if observed) 	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D) Soil Present? Yes	No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks: p positive ir	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	No X
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks: p positive ir	Redox (S5) d Matrix (S6) Irface (S7) (LRR P, 	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	NoX
Sandy F Stripped Dark Su estrictive L Type: Depth (ind	Redox (S5) Matrix (S6) Inface (S7) (LRR P, _ayer (if observed) 	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	NoX
Sandy F Stripped Dark Su estrictive L Type: Depth (ind emarks: o positive ir	Redox (S5) I Matrix (S6) Irface (S7) (LRR P, 	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	NoX
Sandy F Strippec Dark Su estrictive L Type: Depth (ind emarks: positive ir	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed) ches): ndication of hydric s	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	NoX
Sandy F Strippec Dark Su estrictive L Type: Depth (inc	Redox (S5) d Matrix (S6) urface (S7) (LRR P, _ayer (if observed) ches): ndication of hydric s	S, T, U)	Anoma	alous Bright	Loamy Soils (Hydric	A, 153C, 153D)	NoX

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site:		Dec	luincy l	ndustrial Park		Parish:		Calcasie	u	_Sampling D	ate: A	ugust 23	3, 2018
Applicant/Owner:		S	WLA E	conomic Develo	pment Alliance		State	e: _	Louisiana	_ Sample Po	oint:	SL1	6
Investigator(s):	В	.McNab	b	and	T. Jones	Section, T	ownship	, Range:		Sec. 23	3 - T7S -R11	Ν	
Landform (hillslope,	terrace,	etc.):		Plain		Local relie	ef (conca	ve, convex,	none):	None	Slope (%):		0-5
Subregion (LRR or I	MLRA):			LRR T		Lat:	30.4	3790	Long:	-93.46657	Datum:		NAD83
Soil Map Unit Name	: <u> </u>			Glenmora sil	lt loam, 1 to 3 pe	ercent slope	es		NWI Cla	assification:		None	
Are climatic / hydrole	ogic conc	ditions o	n the s	te typical for this	time of year?	(Yes / No	o)	Yes	(if no, e	xplain in Rem	arks.)		
Are Vegetation	No	_,Soil_	No	or Hydrology,	<u>No</u> signi	ficantly distu	urbed?	Are "Norma	al Circumsta	nces" presen	t? Yes	X	No
Are Vegetation	No	,Soil	No	,or Hydrology	No natur	rally problen	natic?	(lf needed, e	xplain any an	swers in Rem	narks.)	

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

r						1				
Hydrophytic Vegetation Pre	sent? Ye	s <u>X</u>		No _						
Hydric Soil Present?	Ye	s		No	X	Is the Sampl	ed Area			
Wetland Hydrology Present	t? Ye	s		No	Х	within a Wet	land?	Yes	No	X
Remarks:										
This point was determin	ed not to be wi	thin a w	ətland d	lue to th	e lack of hyd	ric soils and we	tland hydrology	у.		
HYDROLOGY										
Wetland hydrology Inc	dicators:							Secondary Indicate	ors (minimum c	of two required)
Primary Indicators (mini	imum of one is	required	l; check	all that	apply)			Surface Soil	Cracks (B6)	/
Surface Water (A	.1)			Aqua	atic Fauna (B	13)		Sparsely Ve	getated Conca	ve Surface (B8)
High Water Table	e (A2)			Marl	Deposits (B1	15) (LRR U)		Drainage Pa	atterns (B10)	
Saturation (A3)				Hydr	ogen Sulfide	Odor (C1)		Moss Trim L	ines (B16)	
Water Marks (B1))			Oxid	ized Rhizosp	heres on Living	Roots(C3)	Dry-Season	Water Table (0	22)
Sediment Deposi	ts (B2)			Pres	ence of Redu	uced Iron (C4)		Crayfish Bu	rows (C8)	
Drift Deposits (B3	3)			_ Rece	ent Iron Redu	iction in Tilled So	oils (C6)	Saturation V	isible on Aerial	Imagery (C9)
Algal Mat or Crus	it (B4)			_ Thin	Muck Surfac	e (C7)		Geomorphic	Position (D2)	
Iron Deposits (B5	')			_ Othe	er (Explain in	Remarks)		Shallow Aqu	itard (D3)	
Inundation Visible	on Aerial Imag	jery (B7)					FAC-Neutra	I Test (D5)	
Water-Stained Le	aves (B9)							Sphagnum r	noss (D8) (LRI	₹ 1, U)
Field Observations:										
Surface Water Present?	Yes	No	х	De	oth (inches):	N/A				
Water Table Present?	Yes	No No	X	– De	pth (inches):	>20				
Saturation Present?	Yes	No	Х	– De	pth (inches):	>20	Wetland Hyd	drology Present?	Yes	No X
(includes capillary fringe)				_						
Describe Recorded Dat	a (stream gaug	je, monit	toring w	ell, aeria	al photos, pre	evious inspectio	ns), if available	e:		
Remarks:										
No positive indication of	f wetland hydro	logy wa	s ohser	ved						
	nonana nyaro			· · · u.						

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

Sampling Point:

	Absolute	Dominant	Indicator	Dominance lest worksneet:
<u>Tree Stratum</u> (Plot size: <u>30 ft.</u>)	% cover	Species?	Status	Number of Dominant Species
1. Pinus palustris	/0	Yes	FACU	That Are OBL, FACW, or FAC: 4 (A)
2. Triadica sebitera	20	Yes	FAC	
3				I otal Number of Dominant
4				Species Across All Strata: (B)
5				
6				Percent of Dominant Species
	90	= Iotal Cover		That Are OBL, FACW, or FAC: (A/B)
50% of total cover:	45	20% of total cover:	18	Provalanca Index Workshoot:
Sapling Stratum (Plot size: <u>30 ft.</u>)				
1. None Observed				I otal % Cover of: Multiply by:
2				$OBL species 0 \qquad x \ 1 = 0$
3				FACW species $0 x^2 = 0$
4				FAC species 145 x 3 = 435
5				FACU species 130 x 4 = 520
6				UPL species x 5 =0
		= Total Cover		Column Totals: 275 (A) 955 (B)
50% of total cover:	·	20% of total cover:		
<u>Shrub Stratum</u> (Plot size: <u>30 ft.</u>)			_	Prevalence Index = B/A = 3.47
1. <u>Morella cerifera</u>	50	Yes	FAC	
2. Ligustrum sinense	35	Yes	FAC	Hydrophytic Vegetation Indicators:
3. <u>Rubus trivialis</u>	20	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
4. Triadica sebifera	10	No	FAC	X 2 - Dominance Test is >50%
5				3 - Prevalence Index is ≤ 3.0 ¹
6				Problematic Hydrophytic Vegetation ⁺ (Explain)
	115	= Total Cover		
50% of total cover:	57.5	20% of total cover:	23	¹ Indicators of hydric soil and wetland hydrology must
<u>Herb Stratum</u> (Plot size: <u>30</u> ft.)				be present, unless disturbed or problematic.
1. Rubus trivialis	20	Yes	FACU	Definitions of Five Vegetation Strata:
2. Liatris spicata	20	Yes	FAC	Tree - Woody plants, excluding woody vines,
3. Schizachyrium scoparium	20	Yes	FACU	approximately 20 ft (6m) or more in height and 3 in.
4. Toxicodendron radicans	10	No	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
5				
6				Sapling - Woody plants, excluding woody vines,
7				approximately 20 ft (6 m) or more in height and less
8				than 3 in. (7.6 cm) DBH.
9				
10				Shrub - Woody plants, excluding woody vines,
11				approximately 3 to 20 ft (1 to 6 m) in height.
	70	= Total Cover		
50% of total cover	35	20% of total cover:	14	Herb - All herbaceous (non-woody) plants, including
Woody Vine Stratum (Plot size: 30 ft.)				herbaceous vines, regardless of size, and woody
1. None Observed				plants, except woody vines, less than approximately
2				3 ft (1 m) in height.
3				
4				Woody vine - All woody vines, regardless of height.
5				
		= Total Cover		Hydrophytic
50% of total cover		20% of total cover:		Vegetation
				Present? Yes X No
Remarks: (if observed, list morphological adapta	tions below	·).		
A positive indication of hydrophytic vegetation wa	s observed	(>50% of dominant	species inde	exed as OBL FACW, or FAC)
			-,	

chesp. Color (molest) % Type ¹ Loc ² Texture Remarks chesp. 107R 503 100 Nore — — Sitt — chesp. 107R 503 100 Nore — — Sitt — — Sitt — chesp.	pth <u>Matrix</u>			Redox F	eatures			
0-16 10YR 5/3 100 None	ches) Color (moist)	<u>%</u> Colo	or (moist)		Type ¹	Loc ²	Texture	Remarks
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ¹ Location: PL=Pore Lining, M=Matrix. ydfr. Solis Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problemati Hydric Solis ¹ : Heitus (1/1) P Proyvalue Below Strafac (83) (LRR S, T, U) 2 on Muck (M9) (LRR S) Black Heitus (43) Loamy Gleyed Matrix (P2) Pendmont Floodplane Solis (F10) (LRR D) Pendmont Floodplane Solis (F10) (LRR P, T, U) Opperio Excises (A0) (LRR P, T, U) Depleted Dark Surface (F11) Depleted Dark Surface (F11) Pendmont Floodplane Solis (F12) Orgenic Excises (A0) (LRR P, T, U) Depleted Dark Surface (F11) Pendmont Floodplane Solis (F12) Mark (F10) (LRR P, T, U) Depleted Dark Surface (A11) Depleted Dark Surface (F11) Pendmont Floodplane Solis (F12) Mark F12) Cocast Praine Redok (A16) (MLRA 150) Iron-Mangarese Masses (F12) (LRR P, T, U) ³ Indicators of Problematic. Sandry Mucky Mineral (S1) (LRR P, S, T, U) Delated Edebro (A16) (MLRA 150) ³ Indicators of Problematic. Sandry Gleyed Matrix (S4) Predmont Floodplane Solis (F12) (MLRA 150) ³ Indicators of Problematic. Sandry Mucky Mineral (S1) (LRR P, S, T, U) Delate Surface (S10) (MLRA 150) ³ Indicators of Problematic. Sandry Mucky Mineral	0-1610YR_5/3	100 N	lone				Silt	
ype: C:Concentration, D:Depletion, RM:Reduced Matrix, MS-Masked Sand Grains. *Location: PL=Pore Lining, M:Matrix. Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soll5*. Histoc (A1) Tom bark Wards (B) (LRR S, T, U) 2 on Muck (M0 (LRR O)) Black Histo (A3) Loamy Mucky Mineral (F) (LRR O) Reduced Vettic (FI) (LRR O) Hydrogen Suffice (A1) Loamy Glaved Matrix (F2) Performation (D) (LRR P, S) Oppleted Matrix (F2) Depleted Matrix (F2) Performation (D) (LRR P, S) Oppleted Date Source (F1) Reduce Operations (F8) Mick (A10) (LRR P, T) Oppleted Date Source (F1) Reduce Operations (F12) Red Parent Material (TP2) Optime Bodies (A6) (LRR P, T, U) Depleted Datrix (F11) Red Parent Material (TP2) Depleted Date Source (F12) Reduce Operations (F12) Red Narthae (T12) Ocast Prime Reduce (A5) (LRR P, T, U) Depleted Date Source (F12) Notations of Prodophytic vogetation and welland tydrology must be present, unless disturbed or problematic. Sandy Micky Mineral (S1) (LRR P, S) Demont Floadplain Solls (F10) (MLR A 159A) Indicators of Pydrophytic vogetation and welland tydrology must be present, unless disturbed or problematic. Sandy Micky Mineral (S1) (LRR P, S, T, U) Performat								
ype: C=Concentration. D=Depletion. RM=Reduced Matrix, MS=Masked Sand Grains. ¹ Location: PL=Pore Lining, M=Matrix. yhistos (A1) Pelyvisube Below Starface (B8) (LRR S, T, U) 1 Indicators (Applicable to all LRRs, unless otherwise noted.) 1 Histos (A2) Polyvisube Below Starface (B8) (LRR S, T, U) 2 anduck (A9) (LRR P) Bitsch Histo (A3) Loamy Micky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A) Organio Boiles (A4) Loamy Micky Mineral (F2) Peldentor Floodplain Solis (F20) Organio Boiles (A6) (LRR P, T, U) Reduce Operessions (F8) -Anomalous Bright Loamy Solis (F20) Organio Boiles (A1) Depleted Datrix (F11) (MLRA 150) -Werky Shallow Dark Surface (F7) Onder Depression (F8) Untrick Depressions (F8) -Werky Shallow Dark Surface (F7) Obiles Dark Surface (A12) Untrick Dark R (F12) (LRR P, T, U) -Werky Shallow Dark Surface (F7) Obiles Dark Surface (S1) Depleted Below Sing (F10) (MLRA 150A) -Werky Shallow Dark Surface (F7) Obiles Dark Surface (A12) Untrick Dark Surface (F12) (LRR P, T, U) -Werky Shallow Dark Surface (F7) Depleted Below Sing (S1) Depleted Below Sing (F10) (MLRA 150A) -Werky Shallow Dark Surface (F7) Simpd Nedox (S5) Depleted Merking (F11								
yps: C.=Concentration, D=Depletion, RM=Reduced Matrix, MS=Marked Sand Grains. *Locator: {Applicable to all LRRs, unless otherwise noted.) Indicators: {Applicable to all LRRs, unless otherwise noted.) Histoc Epiceton (A2) Thin Dark Surface (38) (LRR S, T, U) 2 on Muck (A0) (LRR O) Black Histic (A3) Loamy Mucky Mineral (F) (LRR O) Reduced Vertic (FI) (MIRA O) Protein Sufface (A1) Loamy Mucky Mineral (F) (LRR O) Reduced Vertic (FI) Muck (A0) (LRR P, T, U) Depleted Matrix (F3) Depleted Dark Surface (F6) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) (MLRA 1530) Dick Oark Surface (A1) Depleted Dark Surface (F7) Red Parent Matrix (F72) Orm Mucky Mineral (A1) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Matrix (F72) Dork Mark Surface (A2) Loan-Manganese Masses (F12) (LRR O, P, T) Thick Dark Surface (F12) Dork Muck (A0) (LRR P, T, U) Depleted Dark Surface (F12) Indicators of hydrohydroicy wastel f(F12) Dork Muck (A0) (LRR P, T, U) Depleted Dark Surface (F13) Thick Dark Surface (A2) The Dark Surface (F12) Dark Surface (A3) (LRR P, T, U) Depleted Dark Surface (F13) (LRR A 0, T) Indicators of hydrohydroky waste present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Ver					·			
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ¹ Location: PL=Pore Lining, M=Matrix. ydric Soits Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soits ¹ : Histos(A) Thin Dark Surface (S8) (LRR S, T, U) 2 cm Muck (A) (LRR S) Biok Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Peduced Vertic (F18) (outside MLRA 150A) Stratified Layers (A5) Depleted Matrix (F2) Peduced Vertic (F18) (outside MLRA 150A) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Obtarix (F12) Matrix (F2) Organic Bodies (A8) (LRR P, T, U) Depleted Obtarix (F11) Red Parent Matria (TF2) Muck (Pasence (A8) (LRR U) Reduced Vertic (F11) (MLRA 151) Depleted Obtarix (F12) (LRR O, P, T) Depleted Dotic (F11) (MLRA 150A) Depleted Obtaris (F12) (MLRA 150A) Startace (F12) (MLRA 150A) Startace (F3) (MLRA 150A) Marri (F10) (MLRA 150A, 150A) Depleted Obtaris (F12) (MLRA 150A) Bandy Macio (Matrix (S4) Reduced Vertic (F13) (MLRA 150A, 150B) Parentember ab present, unless disturbed or problematic. Bandy Redox (S5) Pedicetor Defound Floodplant Soils (F12) (MLRA 143A) Anomalous Bright Learny Soils (F20) (MLRA 143A) Stripped Matrix (S4) Reduced Vertic (F15) (MLRA 150A, 150A)								
ype: C.=Concentration, D.=Depleton, RM=Reduced Matrix, MS=Masked Sand Grains. *Locator: PL=Ore Lining, M=Matrix, Hidic Solis Micators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis? Hidic Solis Micators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis? Black Histic (A3) Loamy Glayeed Matrix (P2) 2 more Mark (A10) (LRR P, 3) Strattled Layers (A5) Depleted Matrix (P3) Anomalous Bright Loamy Solis (P20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Pedmont Fhoodphin Solis (P20) Strattled Layers (AS) Depleted Dark Surface (F6) (MLRA 1538) Sorm Mucky Mineral (X7) (LRR P, T, U) Redox Dark Surface (F1) Watrix (F10) (LRP P, 3) Machinee (A3) (LRR P, T) Mark (F10) (LRR P, 1) Mark (F10) (LRP P, 1) Depleted Below Dark Surface (A11) Depleted Dark Surface (F11) (MLRA 151) Therd-Marganese Masses (F12) (LRR P, P, 1) Sandy Glayed Matrix (S4) Reduced Vertic (F13) (MLRA 150, 1) Therd-Marganese Masses (F12) (LRR P, 7) ¹ / ₁ dicators of hydrophytic vegetation and used dialarbed or problemate. Sandy Glayed Matrix (S6) Reduced Vertic (F13) (MLRA 150, 1) Therd-Marganese Masses (F12) (LRR P, 1) ¹ / ₁ dicators of hydrophytic vegetation and used dialarbed or								
gree C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. *Location PL=Pore Lining, M=Matrix. Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Hinkson (A1) PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: Hinkson (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A) (LRR S) Black Histic (A3) Learny Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A, 150A) Stratified Layers (A5) Depleted Matrix (F2) Peleferont Floodplain Soils (F20) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) Werly Shallow Dark Surface (F12) Muck (Psence (A8) (LRR P, T, U) Depleted Dark Surface (F1) Red Parent Matrix (S12) Depleted Balew Dark Surface (T1) Depleted Othic (F11) (MLRA 151) Peleferod Othic (F11) (MLRA 151) Thick Dark Surface (A12) Inton-Kanganese Masses (F12) (LRR P, T, U) Parente Cay (A13) (MLRA 150A) Sandy Mucky Meneral (S1) (MLRA 150A) Depleted Othic (F13) (MLRA 150A, 150B) Peleferod Othic (F13) (MLRA 150A) Sandy Gucky Matrix (S5) Anomalous Bright Learny Soils (F20) (MLRA 149A, 153C, 153D) Public Soil Present? Yes No X Sandy Gucky Matrix (S6) Anomalous Bright Learny Soils (F20) (MLRA 149A, 1								
yee: C=Concentrator, D=Depleton, RM=Reduced Matrix, Ms=Masked Sana GransLoadnor, PL=Fore Linnig, IM-Matrix, Lydric Solis ¹ ; refrec Solis Indecess (LAP) (LRR O)						2		
rdrc Soli Indicators: Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis: Hittosol (A1) — Dolyadue Below Surface (S9) (LRR S, T, U)	pe: C=Concentration, D=Depler	tion, RM=Reduc	ced Matrix, I	/IS=Masked	Sand Grains.	² Location: PL	.=Pore Lining, M=Matr	iX.
Histo: Epipedon (A2) Polyvalue Below Surface (S9) (LRR S, T, U) 1 cm Muck (A0) (LRR O) Histo: Epipedon (A2) Bink Histo (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A) Organic Bodies (A6) (LRR P, T, U) Reduced Xurface (F6) Som Mucky Mineral (A7) (LRR P, T, U) Reduced Xurface (F6) Som Mucky Mineral (A7) (LRR P, T, U) Reduced Xurface (F6) Construction (A8) (LRR P, T, U) Reduced Xurface (F12) Reduced Xurface (F12) Reduced Xurface (F12) Muck (A90) (LRR P, T, U) Reduced Xurface (F12) Reduced Xurface (F12) Depleted Dark Surface (F12) Depleted Surface (F12) Depleted Surface (F12) Depleted Dark Surface (F12) Depleted A04 (NURA 150A) Depleted Carter (F13) (MLR A 151) Sandy Mucky Mineral (S1) (LRR O, S) Reduced Vertic (F13) (MLR A 150A, 150B) Sandy Gloyed Matrix (S6) Deta Ochric (F12) (MLR A 150A, 150B) Sandy Gloyed Matrix (S6) Pherimer More (S13) (MLR A 150A, 150B) Stripted Matrix (S6) Pherimer More (S12) (MLR A 150A, 150B) Deta Surface (S7) (LRR P, S, T, U) Stripted Matrix (S6) Pherimer More (S13) (MLR A 150A, 150B) Stripted Matrix (S6) Pherimer More (S12) (MLR A 150A, 150B) Stripted Matrix (S6) Pherimer More (S12) (MLR A 150A, 150C)<td>dric Soils Indicators: (Applica</td><td>ble to all LRRs</td><td>s, unless ot</td><td>herwise no</td><td>ted.)</td><td></td><td>Indicators for Prob</td><td>lematic Hydric Soils":</td>	dric Soils Indicators: (Applica	ble to all LRRs	s, unless ot	herwise no	ted.)		Indicators for Prob	lematic Hydric Soils":
Hist Epipedon (A2) Thin Dark Surface (39) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Bick Hist (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F15) (Outside MLRA 150A, 150B) Grganic Bodie (A6) (LRR P, T, U) Depleted Matix (F2) Pledmont Floodplain Solis (F20) Grganic Bodie (A6) (LRR P, T, U) Depleted Dark Surface (F7) Red Park Material (TF2) Muck Presence (A8) (LRR P, T) Depleted Dark Surface (F7) Red Park Material (TF2) I om Muck (A6) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Balow Dark Surface (A11) Depleted Ochrin (F11) (MLRA 151) Other (Explain in Remarks) Depleted Balow Dark Surface (A12) Intro-Maragenees Masses (F12) (LRR O, P, T) and (F10) (LRR P, T, U) Coast Praine Rodrox (A16) (MLRA 150) Depleted Ochrin (F11) (MLRA 151) and calors of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Varic (F13) (MLRA 150A, 150B) Sandy Gleyed Matrix (S4) Pledmont Floodplain Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Depleted Matrix (S4) Reduced Varic (F13) (MLRA 150A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Marc (S1) Reduced Varic (F13) (MLRA 154A, 153C, 153D) Dark Surface (S7) (LRR P, S	_Histosol (A1)		Polyva	lue Below S	Surface (S8) (L	RR S, T, U)	1 cm Muck (A9) (LRR O)
Black Histic (A3)	Histic Epipedon (A2)		Thin D	ark Surface	(S9) (LRR S,	T, U)	2 cm Muck (A1	0) (LRR S)
Hydrogen Sulfide (A4) Loamy Cleved Matrix (F2) Pretent Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) (MLRA 153) Mack Presence (A6) (LRR P, T) Depleted Dark Surface (F7) Red vz Depressions (F8) Very Shallow Dark Surface (T12) 1 cm Muck (A0) (LRR P, T) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Other (Explain in Remarks) Bandy Muck Wineral (A11) Depleted Ochric (F12) (LRR P, T, U) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wreat and hydrology must be present, unless disturbed or problemate. Sandy Mucky Mineral (A15) (MLRA 0, S) Delta Ochric (F13) (MLRA 150A, 150B) ³ Indicators of hydrophytic vegetation and wreat and hydrology must be present, unless disturbed or problemate. Sandy Mucky Mercal (S1) (LRR P, S, T, U) Pedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Sandy Redox (S5) Predmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X Sandrictive Layer (if observed): Ype: No X op positive indication of hydric soils was observed. Sandrictive Soils was observed. </td <td>Black Histic (A3)</td> <td></td> <td>Loamy</td> <td>Mucky Min</td> <td>eral (F1) (LRR</td> <td>O)</td> <td> Reduced Vertic</td> <td>(F18) (outside MLRA 150A,</td>	Black Histic (A3)		Loamy	Mucky Min	eral (F1) (LRR	O)	Reduced Vertic	(F18) (outside MLRA 150A,
Stratified Layers (A5)	Hydrogen Sulfide (A4)		Loamy	Gleyed Ma	trix (F2)		Piedmont Floor	Iplain Soils (F19) (LRR P, S, 1
Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) G om Mucky Mineral (X7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR P, T) Mart (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Sandy Mucky Mineral (X1) (LRR P, S) Depleted Ochric (F11) (MLRA 151) ³ Indicators of hydrophytic vegetation and unless disturbed or problematic. Sandy Mucky Mineral (X1) (LRR P, S) Delta Ochric (F11) (MLRA 150A) unless disturbed or problematic. Sandy Mucky Mineral (X1) (LRR P, S) Delta Ochric (F11) (MLRA 150A) (MLRA 149A) adisturbed or problematic. Sandy Mucky Mineral (X1) (LRR P, S, T, U) Pedmont Floodplain Solis (F19) (MLRA 149A, 153C, 153D) Anomalous Bright Learny Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X marks: Deptitive indication of hydric soils was observed. Solis (F10) (MLRA 150A) Solis (F10) (MLRA 150A)			Deplet	ed Matrix (F	3)		Anomalous Brig	ht Loamy Soils (F20)
S om Mucky Minoral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Red Xo Depressions (F8) Uery Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Depleted Chric (F11) (MLRA 151) Trick Dark Surface (A12) Umbric Surface (F12) (LRR O, P, T) Marl (F10) (MLRA 151) Cocast Parien Redox (A16) (MLRA 150) Depleted Ochric (F11) (MLRA 151) Below Dark Surface (F13) (LRR P, T, U) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Foodplain Solis (F19) (MLRA 149A) Striped Matrix (S8) Piedmont Foodplain Solis (F20) (MLRA 149A) Anomalous Bright Learny Solis (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X Surface indication of hydric soils was observed. Surface (S0) No X	Organic Bodies (A6) (LRR P.	T, U)	Redox	Dark Surfa	ce (F6)		(MLRA 153B)	
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shaht warks (T12) 1 em Muck (A9) (LRR V, T) Mari (F10) (LRR V) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Cherk (F11) (MLRA 151) andicators of hydrophytic vagetation and welland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mieral (S1) (LRR O, S) Below Dark Surface (F12) (LRR O, P, T) andicators of hydrophytic vagetation and welland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mieral (S1) (LRR O, S) Delta Ochrin (F17) (MLRA 150) unless disturbed or problematic. Sandy Mucky Mieral (S1) (LRR O, S) Reduced Vertic (F18) (MLRA 150A, 150B) pelard Derived Natrix (S8) Sandy Kedox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soil Present? Yes No X x separatic: positive indication of hydric soils was observed.	5 cm Mucky Mineral (A7) (LRI	R P. T. U)	 Deplet	ed Dark Su	rface (E7)		Red Parent Ma	terial (TF2)
Index (A9) (LRR P, T) Index Outpose Optional Stress (1712) Depleted Below Dark Surface (A11) Depleted Cohric (F11) (MLRA 151) Thick Dark Surface (A12) Inon-Manganese Masses (F12) (LRR 0, P, T) Sandy Mucky Mineral (S1) (LRR 0, S) Delta Cohric (F11) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F13) (LRR P, T, U) Sandy Gleyed Matrix (S6) Pledmort Floodplain Solis (F19) (MLRA 149A) Shipped Matrix (S6) Pledmort Floodplain Solis (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Solis (F20) (MLRA 149A), 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Hydric Soll Present? Yes No X strictive Layer (If observed): Type: Type: No X Depth (inches): No X	Muck Presence (A8) (I PP II)	, ., ., .,	Depict		nace (F8)		Very Shallow D	ark Surface (TE12)
Toth made (res) (LKR 0)			Norl /E		IS (I 0)		Very Shallow D	in Demorke)
Depieted Using (P11)								in Remarks)
Thick Dark Surface (A12)	Depieted Below Dark Surface	(A11) .		ea Ocnric (i	-11) (IVILRA 1:	01) 	3	
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) unless disturbed or problematic. Sandy Mucky (Sis) Delta Cohrie (F17) (MLRA 151) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)	Thick Dark Surface (A12)		Iron-M	anganese N	/lasses (F12)	LRR O, P, T)	"Indicators of	ology must be present
Sandy Mucky Mineral (S1) (LRR 0, S)	_ Coast Prairie Redox (A16) (M	LRA 150A)	Umbri	: Surface (F	13) (LRR P, T	U)	unless distur	bed or problematic.
Sandy Gleyed Matrix (S4) Reduced Verit (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) strictive Layer (if observed): Type: Type: Depth (inches): Mydric Soil Present? Yes no	Sandy Mucky Mineral (S1) (LF	RR O, S)	Delta (Ochric (F17)) (MLRA 151)			
Surjaped Matrix (S6)			Reduc	ed Vertic (F	18) (MLRA 15	0A, 150B)		
Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Sandy Gleyed Matrix (S4)							
Dark Surface (S7) (LRR P, S, T, U) sestrictive Layer (if observed): Depth (inches): NoX amarks: o positive indication of hydric soils was observed.	_ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5)		Piedm	ont Floodpla	ain Soils (F19)	(MLRA 149A)		
emarks:	_ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) 520) (MLRA 149	A, 153C, 153D)	
a positive indication of hydric soils was observed.	_ Sandy Gleyed Matrix (S4) _ Sandy Redox (S5) _ Stripped Matrix (S6) _ Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No X
o positive indication of hydric soils was observed.	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No X
s positive indication of hydric solis was observed.	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No X
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S,	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4)Sandy Redox (S5)Stripped Matrix (S6)Dark Surface (S7) (LRR P, S,	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4)Sandy Redox (S5)Stripped Matrix (S6)Dark Surface (S7) (LRR P, S,	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S,	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4)Sandy Redox (S5)Stripped Matrix (S6)Dark Surface (S7) (LRR P, S, strictive Layer (if observed): Type: Depth (inches): marks: positive indication of hydric soils	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, strictive Layer (if observed): Type: Depth (inches): marks: positive indication of hydric soil:	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, strictive Layer (if observed): Type: Depth (inches): marks: positive indication of hydric soil:	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D) Soil Present? Yes	No <u>X</u>
	Sandy Gleyed Matrix (S4)Sandy Redox (S5)Stripped Matrix (S6)Dark Surface (S7) (LRR P, S, strictive Layer (if observed): Type: Depth (inches): marks: positive indication of hydric soils	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4)Sandy Redox (S5)Stripped Matrix (S6)Dark Surface (S7) (LRR P, S, strictive Layer (if observed): Type: Depth (inches): marks: positive indication of hydric soils	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) ⁻ 20) (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, strictive Layer (if observed): Type: Depth (inches): marks: positive indication of hydric soil:	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, strictive Layer (if observed): Type: Depth (inches): marks: positive indication of hydric soils	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (f	(MLRA 149A) (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, strictive Layer (if observed): Type: Depth (inches): marks: positive indication of hydric soils	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) ⁽²⁰⁾ (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) ⁽²⁰⁾ (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) (20) (MLRA 149 Hydric	A, 153C, 153D)	No <u>X</u>
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) (20) (MLRA 149 Hydric	A, 153C, 153D)	No X
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) (20) (MLRA 149 Hydric	A, 153C, 153D)	No X
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma 	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) (20) (MLRA 149 Hydric	A, 153C, 153D)	NoX
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma 	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) (20) (MLRA 149 Hydric	A, 153C, 153D)	NoX
	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, 	T, U)	Piedm Anoma	ont Floodpla alous Bright	ain Soils (F19) Loamy Soils (F	(MLRA 149A) (20) (MLRA 149 Hydric	A, 153C, 153D)	NoX