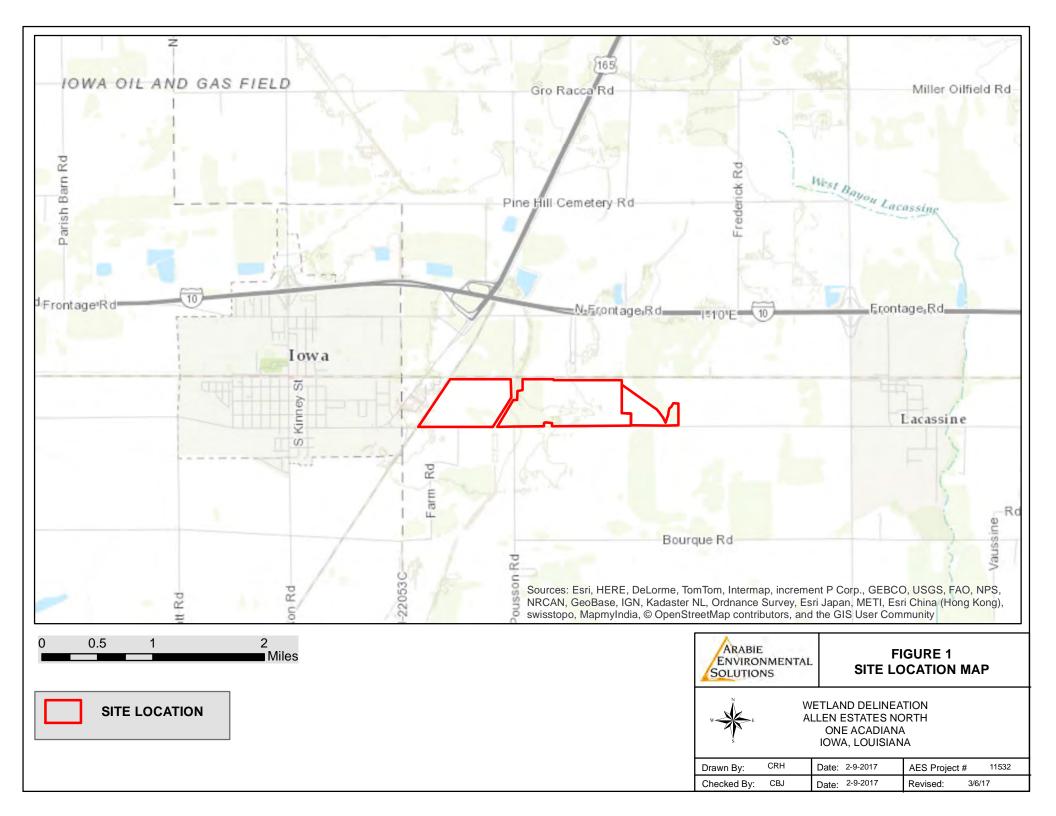
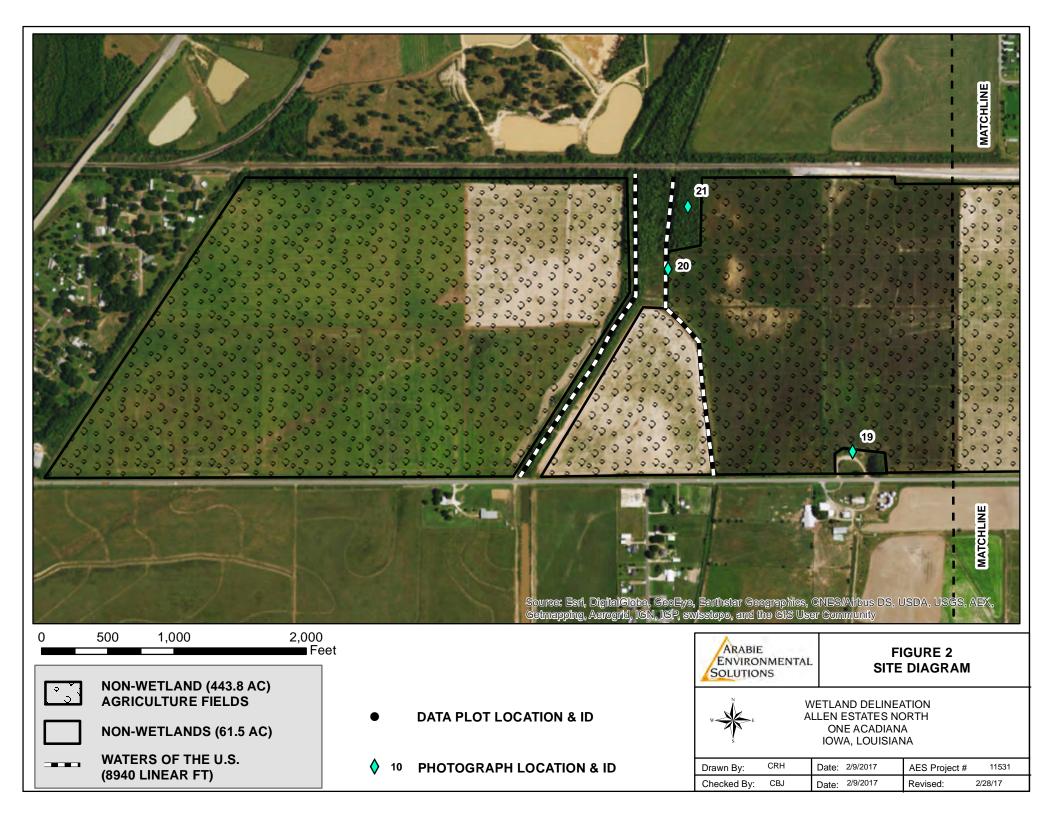
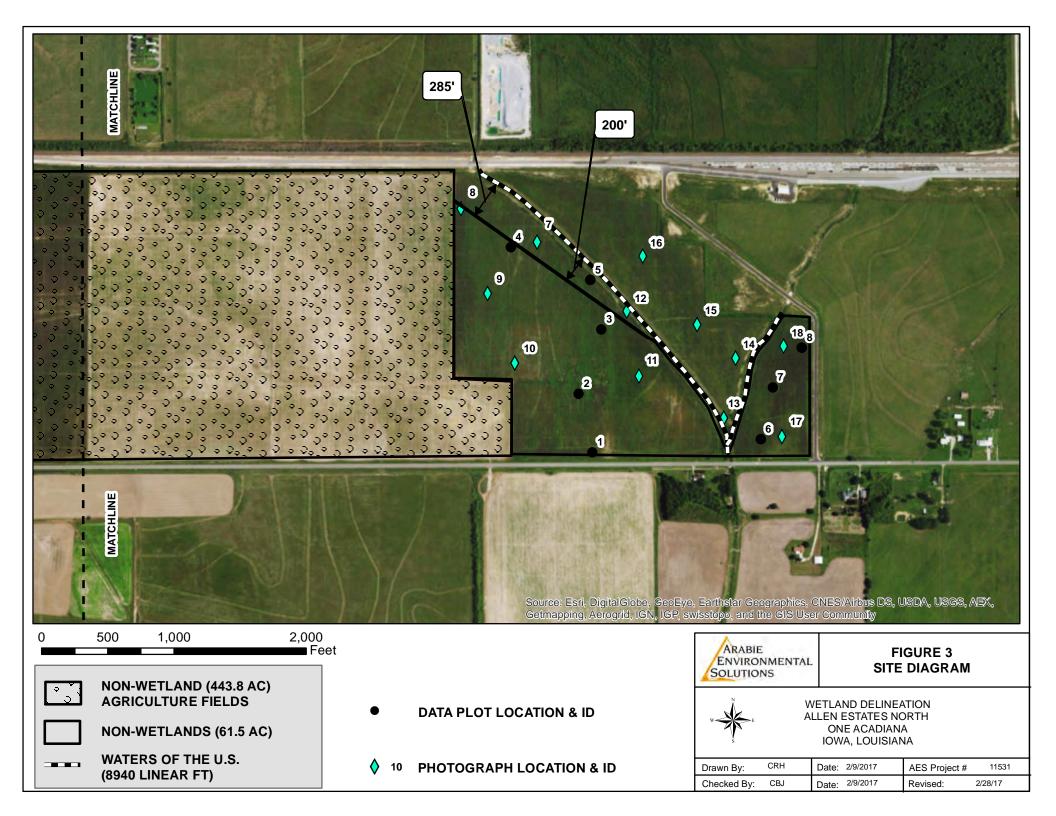
Exhibit DD. T.O. Allen Industrial Park North Wetlands Delineation











Project/Site: One Acadiana, Allen Estates North Tract	City/County: Iowa	a/Jefferson Davis	Sampling Date: 2-8-17
Applicant/Owner: One Acadiana		State: LA	Sampling Point: 1
Investigator(s): C. Hoffpauir	Section, Townshir	, Range: Sect. 26, Town.	9 South, Range 6 West
	Local relief (conca	ve, convex, none): None	Slope (%): <u>0-3</u> Datum: UTM NAD 83
Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation $\frac{No}{No}$, Soil $\frac{No}{No}$, or Hydrology $\frac{No}{No}$ sign Are Vegetation $\frac{No}{No}$, Soil $\frac{No}{No}$, or Hydrology $\frac{No}{No}$ national SUMMARY OF FINDINGS — Attach site map shape $\frac{No}{No}$	nificantly disturbed? urally problematic?	Are "Normal Circumstances" (If needed, explain any answ	present? Yes X No ers in Remarks.)
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes No No Remarks: No No	X Is the Sam within a W	pled Area etland? Yes	No_X
Historical Agriculture Field Recent Rainfall in Area.			
HYDROLOGY			
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Hydrogen : Oxidized R Presence of Recent Iron Thin Muck	suna (B13) sits (B15) (LRR U) Sulfide Odor (C1) Rhizospheres along Living F of Reduced Iron (C4) In Reduction in Tilled Soils (Surface (C7) Iolain in Remarks) I (inches): I (inches):	Surface Soi Sparsely Ve Drainage Pa Moss Trim L Coots (C3) Crayfish Bu C6) Saturation V Geomorphic Shallow Aqu FAC-Neutra Sphagnum	Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) c Position (D2) uitard (D3) Il Test (D5) moss (D8) (LRR T, U)
Remarks:			

VEGETATION (Four Strata) - Use scientific fiamles of plant	VEGETATION (Four Strata) - Use scien	ntific names of	lants.
--	--------------------------------------	-----------------	--------

50% of total cover:

50% of total cover: 2.5

)

50% of total cover: 46

50% of total cover: ___

____)

= Total Cover

= Total Cover

FACU

FAC

FAC

FAC

FACU

Present?

FAC

__ 20% of total cover: 1

Yes

Yes

No

No

No

No

= Total Cover

__ 20% of total cover: _18.4

_____ = Total Cover

20% of total cover:

40

30

10

5

92

___ 20% of total cover: _

Tree Stratum (Plot size: 30

Sapling/Shrub Stratum (Plot size: 30

1. Baccharis halimifolia

Herb Stratum (Plot size: 30

1. Solidago altissima

2. Paspalum urvellei

5. Poa annua

3. Verbena brasiliensis

6. Cyperus esculentus

Andropogon virginicus

11. _____

2.

1. None

Sampling Point: 1 Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: _ (A) Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 67 _ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = _____ UPL species _____ x 5 = ____ Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% _ 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in Hydrophytic Vegetation

Remarks:	(it observed,	list morphological	adaptations	below,

Woody Vine Stratum (Plot size: 30)

Yes X No ___

(inches)	Color (moist)	%	Color	Red r (moist)	ox Featur %	es Type ¹	Loc ²	Texture	Remarks
0-8	10YR 4/3	100		(IIIOISI)		Type		Silt loam	Remarks
3-12	10 YR 4/3	98	10YR	3/6	2	C	M	Silt loam	ş
12-16			_		5	-	-0 	-	
2-10	10YR 3/2	95	7.5 YR	4/6	5	С	M, PL	Silt loam	
	·					-			
vne: C=C	oncentration, D=Dep	oletion RM	=Reduce	d Matrix M	 IS=Maske	d Sand G	raine	21 ocation:	PL=Pore Lining, M=Matrix.
	Indicators: (Applic						Tanio.		for Problematic Hydric Soils ³ :
Histoso	I (A1)		ПР	olyvalue B	elow Surf	ace (S8)	LRR S, T,	U) 1 cm N	Muck (A9) (LRR O)
	pipedon (A2)			hin Dark S					Muck (A10) (LRR S)
	istic (A3)			oamy Muc	The second second second		R 0)		ed Vertic (F18) (outside MLRA 150A,I
The second second second	en Sulfide (A4)			oamy Gley		(F2)			ont Floodplain Soils (F19) (LRR P, S, T
	d Layers (A5) : Bodies (A6) (LRR F	T 10		epleted Mark		E6)			alous Bright Loamy Soils (F20) RA 153B)
	ucky Mineral (A7) (L		=	epleted Da					arent Material (TF2)
	resence (A8) (LRR L	74 11 12 11 11 11 11 11		Redox Depr					Shallow Dark Surface (TF12)
_	uck (A9) (LRR P, T)			1arl (F10) ((Explain in Remarks)
Deplete	d Below Dark Surfac	ce (A11)		epleted O	chric (F11	(MLRA	151)		
_	ark Surface (A12)						(LRR O, P		cators of hydrophytic vegetation and
	rairie Redox (A16) (Imbric Surf					land hydrology must be present,
	Mucky Mineral (S1) (Gleyed Matrix (S4)	LRR 0, 5)		elta Ochrid			50A, 150B)		ess disturbed or problematic.
THE RESERVE AND ADDRESS.	Redox (S5)					2000-120-200) (MLRA 14		
	Matrix (S6)						Automotive and the second	RA 149A, 153C	, 153D)
Dark Su	irface (S7) (LRR P, S	S, T, U)							
	ırface (S7) (LRR P, S Layer (if observed)								
								U.S.T.	
estrictive	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type:	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)		_					Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X
estrictive Type: Depth (in	Layer (if observed)							Hydric Soil	Present? Yes No X

Project/Site: One Acadiana, Allen Estates North Tract	City/County: _lowa/Jeffers	son Davis	Sampling Date: 2-8-17
Applicant/Owner: One Acadiana			Sampling Point: 2
Investigator(s): C. Hoffpauir	Section, Township, Range		
	Local relief (concave, conv		
Subregion (LRR or MLRA): LRR-T Lat: 3			Datum: UTM NAD 83
Soil Map Unit Name: Kaplan silt loam (KpA)		NWI classifi	
Are climatic / hydrologic conditions on the site typical for this time			
Are Vegetation No , Soil No , or Hydrology No signifi		rmal Circumstances"	present? Yes X No
Are Vegetation No , Soil No , or Hydrology No natura	ully problematic? (If needs	ed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sampling point loca	ations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No X	Is the Sampled Are		
Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	within a Wetland?	Yes	No X
Remarks:			
Historical Agriculture Field			
Recent Rainfall in Area.			
Troopin Trainian III 7 II od.			
HYDROLOGY			
Wetland Hydrology Indicators:			rators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a			l Cracks (B6)
Surface Water (A1) Aquatic Faun Mad Denositi			egetated Concave Surface (B8)
(B 12 C	s (B15) (LRR U) Ifide Odor (C1)	Moss Trim I	atterns (B10)
(F) 	zospheres along Living Roots (C:		Water Table (C2)
	Reduced Iron (C4)	Crayfish Bu	the comment of the co
	Reduction in Tilled Soils (C6)	☐ Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Position (D2)
[10 12] - 1 : 10 : 10 : 10 : 10 : 10 : 10 : 10 :	n in Remarks)	☐ Shallow Aqu	2
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutra	
Field Observations:		Sphagnum	moss (D8) (LRR T, U)
Surface Water Present? Yes No X Depth (iii	nches).		
Water Table Present? Yes No X Depth (in			
Saturation Present? Yes No X Depth (iii		nd Hydrology Prese	nt? Yes No_X
(includes capillary fringe)		11.25 - 11.25 - 12.00	
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if	available:	
Remarks:			
Remarks.			

	VEGETATION	(Four Strata)	- Use scientific name	s of plants
--	------------	---------------	-----------------------	-------------

50% of total cover: Remarks: (If observed, list morphological adaptations bel	20% of ow).	total cover			
		total cover			
		total agrees	,		
×	= Total Cover			Vegetation Present? Yes X No	
5				Hydrophytic	
4					
3					
2					
1. None					
Noody Vine Stratum (Plot size: 30)					
50% of total cover: 46	20% of	total cover	18.4		
		= Total Cov	/er		_
12				7.5	
11				Woody vine – All woody vines greater than 3.28 ft height.	III
10					in
9.				Herb – All herbaceous (non-woody) plants, regardl of size, and woody plants less than 3.28 ft tall.	ess
8 Paspalum urvellei	2	No	FAC		
7 Rumex crispus	5	No	FAC	Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.	ess
5. Nothoscordum bivalve	5	No	FACU	Sanling/Shrub Woody slants avaluding these to	202
5. Ambrosia trifida	10	No	FAC	more in diameter at breast height (DBH), regardles height.	S Of
Soliva sessilis	10	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	
Poa annua	10	No	FACU	Definitions of Four Vegetation Strata:	
2. Verbena brasiliensis	20	Yes	FAC	THE PARTY AND A STATE OF THE CASE OF THE PARTY.	
Herb Stratum (Plot size: 30) Solidago altissima	30	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.	ıst
50% of total cover: 2.5	-	= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)	6
3.	_	- Total Car		3 - Prevalence Index is ≤3.0¹	
7				2 - Dominance Test is >50%	
6				1 - Rapid Test for Hydrophytic Vegetation	
5				Hydrophytic Vegetation Indicators:	
4				Prevalence Index = B/A =	
3				(7)	(0)
2				Column Totals: (A)	(B)
1. Baccharis halimifolia		Yes	FAC	FACU species x 4 = UPL species x 5 =	
Sapling/Shrub Stratum (Plot size: 30)				FAC species x 3 =	
50% of total cover:	20% of	total cover	::	FACW species x 2 =	
		= Total Co	ver	OBL species x 1 =	
8				Total % Cover of:Multiply by:	
7				Prevalence Index worksheet:	
6					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B
4.			تت		
3				Total Number of Dominant Species Across All Strata: 3	(B)
2.					.,,
None		Office Pro-	<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC: 2 ((A)
Tree Stratum (Plot size: 30)	Absolute % Cover	Species?		Dominance Test worksheet:	

Depth	Matrix			dox Featur	es			
(inches)	Color (moist)	100	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-9	10YR 4/3	100	Enter the 1970			-	Silt loam	
9-13	10 YR 3/2	98	7.5YR 3/4	2	_ <u>C</u>	M	Silt loam	
13-16	10YR 4/2	98	7.5 YR 3/4	2	C	М	Silt loam	
Type: C=C Aydric Soil Histoso Histic E Black F Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy I Sandy I Stripped Dark St	Concentration, D=De Indicators: (Applie I (A1) Spipedon (A2) Spipedon (A2) Spipedon (A3) Spipedon (A4) Spipedon (A5) Spipedon (A5) Spipedon (A6) (LRR I) Spipedon (A6) (LRR I) Spipedon (A8) (LRR I) Spipedon (A8) (LRR I) Spipedon (A8) (LRR I) Spipedon (A10) Spipe	pletion, RM= cable to all I P, T, U) .RR P, T, U) U) ce (A11) (MLRA 150A (LRR O, S)	Reduced Matrix, M. RRs, unless oth Polyvalue E. Thin Dark S. Loamy Gley Depleted M. Redox Dark Depleted D. Redox Dep Marl (F10) Depleted O. Iron-Manga I Umbric Sur Delta Ochri Reduced V. Piedmont F	MS=Maske erwise no Below Surface (S Sky Minera yed Matrix latrix (F3) k Surface ark Surface ark Surface (LRR U) chric (F11 inese Mas face (F13) c (F17) (N ertic (F18)	ed Sand Grated.) (ace (S8) (I (F1) (LRI (F2) (F6) (F6) (F7) (F8) (LRR P, Table (LRR P,	51) (LRR O, P T, U) 50A, 150B	²Location: PL= Indicators for F U)	Material (TF2) w Dark Surface (TF12) ain in Remarks) s of hydrophytic vegetation and hydrology must be present, isturbed or problematic.

Project/Site: One Acadiana, Allen Estates North Tract	City/County: Iowa/Jefferson Davis Sampling Date: 2-8-17
Applicant/Owner: One Acadiana	State: LA Sampling Point: 3
	Section, Township, Range: Sect. 26, Town. 9 South, Range 6 West
Landform (hillslope, terrace, etc.): Slight Ridge	Local relief (concave, convex, none): convex Slope (%): 0-3
Subregion (LRR or MLRA): LRR-T Lat: 33	44760.10 Long: 503856.91 Datum: UTM NAD 83
Soil Map Unit Name: Kaplan silt loam (KpA)	NWI classification: None
Are Vegetation No Soil No , or Hydrology No naturally	antly disturbed? Are "Normal Circumstances" present? Yes X No
Hydrophytic Vegetation Present? Yes X No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X Remarks: No X	Is the Sampled Area within a Wetland? Yes No_X
Historical Agriculture Field Recent Rainfall in Area.	
HYDROLOGY	
Sediment Deposits (B2)	Sparsely Vegetated Concave Surface (B8) (B15) (LRR U) de Odor (C1) Despheres along Living Roots (C3) Educed Iron (C4) Eduction in Tilled Soils (C6) face (C7) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Water Table Present? Yes No X Depth (inc	thes): Wetland Hydrology Present? Yes No X
Remarks:	

Tree Stratum (Plot size: 30) 1. None	% Cover	Dominant Species?	Status	Dominance Test worksheet Number of Dominant Species That Are OBL, FACW, or FAC		
2.				Total Number of Dominant	- V	
3				Species Across All Strata:	3 (B)	
k <u>-</u>				D		
i.,				Percent of Dominant Species That Are OBL, FACW, or FAC		
5.						
7				Prevalence Index workshee		
3.				Total % Cover of:		
		= Total Cov	er	OBL species		
50% of total cover:	20% of	total cover		FACW species		
Sapling/Shrub Stratum (Plot size: 30)				FAC species		
Baccharis halimifolia	20	Yes	FAC	FACU species		
				UPL species		
4				Column Totals:	(A)(B)	
				Prevalence Index = B/A	A =	
5,				Hydrophytic Vegetation Inc	7	
)				1 - Rapid Test for Hydron		
1				2 - Dominance Test is >5		
B				3 - Prevalence Index is ≤	P 42	
	20	= Total Cov	rer	Problematic Hydrophytic		
50% of total cover: 10				Troblematio Trydrophlytic	vegetation (Explain)	
Herb Stratum (Plot size: 30)				¹ Indicators of hydric soil and	wetland hydrology must	
1. Solidago altissima	30	Yes	FACU	be present, unless disturbed		
2. Verbena brasiliensis	20	Yes	FAC	Definitions of Four Vegetat	ion Strata:	
Andropogon virginicus	10	No	FAC	Tena Mandu planta avalud	ing vines 2 in /7.6 am) or	
4. Poa annua	10	No	FACU	Tree – Woody plants, exclude more in diameter at breast he		
5. Cyperus esculentus	10	No	FAC	height.	J	
Ambrosia trifida	5	No	FAC	Sapling/Shrub – Woody plan	nts excluding vines less	
Nothoscordum bivalve	5	No	FACU	than 3 in. DBH and greater th		
Trifolium repens	2	No	FACU	Herb – All herbaceous (non-	woody) plants, rogardlass	
9.				of size, and woody plants les		
10				W		
11.				Woody vine – All woody vine height.	es greater than 3.28 ft in	
12.						
	92	= Total Cov	er			
50% of total cover: 46		total cover				
Woody Vine Stratum (Plot size: 30)		- CONT. 540.3V				
1. None						
2.						
3.						
4.						
5.				Hydrophytic		
	= Total Cover			Hydrophytic Vegetation Present? Yes X No		
50% of total cover	20% of total cover:			Tresent: 165 NO		

Depth	Matrix			x Feature				7.22.77.77
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-10	10YR 4/2	100			-		Silt loam	
10-16	10 YR 3/2	98	7.5YR 4/6	2	C	M	Silt loam	
Hydric Soil Histoso Histic E Black H Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy I Sandy I Stripped Dark St	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) e Bodies (A6) (LRR I) ucky Mineral (A7) (L resence (A8) (LRR P, T) d Below Dark Surfac ark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed)	cable to all P, T, U) .RR P, T, U) U) ce (A11) (MLRA 150A (LRR O, S)	LRRs, unless othe Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Marl (F10) (L Depleted Oc Iron-Mangan Delta Ochric Reduced Ve	rwise no elow Surfa urface (SS y Mineral ed Matrix ttrix (F3) Surface (rk Surface essions (F _RR U) hric (F11) esse Mass ace (F13) (F17) (M rtic (F18) podplain S	ted.) ace (S8) (LRR S, (F1) (LRR (F2) F6) e (F7) F8) (MLRA 1 ses (F12) ((LRR P, T LRA 151) (MLRA 15 Soils (F19)	ERR S, T, I T, U) (CO) 51) LRR O, P, T, U) 60A, 150B; (MLRA 14	Indicators for U)	at Material (TF2) ow Dark Surface (TF12) olain in Remarks) as of hydrophytic vegetation and at hydrology must be present, disturbed or problematic,

Project/Site: One Acadiana, Allen Estates North Tract City/Coun	ty: Iowa/Jefferson Davis Sampling Date: 2-8-17
Applicant/Owner: One Acadiana	State: LA Sampling Point: 4
	Township, Range: Sect. 26, Town. 9 South, Range 6 West
	ef (concave, convex, none): convex Slope (%): 1-3
Subregion (LRR or MLRA): LRR-T Lat: 3344949.53	Long: 503646.92 Datum: UTM NAD 83
Soil Map Unit Name: Kaplan silt loam (KpA)	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes_	
Are Vegetation No_, Soil No_, or Hydrology No_ significantly disturbed	
Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampli	ng point locations, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present? Yes No X	the Sampled Area thin a Wetland? Yes No X
Remarks:	
Historical Agriculture Field Recent Rainfall in Area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Present?	Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	is inspections), if available.
Remarks:	

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

20		Dominant		Dominance Test worksheet		
Tree Stratum (Plot size: 30) 1. None	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC	2 2	(A)
 				Total Number of Dominant Species Across All Strata:	3	(B)
<u>, </u>						
				Percent of Dominant Species That Are OBL, FACW, or FAC	. 67	(A/B
				That Ale OBE, I NOVY, of The	100	
				Prevalence Index workshee		
				Total % Cover of:	Multiply b	y:
		= Total Co	/er	OBL species	x 1 =	
50% of total cover:				FACW species	x 2 =	
apling/Shrub Stratum (Plot size: 30)	20 /0 0/	total bosol		FAC species	x 3 =	
Baccharis halimifolia	20	Yes	FAC	FACU species	x 4 =	
				UPL species	x 5 =	
-				Column Totals:	(A)	(B

				Prevalence Index = B/A		
				Hydrophytic Vegetation Indi		
				1 - Rapid Test for Hydrop	hytic Vegetation	on
/ <u></u>				2 - Dominance Test is >5	0%	
<u> </u>				3 - Prevalence Index is ≤	3.0 ¹	
	20	= Total Co	/er	Problematic Hydrophytic	√egetation¹ (E	xplain)
50% of total cover: 10	20% of	total cover	4			
erb Stratum (Plot size: 30) Andropogon virginicus	30	Yes	FAC	¹ Indicators of hydric soil and we be present, unless disturbed of		
Solidago altissima	30	Yes	FACU	Definitions of Four Vegetati	Table Committee	
17.1	10	No	FAC	Definitions of Four Vegetati	on Strata:	
Post levisions	10	No	FACU	Tree - Woody plants, excluding		
	5			more in diameter at breast he height.	ght (DBH), reg	gardless o
Nothoscordum bivalve	5	No	FACU	rieight.		
Sesbania herbacea		No	FACW	Sapling/Shrub – Woody plan than 3 in. DBH and greater tha		
				Herb - All herbaceous (non-w	oody) plants,	regardless
				of size, and woody plants less	than 3.28 ft ta	all.
0				Woody vine – All woody vine	s greater than	3 28 ft in
1)				height.	greater than	0.20 11 111
2						
	90	= Total Co	/er			
50% of total cover: 45	20% of	total cover	18			
/oody Vine Stratum (Plot size: 30) None						
. 1999						
·				W. C. S. S.		
k		2000		Hydrophytic		
	100	= Total Co		Vegetation Present? Yes X	No	
		total cover		110001111		_

Sampling	Det.	4	
sampling	Hoint.		

Profile Des	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confirm	n the absence o	f indicators.)
Depth	Matrix	'0/		ox Feature		1 2	~	2
(inches) 0-8	Color (moist) 10YR 4/2	100	Color (moist)	%	_Type ¹	_Loc ²	Silt loam	Remarks
	-	-	7 5 45					
8-12	10 YR 3/2	98	7.5YR 4/6	2	C	M	Silt loam	
12-16	10YR 3/2	90	7.5YR 4/6	10	С	M, PL	Silt Loam	
								7
			-					
	-			-		-		
-							-	
			I=Reduced Matrix, M I LRRs, unless othe			ains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :
Histosol		cable to al	Polyvalue B			DDCTI		uck (A9) (LRR O)
	pipedon (A2)		Thin Dark S					uck (A10) (LRR S)
	istic (A3)		Loamy Much					d Vertic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gley					nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark					A 153B)
	ucky Mineral (A7) (L resence (A8) (LRR		Depleted Da					ent Material (TF2) allow Dark Surface (TF12)
	uck (A9) (LRR P, T)		Marl (F10) (0)			explain in Remarks)
	d Below Dark Surfa		Depleted Oc	The second secon	(MLRA 1	51)		, appear in Tromancy
Thick D	ark Surface (A12)		☐ Iron-Mangar	nese Mass	ses (F12) (LRR O, P,		tors of hydrophytic vegetation and
	rairie Redox (A16)					r, U)		and hydrology must be present,
	Mucky Mineral (S1)	(LRR O, S)		200				s disturbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve		A STATE OF THE RESERVE	The season of th		
	Matrix (S6)				Control of the Contro		RA 149A, 153C, 1	153D)
	rface (S7) (LRR P,	S, T, U)				(3.0)		
Restrictive	Layer (if observed):						
Type:							1.00	
Depth (in	ches):						Hydric Soil P	Present? Yes No X
Remarks:								

Project/Site: One Acadiana,	Allen Estates North Tr	act City/C	County: lowa/Jefferson	n Davis	Sampling Date: 2-8-17
Applicant/Owner: One Acadia					Sampling Point: 5
Investigator(s): C. Hoffpauir		Section	on, Township, Range:	Sect. 26, Town. 9	South, Range 6 West
Landform (hillslope, terrace, etc.	.); Flat	Local	relief (concave, convex	, none); None	Slope (%): 0
Subregion (LRR or MLRA): LR		Lat: 3344874.08			Datum: UTM NAD 83
Soil Map Unit Name: Mowata				NWI classific	
Are climatic / hydrologic condition	ons on the site typical for	this time of year? Y			
Are Vegetation No , Soil No	, or Hydrology No	_ significantly distur	bed? Are "Norma	al Circumstances"	present? Yes X No
Are Vegetation No , Soil No	, or Hydrology No	_ naturally problema	atic? (If needed,	explain any answe	rs in Remarks.)
				ons, transects	, important features, etc.
	46			CDL E SILL	
Hydrophytic Vegetation Preser Hydric Soil Present?	Yes X	No	Is the Sampled Area	· ·	
Wetland Hydrology Present?	Yes X Yes X	No	within a Wetland?	Yes X	No
Remarks:					
Historical Agriculture	Field				
Recent Rainfall in Ar					
Trecent rannan in Ai	ca.				
LIVERGLOOV			-		4
HYDROLOGY				Canadaa ladia	dada (adiminatura af hura mantiluad)
Wetland Hydrology Indicator Primary Indicators (minimum o		all that apply)			etors (minimum of two required)
		tic Fauna (B13)		Surface Soil	getated Concave Surface (B8)
Surface Water (A1) High Water Table (A2)	The state of the s	Deposits (B15) (LRI	D 11/	Drainage Pa	A CONTRACTOR OF THE PROPERTY O
Saturation (A3)		ogen Sulfide Odor (Moss Trim L	
Water Marks (B1)			long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro	성으로 가게 되는 것이 없는 것이 없는 것이다.	Crayfish Bur	
Drift Deposits (B3)		nt Iron Reduction in	All the least the second second		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin f	Muck Surface (C7)		☐ Geomorphic	Position (D2)
Iron Deposits (B5)	U Other	(Explain in Remark	(S)	Shallow Aqu	itard (D3)
Inundation Visible on Aeria	al Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9	3)			☐ Sphagnum n	noss (D8) (LRR T, U)
Field Observations:	. Y	0.0	5"		
Surface Water Present?	Yes X No [
Water Table Present?	Yes X No [Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes X No [Depth (inches): 0-0	Wetland	Hydrology Preser	nt? Yes X No
Describe Recorded Data (stream	am gauge, monitoring we	II, aerial photos, pre	vious inspections), if av	ailable:	
Remarks:					

		as the contract of the second	
VEGETATION	(Four Strata) -	Use scientific names	of plants.

Tree Stratum (Plot size: 30)		Dominant Species?		Dominance Test worksheet		
None				Number of Dominant Species That Are OBL, FACW, or FAC		_ (A)
				Total Number of Dominant Species Across All Strata:	3	_ (B)
				Percent of Dominant Species		
				That Are OBL, FACW, or FAC	100	_ (A/B
						30302
				Prevalence Index workshee		
				Total % Cover of:		
		= Total Co	/er	OBL species		
50% of total cover:	20% of	total cover	:	FACW species		
apling/Shrub Stratum (Plot size: 30)				FAC species		
Baccharis halimifolia	5	Yes	FAC	FACU species		
				UPL species		
				Column Totals:	(A)	(B)
				Prevalence Index = B/A	=	
				Hydrophytic Vegetation Ind		
				1 - Rapid Test for Hydrop		
-				2 - Dominance Test is >5		
				3 - Prevalence Index is ≤		
		= Total Co	/er	Problematic Hydrophytic		lain)
50% of total cover: 2.5	20% of	total cover	: 1		rogolation (EMP	ianij
erb Stratum (Plot size: 30) Cyperus acuminatus	40	Yes	OBL	¹ Indicators of hydric soil and v		/ must
Eleocharis microcarpa	20	Yes	OBL	Definitions of Four Vegetati	2,402,040,000	
Verbena brasiliensis	10	No	FAC			
Andropogon glomeratus	5	No	FACW	Tree – Woody plants, excluding		
Paspalum urvellei	5	No	FAC	more in diameter at breast he height.	gnt (DBH), regar	diess o
				Sapling/Shrub – Woody plan than 3 in. DBH and greater the		
				Herb – All herbaceous (non-woof size, and woody plants less		ardless
				of size, and woody plants less	than 3.20 it tall.	
0				Woody vine – All woody vine	s greater than 3.2	28 ft in
1			_	height.		
2+	80	T-1-10-				
50% of total cover: 40		= Total Control				
	20% 01	total cover	-			
/oody Vine Stratum (Plot size: 30) None						
		-		1		
	_			1.7.1.4		
·		147.00 \$ 140		Hydrophytic		
	-	= Total Co		Vegetation Present? Yes X	No	
50% of total cover:						

Depth	cription: (Describe Matrix	. 10 1110 401		ox Featur		or oomin	ii tiio abseriot	or malautors.
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-6	10YR 4/2	95	7.5YR 4/6	5	С	M, PL	Silt loam	Saturated
6-12	10 YR 4/2	90	7.5YR 4/6	10	С	M, PL	Silt loam	Moist
12-16	10YR 4/2	85	7.5YR 4/6	15	<u>C</u>	M, PL	Silt Loam	Moist
Hydric Soil Histoso Histic E Black H Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Gand I Sandy I Stripped Dark St	pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) c Bodies (A6) (LRR Fucky Mineral (A7) (Lresence (A8) (LRR P, T) d Below Dark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed)	P, T, U) RR P, T, U U) Ce (A11) MLRA 150 (LRR O, S)	LRRs, unless other Polyvalue B Thin Dark S Loamy Muci Loamy Gley Depleted Manager Redox Dark Depleted Danager Redox Depr Marl (F10) (Depleted Or Iron-Mangar Manager	erwise no elow Surf durface (Si ky Minera red Matrix atrix (F3) Surface (ark Surface ressions (I LRR U) chric (F11 nese Mass face (F13) c (F17) (M ertic (F18)	ted.) ace (S8) (I 9) (LRR S, I (F1) (LRF (F2) F6) e (F7) F8)) (MLRA 1 ses (F12) ((LRR P, T LRA 151) (MLRA 1 Soils (F19)	ERR S, T, U T, U) (T) (T) (T) (T) (T) (T) (T) (T) (T) (T	Indicators U)	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils³: Muck (A9) (LRR O) Muck (A10) (LRR S) Ded Vertic (F18) (outside MLRA 150A,E Bont Floodplain Soils (F19) (LRR P, S, T Balous Bright Loamy Soils (F20) RA 153B) Brarent Material (TF2) Bhallow Dark Surface (TF12) (Explain in Remarks) Cators of hydrophytic vegetation and tland hydrology must be present, ess disturbed or problematic. C., 153D) I Present? Yes X No No

Project/Site: One Acadiana, Allen Estates North Tract	City/County: lowa/Jefferson Davis Sampling Date: 2-8-17
Applicant/Owner: One Acadiana	State: LA Sampling Point: 6
Investigator(s): C. Hoffpauir	Section, Township, Range: Sect. 26, Town. 9 South, Range 6 West
	ocal relief (concave, convex, none); None Slope (%); 0-1
Subregion (LRR or MLRA): LRR-T Lat: 334450	07.64 Long: 504223.05 Datum: UTM NAD 83
Soil Map Unit Name: Mowata silt loam (MtA)	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year Are Vegetation No , Soil No , or Hydrology No significantly of Are Vegetation No , Soil No , or Hydrology No naturally probability of SUMMARY OF FINDINGS – Attach site map showing	r? Yes X No (If no, explain in Remarks.) disturbed? Are "Normal Circumstances" present? Yes X No
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area within a Wetland? Yes No _X
Historical Agriculture Field Recent Rainfall in Area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Sediment Deposits (B2)	test along Living Roots (C3) In in Tilled Soils (C6) C7) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos	Wetland Hydrology Present? Yes No _X
Remarks:	

VEGETATION (Four Strata	-Use	scientific	names	of i	plants
AFORIGINA	I our otrata,	000	SOICHILIIC	Harrics	O. 1	Jidillo.

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30) 1. None		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant Species Across All Strata: 5 (B)
4.				
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)
				That Are OBL, FACW, or FAC: 60 (A/B)
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		T		OBL species x 1 =
		= Total Cov		FACW species x 2 =
50% of total cover:	20% of	f total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30)	-		E40	FACU species x 4 =
Baccharis halimifolia	5	Yes	FAC	UPL species x 5 =
Morella cerifera	5	Yes	FAC	
				Column Totals: (A) (B)
				Prevalence Index = B/A =
V				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
· 	10	= Total Cov	ior.	3 - Prevalence Index is ≤3.0¹
500/ 51/1 5				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% 6	r total cover		
lerb Stratum (Plot size: 30) Andropogon virginicus	40	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Solidago altissima	30	Yes	FACU	Definitions of Four Vegetation Strata:
Verbena brasiliensis	10	No	FAC	
Nothoscordum bivalve	5	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
Ambrosia artemisiifolia	5	No	FACU	height.
Ambrosia trifida	5	No	FAC	
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb - All herbaceous (non-woody) plants, regardless
X				of size, and woody plants less than 3.28 ft tall.
0				Woody vine – All woody vines greater than 3.28 ft in
1,				height.
2				
	85	= Total Cov	er	
50% of total cover: 42.5		f total cover		
Voody Vine Stratum (Plot size: 30)		10101 00101		
Rubus triviallis	5	Yes	FACU	
() 	_			
			$\overline{}$	
· ————————————————————————————————————				
				Market State Control of the Control
· · · · · · · · · · · · · · · · · · ·				Hydrophytic
	5	= Total Co	/er	Hydrophytic Vegetation Present? Yes X No

Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type ¹ _	Loc ²	Texture	Remarks
0-8	10YR 4/3	100	-0.00				Silt loam	
8-16	10YR 5/3	98	7.5YR 4/6	2	С	М	Silt loam	
Histoso Histoso Histic E Black F Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Sandy F Sandy F Sandy F Sandy F Stripper Dark St Restrictive	Concentration, D=Del Indicators: (Applie I (A1) pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) e Bodies (A6) (LRR F ucky Mineral (A7) (L resence (A8) (LRR P, T) d Below Dark Surface ark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, 3 Layer (if observed)	cable to all I P, T, U) RR P, T, U) J) ce (A11) MLRA 150A LRR O, S) S, T, U)	RRs, unless other Polyvalue B Thin Dark S Loamy Mucl Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr Marl (F10) (Depleted Or Iron-Mangar Umbric Surf Reduced Ve	erwise no elow Surface (SS ky Mineral red Matrix atrix (F3) Surface (ark Surface ressions (F LRR U) chric (F11) nese Mass face (F13) c (F17) (M ertic (F18)	ted.) ace (S8) (L B) (LRR S, (F1) (LRF (F2) F6) e (F7) F8) (MLRA 1: Ses (F12) ((LRR P, T LRA 151) (MLRA 1: Soils (F19)	51) LRR O, P , U) (MLRA 1	Indicators for U)	t Material (TF2) bw Dark Surface (TF12) lain in Remarks) s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.

Project/Site: One Acadiana, Allen Estates North Tract	City/County: lowa/Jefferson	Davis Sa	ampling Date: 2-8-17
Applicant/Owner: One Acadiana	s	tate: LA Sa	ampling Point: 7
Investigator(s): C. Hoffpauir	Section, Township, Range: Se	ct. 26, Town. 9 S	outh, Range 6 West
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, r		
Subregion (LRR or MLRA): LRR-T Lat:			Datum: UTM NAD 83
Soil Map Unit Name: Mowata silt loam (MtA)		NWI classification	
Are climatic / hydrologic conditions on the site typical for this time. Are Vegetation No , Soil No , or Hydrology No significant site vegetation No , Soil No , or Hydrology No natural SUMMARY OF FINDINGS – Attach site map should be supported by the site of	cantly disturbed? Are "Normal ally problematic? (If needed, ex	Circumstances" pres	sent? Yes X No n Remarks.)
Hydrophytic Vegetation Present? Yes	Is the Sampled Area within a Wetland?	Yes	No X
Historical Agriculture Field Recent Rainfall in Area.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicator	s (minimum of two required)
Saturation (A3)	s (B15) (LRR U) Ilfide Odor (C1) zospheres along Living Roots (C3) Reduced Iron (C4) Reduction in Tilled Soils (C6)	Drainage Patter Moss Trim Lines Dry-Season Wa Crayfish Burrow Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te	s (B16) Iter Table (C2) Is (C8) Ile on Aerial Imagery (C9) Sition (D2) d (D3)
Field Observations: Surface Water Present? Yes No _X Depth (i Water Table Present? Yes No _X Depth (i Saturation Present? Yes No _X Depth (i (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeria	nches): Wetland H	ydrology Present? able:	Yes No X
Remarks:			

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

2.

50% of total cover: 5

= Total Cover

10 __ = Total Cover

_ 20% of total cover: 2

Yes

Yes

Yes

No

85 __ = Total Cover

20

__ 20% of total cover: 17

= Total Cover

20% of total cover: 4

Present?

FAC

FACU

FACU

FACW

40

20

20

5

50% of total cover: _____ 20% of total cover: ____

Tree Stratum (Plot size: 30

Sapling/Shrub Stratum (Plot size: 30

1. Baccharis halimifolia

Herb Stratum (Plot size: 30

1. Andropogon virginicus

3. Eupatorium capillifolium

4. Andropogon glomeratus

5.

11.

1. Rubus triviallis

2. Solidago altissima

2.

1. None

Sampling Point: 7 Dominance Test worksheet: Absolute Dominant Indicator % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 40 Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = _____ UPL species _____ x 5 = ____ Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% __ 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes ____ No X

Remarks: (If observed,	IIST	morphological	adaptations	per	DW.)
------------------------	------	---------------	-------------	-----	-----	---

Woody Vine Stratum (Plot size: 30)

6. _____

10. _____ ___ _____

50% of total cover: 42.5

50% of total cover: 10

		7
Sampling	Point:	ı

Depth	Cription: (Describe Matrix	to the dep		ment the x Feature		or confirm	n the absence of in	Remarks	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks	
0-7	10YR 4/3	100			· 		Silt loam		
7-11	10YR 5/3	100	- From 1400	-	-	-	Silt loam		
11-16	10YR 5/3	95	7.5YR 4/6	5	С	<u>M</u>	Silt Loam		
Hydric Soil Histoso Histic E Black H Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F Sandy I Sandy I Stripped	Indicators: (Appli	P, T, U) RR P, T, U J) Ce (A11) MLRA 150 (LRR O, S)	Redox Depre	rwise novelow Surface (SS y Mineral ed Matrix trix (F3) Surface (rk Surface (sssions (F11) ese Massace (F13) (F17) (Mrtic (F18) bodplain Spoodplain Spoodplain Surface (F18)	ted.) ace (S8) (LRR S, (F1) (LRR (F2) F6) e (F7) F8) (MLRA 1 Ges (F12) ((LRR P, T LRA 151) (MLRA 15 Goils (F19)	ERR S, T, T, U) R O) 51) LRR O, P T, U) 60A, 150B (MLRA 1	Indicators for P U)	Material (TF2) w Dark Surface (TF12) ain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.	
Type: Depth (ir emarks:	oches):						Hydric Soil Pres	ent? Yes No X	

Project/Site: One Acadiana, Allen Estates North Tract	City/County: Iowa/Jefferson Davis Sampling Date: 2-8-17
Applicant/Owner: One Acadiana	State: LA Sampling Point: 8
	Section, Township, Range: Sect. 26, Town. 9 South, Range 6 West
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 0-1
Subregion (LRR or MLRA): LRR-T Lat: 33	
Soil Map Unit Name: Crowley-Vidrine complex (CrA)	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation No , Soil No , or Hydrology No significa	
Are Vegetation No , Soil No , or Hydrology No naturall	
	ring sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X Remarks:	
Historical Agriculture Field	
Recent Rainfall in Area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	ply) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna	
High Water Table (A2) Harl Deposits	스 (2017년 1일 전) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Saturation (A3) Hydrogen Sulfi	[20. 2] - [20.
[]	ospheres along Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
[1]	eduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Sur	[4] [1] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
☐ Iron Deposits (B5) ☐ Other (Explain	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inc	:hes):
Water Table Present? Yes No X Depth (incomplete Saturation Present? Yes No X Depth (incomplete Saturation Present?	
Saturation Present? Yes No X Depth (includes capillary fringe)	wetland Hydrology Present? Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous inspections), if available:
Remarks:	

VEGETATION	(Four Strata) -	Use scientific nan	nes of plants.

Sampling Point: 8 Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 30 % Cover Species? Status Number of Dominant Species 1. None That Are OBL, FACW, or FAC: _ (A) Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: _ (A/B) Prevalence Index worksheet: 7. Total % Cover of: Multiply by: OBL species _____ x 1 = _____ = Total Cover FACW species _____ x 2 = _____ 50% of total cover: ____ ____ 20% of total cover: ___ FAC species _____ x 3 = ____ Sapling/Shrub Stratum (Plot size: 30 ____) FACU species _____ x 4 = _____ 1. None UPL species _____ x 5 = _____ 2. Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = ___ Hydrophytic Vegetation Indicators: __ 1 - Rapid Test for Hydrophytic Vegetation __ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ = Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: _____ 20% of total cover: Herb Stratum (Plot size: 30 ____) ¹Indicators of hydric soil and wetland hydrology must 1. Verbena brasiliensis be present, unless disturbed or problematic. 2. Eupatorium capillifolium 30 Yes **FACU** Definitions of Four Vegetation Strata: 3. Solidago altissima 10 No **FACU** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 4. Andropogon glomeratus 2 No **FACW** more in diameter at breast height (DBH), regardless of 5. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 10. _____ Woody vine - All woody vines greater than 3.28 ft in 11._____ height. 85 = Total Cover ___ 20% of total cover: 17 50% of total cover: 42.5 Woody Vine Stratum (Plot size: 30) 1. Rubus triviallis 2. Hydrophytic 30 ___ = Total Cover Vegetation Yes ____ No X Present? 50% of total cover: 15 20% of total cover: 6 Remarks: (If observed, list morphological adaptations below).

Sampling Point: 8

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Depth	cription: (Describ Matrix	e to the depth		ment the i		or confir	m the absence of ir	ndicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 4/1	100					Silt loam	
8-16	10YR 4/3	100					Silt loam	
Hydric Soil Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu	oipedon (A2)	P, T, U)		erwise note elow Surfa urface (S9) ky Mineral ed Matrix (atrix (F3) Surface (F ark Surface	ed.) ce (S8) (L) (LRR S, (F1) (LRF F2) 6)	.RR S, T, T, U)	Indicators for I U)	Pore Lining, M=Matrix. Problematic Hydric Soils ³ : (A9) (LRR O) (A10) (LRR S) ertic (F18) (outside MLRA 150A,B) floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) t Material (TF2) ow Dark Surface (TF12)
Thick Da Coast P Sandy M Sandy G Sandy F Stripped Dark Su Restrictive I	d Below Dark Surfa ark Surface (A12) rairie Redox (A16) flucky Mineral (S1) Bleyed Matrix (S4) dedox (S5) Matrix (S6) rface (S7) (LRR P, Layer (if observed	(MLRA 150A) (LRR O, S) S, T, U)	Delta Ochrid Reduced Ve	nese Mass ace (F13) (c (F17) (ML ertic (F18) (oodplain S	es (F12) ((LRR P, T LRA 151) (MLRA 15 coils (F19)	LRR O, P , U) 0A, 150B (MLRA 1	wetland unless o	s of hydrophytic vegetation and hydrology must be present, disturbed or problematic.
Type: Depth (in	ches):						Hydric Soil Pres	sent? Yes No X
Remarks:								



Photograph 1 Sample Plot 1



Photograph 2 General View of Plot 1



Photograph 3 Sample Plot 2



Photograph 4 General View of Plot 2



Photograph 5 Sample Plot 3



Photograph 6 General View of Plot 3



Photograph 7 Sample Plot 4



Photograph 8 General View of Plot 4



Photograph 9 Sample Plot 5



Photograph 10 General View of Plot 5



Photograph 11 Sample Plot 6



Photograph 12 General View of Plot 6



Photograph 13 Sample Plot 7



Photograph 14 General View of Plot 7



Photograph 15 Sample Plot 8



Photograph 16 General View of Plot 8



Photograph 17 Photo Location 7 Facing North



Photograph 18 Photo Location 8 Facing North



Photograph 19 Photo Location 9 Facing North



Photograph 20 Photo Location 10 Facing North



Photograph 21 Photo Location 11 Facing North



Photograph 22 Photo Location 12 Facing North



Photograph 23 Photo Location 13 Facing Northeast along Drain



Photograph 24
Photo Location 14 Facing North



Photograph 25 Photo Location 15 Facing North



Photograph 26 Photo Location 16 Facing North



Photograph 27 Photo Location 17 Facing North



Photograph 28
Photo Location 18 Facing North



Photograph 29 Photo Location 19 Facing South



Photograph 30 Photo Location 20 Facing West



Photograph 31 Photo Location 21 Facing North