Project/Site: 1461		City/County: Butler/Choctaw Sampling Date: 2019-12-16						
Applicant/Owner: NextEra			,	State: Alabama Sampling Point: UP2041				
Investigator(s): Tyler Russell	i, Tim Brust	Section	on, Township, Range					
Landform (hillslope, terrace, etc					Slope (%): 3			
Subregion (LRR or MLRA): P			Long		Datum: WGS 84			
Soil Map Unit Name: BnE2		Lat.	Long		tion:			
Are climatic / hydrologic conditi	ons on the site typical for	this time of year? V	es V No	(If no, explain in R				
Are Vegetation, Soil					resent? YesNo			
				•				
Are Vegetation, Soil				ed, explain any answe				
SUMMARY OF FINDING	iS – Attach site ma	ap snowing sam	ipling point loca	itions, transects	, important features, etc.			
Hydrophytic Vegetation Prese	ent? Yes	No	Is the Sampled Are	ea.				
Hydric Soil Present?		No	within a Wetland?		No			
Wetland Hydrology Present?	Yes	No						
Remarks: Upland sample associated with	h wetland W2040							
LIMPROLOGY.								
HYDROLOGY				Casandan India	to an (animinature of true an acciment)			
Wetland Hydrology Indicato		all that apply)		_	tors (minimum of two required)			
Primary Indicators (minimum of Surface Water (A1)				Surface Soil	getated Concave Surface (B8)			
High Water Table (A2)		atic Fauna (B13) Deposits (B15) (LRF	5 11/	Drainage Pa				
Saturation (A3)		rogen Sulfide Odor (C		Moss Trim Li				
Water Marks (B1)	— ·	ized Rhizospheres a	·		Water Table (C2)			
Sediment Deposits (B2)		ence of Reduced Iro		Crayfish Bur				
Drift Deposits (B3)	Rece	ent Iron Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		Geomorphic	Position (D2)			
Iron Deposits (B5)	<u> </u>	er (Explain in Remark	(s)	Shallow Aqu	tard (D3)			
Inundation Visible on Aer	• • • •			FAC-Neutral Test (D5)				
	9)				noss (D8) (LRR T, U)			
Field Observations:		5 " "						
Surface Water Present?	Yes No							
Water Table Present?	Yes No			d Hedeoleses Beese	40 V N-			
Saturation Present? (includes capillary fringe)	Yes No			nd Hydrology Preser	t? Yes No			
Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, pre	vious inspections), if	available:				
Remarks: Upland sample - No hydrology	present							

20.4		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	40		FAC	That Are OBL, FACW, or FAC: $\underline{2}$ (A)
2. Magnolia virginiana	10		FACW	Total Number of Dominant
3. Quercus falcata	5		FACU	Species Across All Strata: 5 (B)
4				Dersont of Deminant Charles
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
6				, , ,
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	/	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 28				FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 70 01	10101 00101		FAC species $\underline{55}$ $\times 3 = \underline{165}$
Liquetrum vulgaro	15	~	UPL	FACU species <u>25</u> x 4 = <u>100</u>
Quercus falcata	10		FACU	UPL species 15 x 5 = 75
	· —		1700	Column Totals: 105 (A) 360 (B)
3				(-)
4				Prevalence Index = $B/A = 3.4$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	25% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 13	20% of	total cover:	5	<u></u>
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1 Ilex vomitoria	15	~	FAC	be present, unless disturbed or problematic.
2 Kalmia latifolia	10		FACU	Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				g.m
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				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.
12				
	25% =	Total Cov	er	
50% of total cover: 13				
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
	=	Total Cov	er	Vegetation Present? Yes No
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo	ow).			1
No hydrophytic vegetation present	,			

Sampling Point: UP2041

SOIL Sampling Point: UP2041

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the	indicator	or confirn	n the absence of inc	dicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-6	7.5YR 4/3	100					Sandy loam		
6 - 20	7.5YR 4/4	100					Sandy loam		
				-					
-									
									_
	-	=							
1- 0.0							2, ,, ,		<u> </u>
	oncentration, D=De Indicators: (Appli					ains.		Pore Lining, M=Mat roblematic Hydric	_
Histosol		cable to all El	Polyvalue Be			RR S T I		A9) (LRR O)	, 00113 :
_	oipedon (A2)		Thin Dark Su					A10) (LRR S)	
· =	stic (A3)		Loamy Mucky					rtic (F18) (outside	MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19	
_	d Layers (A5)		Depleted Mat	. ,	-0)			Bright Loamy Soils	(F20)
	Bodies (A6) (LRR licky Mineral (A7) (L		Redox Dark S Depleted Dar	,	,		(MLRA 15	3B) Material (TF2)	
	esence (A8) (LRR		Redox Depre					v Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L	•	-,			in in Remarks)	/
	d Below Dark Surfa	ce (A11)	Depleted Och	, ,	•	•			
1 =	ark Surface (A12)	/III D 4 450 A \	Iron-Mangane					of hydrophytic veg	
ı =	rairie Redox (A16) lucky Mineral (S1)	` ,	Umbric Surfa Delta Ochric			, U)		nydrology must be sturbed or problem	
_	Gleyed Matrix (S4)	(LIXIX O, S)	Reduced Ver			0A. 150B)		sturbed or problem	auc.
	Redox (S5)		Piedmont Flo						
_	Matrix (S6)		Anomalous B	right Loa	my Soils (F20) (MLR	RA 149A, 153C, 153I	O)	
	rface (S7) (LRR P,								
Type: N/	Layer (if observed Δ):							
, , , 			<u></u>				Undria Cail Drag	-m42 V	No
Remarks:	ches):		_				Hydric Soil Pres	ent? Yes	_ No
No hydric soi	il present								
1									

Project/Site: 1461		City/C	ounty: Silas/C	Choctaw	Sampling Date: 2019-12-18
Applicant/Owner: NextEra					Sampling Point: UP2043/UP2044
Investigator(s): Tyler Russell,	Tim Brust	Section			
Landform (hillslope, terrace, etc.				convex, none): Convex	Slone (%)· 3
Subregion (LRR or MLRA): P	,. <u> </u>			Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: LnD2		_ Lat		NWI classifica	
Are climatic / hydrologic conditio	no on the cite tunical for t	this time of year? V	. V No		
Are Vegetation, Soil					
Are Vegetation, Soil	, or Hydrology	_ naturally problema	itic? (If r	needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS	S – Attach site ma	p showing sam	pling point	locations, transects	, important features, etc.
Hydrophytic Vegetation Preser	nt? Yes	No			
Hydric Soil Present?	Yes		Is the Sample		
Wetland Hydrology Present?	Yes		within a Wetla	and? Yes	No
Remarks:		l			
Upland sample associated with	wetland W2043 and W20	044			
HYDROLOGY					
Wetland Hydrology Indicator				_	tors (minimum of two required)
Primary Indicators (minimum o				Surface Soil	
Surface Water (A1)		tic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF		Drainage Pat	
Saturation (A3)	— ·	ogen Sulfide Odor (C	•	Moss Trim Li	,
Water Marks (B1)		zed Rhizospheres al ence of Reduced Iron		Crayfish Burr	Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		nt Iron Reduction in	, ,	=	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	Tilled Colls (CO	Geomorphic	
Iron Deposits (B5)		(Explain in Remark	s)	Shallow Aqui	,
Inundation Visible on Aeria		()	-,	FAC-Neutral	
Water-Stained Leaves (B9				Sphagnum m	noss (D8) (LRR T, U)
Field Observations:					
Surface Water Present?	Yes No D	Depth (inches):			
Water Table Present?	Yes No D	Depth (inches):			
Saturation Present?	Yes No D	Depth (inches):	N	etland Hydrology Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (streat	am gauge, monitoring wel	II, aerial photos, pre	vious inspection	ns), if available:	
,			·	,	
Remarks:					
Upland sample - No hydrology p	present				

00.11		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	30		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Ilex opaca	15		FAC	Total Number of Dominant
3. Quercus bicolor	5		FACW	Species Across All Strata: 4 (B)
4. Quercus falcata	5		FACU	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B
6				(782 mat/110 dB2,171011, d117101
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	55% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 28				FACW species 5 $x 2 = 10$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /0 01	total cover.		FAC species 50 $\times 3 = 150$
1. Ulmus alata	8	~	FACU	FACU species 13 x 4 = 52
a lley energy	5		FAC	UPL species $0 x 5 = 0$
2. Ilex opaca				Column Totals: 68 (A) 212 (B)
3				(1)
4				Prevalence Index = $B/A = \underline{3.1}$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	13% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7	20% of	total cover:	3	
Herb Stratum (Plot size: 30 ft r				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
				Deminions of Four Vogetation Chata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
4				more in diameter at breast height (DBH), regardless of height.
5				noight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				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.
12				
	=	Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2.				
3				
4				
5				Hydrophytic
	=	Total Cov	er	Vegetation Present? Yes No
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo	ow).			
No hydrophytic vegetation present	,			

Sampling Point: UP2043/UP2044

SOIL Sampling Point: UP2043/UP2044

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirn	n the absence of in	dicators.)	
Depth	Matrix			x Feature		- 3			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-6	7.5YR 4/3	100					Sandy loam		
6 - 20	7.5YR 4/4	100					Sandy loam		
-									
_									
<u> </u>									
	oncentration, D=De					ains.		Pore Lining, M=Mat	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless other	rwise not	ted.)		Indicators for F	Problematic Hydric	Soils ³ :
Histosol			Polyvalue Be		. , .				
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)	
Black Hi			Loamy Muck	-		R O)	777	ertic (F18) (outside	
	n Sulfide (A4)		Loamy Gleye		(F2)			loodplain Soils (F19	
_	d Layers (A5) Bodies (A6) (LRR I	D T II\	Depleted Ma Redox Dark	. ,	E6)		(MLRA 1	Bright Loamy Soils	(F2U)
_	icky Mineral (A7) (L		Depleted Dai	,	,		,	Material (TF2)	
	esence (A8) (LRR		Redox Depre					w Dark Surface (TF	12)
	ick (A9) (LRR P, T)		☐ Marl (F10) (L		٠,			ain in Remarks)	/
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		,	
	ark Surface (A12)		Iron-Mangan	ese Mass	ses (F12) (LRR O, P,	T) ³ Indicators	of hydrophytic vege	etation and
	rairie Redox (A16)		_			, U)		hydrology must be p	
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					isturbed or problem	atic.
	Gleyed Matrix (S4)		Reduced Ver						
	ledox (S5) Matrix (S6)		Piedmont Flo					D)	
	rface (S7) (LRR P ,	S T II)	Anomalous E	origini Loa	illy Solls (F20) (WILK	RA 149A, 153C, 153	D)	
	_ayer (if observed								
Type: N/	-	•							
, , —	ches):						Hydric Soil Pres	ent? Yes	No
Remarks:							,		
No hydric soi	l present								

Project/Site: 1461		City/Co	_{unty:} Silas	/Choctaw		Sampling Date: 2019-12-18
Applicant/Owner: NextEra						Sampling Point: UP2045
Investigator(s): Tyler Russell, Tim	Brust	Section	n, Township,	Range:		
Landform (hillslope, terrace, etc.): Upl	land	Local re	elief (concav	/e, convex, r	none): Convex	Slope (%): <u>3</u>
Subregion (LRR or MLRA): P	La				(b)(7)f	Datum: WGS 84
Soil Map Unit Name: LnD2				- J		tion:
Are climatic / hydrologic conditions on	the site typical for this	s time of year? Ye	s V	0 (
Are Vegetation, Soil, o						resent? YesNo
Are Vegetation, Soil, o	r Hydrologyn	aturally problemati	ic? (If needed, ex	xplain any answer	s in Remarks.)
SUMMARY OF FINDINGS - A	Attach site map s	showing samp	oling poir	nt locatio	ns, transects,	important features, etc.
Hydrophytic Vogetation Procent?	Voc. No.					
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	_	Is the Samp			
Wetland Hydrology Present?	Yes No		within a We	etland?	Yes	No
Remarks:						
Upland sample associated with wetla	nd W2045					
HYDROLOGY						
Wetland Hydrology Indicators:					Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one	is required; check all the	hat apply)			Surface Soil (Cracks (B6)
Surface Water (A1)	☐ Aquatic I	Fauna (B13)			Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)		posits (B15) (LRR	U)	•	Drainage Pat	
Saturation (A3)	Hydroge	en Sulfide Odor (C	1)		Moss Trim Lin	nes (B16)
Water Marks (B1)	U Oxidized	d Rhizospheres ald	ong Living R	oots (C3)	Dry-Season V	Vater Table (C2)
Sediment Deposits (B2)	Presence	e of Reduced Iron	(C4)		Crayfish Burn	ows (C8)
Drift Deposits (B3)	Recent I	ron Reduction in T	Filled Soils (26)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	ck Surface (C7)		;	Geomorphic I	, ,
Iron Deposits (B5)		xplain in Remarks	s)		Shallow Aquit	
Inundation Visible on Aerial Imag	gery (B7)			,	FAC-Neutral	,
Water-Stained Leaves (B9)				:	Sphagnum m	oss (D8) (LRR T, U)
Field Observations:	No Dep	oth (inches):				
	No Dep			Matlemal III	duala Duaa a	42 Vaa Na
Saturation Present? Yes _ (includes capillary fringe)	No Dep	otn (inches):		wetland H	yarology Presen	t? Yes No
Describe Recorded Data (stream gain	uge, monitoring well, a	aerial photos, previ	ious inspect	ions), if avai	lable:	
Remarks:						
Upland sample - No hydrology preser	п					

20.4		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species	
1. Pinus taeda	30		FAC	That Are OBL, FACW, or FAC: 3 (A)	
2. Ilex opaca	15		FAC	Total Number of Dominant	
3. Quercus bicolor	5		FACW	Species Across All Strata: 4 (B)	
4. Quercus falcata	5		FACU		
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/E	٥١
6.				That Ale OBL, I ACW, OI I AC. 10 (A/L	"
				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8	55% =	T-4-1 0		OBL species 0 $x 1 = 0$	
20		Total Cov		FACW species 5 x 2 = 10	
50% of total cover: <u>28</u>	20% of	total cover:		FAC species 50 x 3 = 150	
Sapling/Shrub Stratum (Plot size: 15 ft r)	_		E4011	FACU species 13 x 4 = 52	
1. Ulmus alata	8		FACU	UPL species 0 x 5 = 0	
2. Ilex opaca	5		FAC		
3				Column Totals: <u>68</u> (A) <u>212</u> (B)
4				Prevalence Index = B/A = 3.1	
5.				Hydrophytic Vegetation Indicators:	\dashv
6.					
7				1 - Rapid Test for Hydrophytic Vegetation	
8				<u>✓</u> 2 - Dominance Test is >50%	
0		Total Cov		3 - Prevalence Index is ≤3.0 ¹	
700/ - 54-4-1 7				Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 7	20% of	total cover:			
Herb Stratum (Plot size: 5 ft r)				¹ Indicators of hydric soil and wetland hydrology must	
1				be present, unless disturbed or problematic.	
2				Definitions of Four Vegetation Strata:	
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of	or.
4				more in diameter at breast height (DBH), regardless of	
5				height.	
6.				Sapling/Shrub – Woody plants, excluding vines, less	
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
				3 , , ,	
8				Herb – All herbaceous (non-woody) plants, regardless	S
9				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.	
12					
	=	Total Cov	er		
50% of total cover:	20% of	total cover:			
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3.					
4					
5				Hydrophytic	
		Total Cov		Vegetation Present? Yes No	
50% of total cover:	20% of	total cover:		1000111.	
Remarks: (If observed, list morphological adaptations below	ow).				
No hydrophytic vegetation present					

Sampling Point: UP2045

SOIL Sampling Point: UP2045

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the	indicator	or confirn	n the absence of inc	dicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-6	7.5YR 4/3	100					Sandy loam		
6 - 20	7.5YR 4/4	100					Sandy loam		
				-					
-									
									_
	-	=							
1- 0.0							2, ,, ,		<u> </u>
	oncentration, D=De Indicators: (Appli					ains.		Pore Lining, M=Mat roblematic Hydric	_
Histosol		cable to all El	Polyvalue Be			RR S T I		A9) (LRR O)	, 00113 :
_	oipedon (A2)		Thin Dark Su					A10) (LRR S)	
· =	stic (A3)		Loamy Mucky					rtic (F18) (outside	MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19	
_	d Layers (A5)		Depleted Mat	. ,	-0)			Bright Loamy Soils	(F20)
	Bodies (A6) (LRR licky Mineral (A7) (L		Redox Dark S Depleted Dar	,	,		(MLRA 15	3B) Material (TF2)	
	esence (A8) (LRR		Redox Depre					v Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Marl (F10) (L	•	-,			in in Remarks)	/
	d Below Dark Surfa	ce (A11)	Depleted Och	, ,	•	•			
1 =	ark Surface (A12)	/III D 4 450 A \	Iron-Mangane					of hydrophytic veg	
ı =	rairie Redox (A16) lucky Mineral (S1)	` ,	Umbric Surfa Delta Ochric			, U)		nydrology must be sturbed or problem	
_	Gleyed Matrix (S4)	(LIXIX O, S)	Reduced Ver			0A. 150B)		sturbed or problem	alic.
	Redox (S5)		Piedmont Flo						
_	Matrix (S6)		Anomalous B	right Loa	my Soils (F20) (MLR	RA 149A, 153C, 153I	O)	
	rface (S7) (LRR P,								
Type: N/	Layer (if observed Δ):							
, , , 			<u></u>				Undria Cail Drag	-m42 V	No
Remarks:	ches):		_				Hydric Soil Pres	ent? Yes	_ No
No hydric soi	il present								
1									

Project/Site: 1461		City/C	ounty: Silas/Chocta	w	Sampling Date: 2019-12-18		
Applicant/Owner: NextEra				State: Alabama	Sampling Point: UP2046/UP2047		
Investigator(s): Tyler Russell	I, Tim Brust	Section	on, Township, Range:				
Landform (hillslope, terrace, etc			·		Slope (%): 3		
Subregion (LRR or MLRA): P	5.). <u>- 1</u>			(b)(7)f	Datum: WGS 84		
Soil Map Unit Name: RbD2		_ Lat. (5)(1)	Long.				
•			V N-		tion:		
Are climatic / hydrologic condition				(If no, explain in R			
Are Vegetation, Soil							
Are Vegetation, Soil	, or Hydrology	naturally problema	itic? (If needed	, explain any answe	rs in Remarks.)		
SUMMARY OF FINDING	S - Attach site ma	ap showing sam	pling point locat	ions, transects	, important features, etc.		
Lludraphytic Vagatation Drace	ont? Voc	No					
Hydrophytic Vegetation Prese Hydric Soil Present?		No No	Is the Sampled Area	1			
Wetland Hydrology Present?		No	within a Wetland?	Yes	No		
Remarks:							
Upland sample associated with	h wetland W2046 and W2	2047					
HYDROLOGY							
Wetland Hydrology Indicato	ors:			Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum	of one is required; check	all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	Aqua	atic Fauna (B13)		☐ Sparsely Veg	getated Concave Surface (B8)		
High Water Table (A2)		Deposits (B15) (LRF	R U)	Drainage Par			
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)							
Water Marks (B1)	Oxid	ized Rhizospheres a	long Living Roots (C3)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Pres	ence of Reduced Iron	n (C4)	Crayfish Buri	rows (C8)		
Drift Deposits (B3)	Rece	ent Iron Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)		Geomorphic	Position (D2)		
Iron Deposits (B5)	U Othe	er (Explain in Remark	s)	Shallow Aqui	itard (D3)		
Inundation Visible on Aer	ial Imagery (B7)			FAC-Neutral	Test (D5)		
	9)			Sphagnum m	noss (D8) (LRR T, U)		
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?	Yes No						
Saturation Present?	Yes No	Depth (inches):	Wetland	Hydrology Presen	t? Yes No		
(includes capillary fringe) Describe Recorded Data (stre	am gauge, monitoring we	ell, aerial photos, pre	vious inspections), if a	vailable:			
Remarks:							
Upland sample - No hydrology	present						

20.4		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	30		FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus falcata3	10		FACU	Total Number of Dominant Species Across All Strata: 4 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				, , ,
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	40% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 20				FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 70 0.	total covor.		FAC species $\underline{35}$ $\times 3 = \underline{105}$
4. I limus alata	8	~	FACU	FACU species 18 x 4 = 72
a lley enges	5		FAC	UPL species $0 \times 5 = 0$
3	- —			Column Totals: <u>53</u> (A) <u>177</u> (B)
4				Prevalence Index = B/A = 3.3
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
_		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7 Herb Stratum (Plot size: 30 ft r)	20% of	total cover:	3	¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Turn Manda plants avaluation vince 2 in (7 C and) an
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than o in. BBH and greater than o.20 it (1 in) tail.
8				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 12.	·			height.
12.		Total Cov	er	
50% of total cover:				
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5				Hydrophytic
	=	: Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations below No hydrophytic vegetation present	ow).			

Sampling Point: UP2046/UP2047

SOIL Sampling Point: UP2046/UP2047

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	indicator	or confirm	the absence o	of indicato	ors.)	
Depth	Matrix			x Feature		. 2	- .			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>		Remarks	
0-6	7.5YR 4/4	_ 100 _					Sandy loam			
6 - 20	10YR 4/4	100					Sandy loam			
-										
	-						 -			
										_
1							2			
	oncentration, D=De Indicators: (Appli					ains.			ining, M=Matr matic Hydric	
Histosol		cable to all Li	Polyvalue Be		•	DD C T I		uck (A9) (L	-	Jons .
	oipedon (A2)		Thin Dark Su		. , .		_	uck (A9) (L uck (A10) (•	
	stic (A3)		Loamy Muck							MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		. , .	,				(LRR P, S, T)
_	d Layers (A5)		Depleted Mar	` ,				_	Loamy Soils	(F20)
	Bodies (A6) (LRR I		Redox Dark	•	,		_ ·	A 153B)	(===)	
	icky Mineral (A7) (L esence (A8) (LRR		Depleted Dar					rent Mater	ıal (TF2) < Surface (TF1	12)
	ick (A9) (LRR P, T)		Redox Depre		0)			Explain in F	•	12)
_	d Below Dark Surfa		Depleted Och	•	(MLRA 1	51)	(10	
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P,	T) ³ Indica	ators of hyd	drophytic vege	tation and
	rairie Redox (A16)		Umbric Surfa			', U)		-	ogy must be p	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			OA 450D)		ss disturbe	ed or problema	atic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver Piedmont Flo							
	Matrix (S6)						A 149A, 153C,	153D)		
_	rface (S7) (LRR P,	S, T, U)			(, (,		
	Layer (if observed):								
Type: N/	Α		_							
Depth (in	ches):						Hydric Soil I	Present?	Yes	No
Remarks:	I nunnant									
No hydric soi	ii present									
ĺ										l

Project/Site: 1461	City/County: Silas	s/Choctaw	Sampling Date: 2019-12-19
Applicant/Owner: NextEra		State: Alabama	· · · ·
Investigator(s): Tyler Russell, Tim Brust	Section, Township		
Landform (hillslope, terrace, etc.): Upland		ve, convex, none): Convex	Slone (%): 3
Subregion (LRR or MLRA): P Lat:	(b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BnE2			
Are climatic / hydrologic conditions on the site typical for this time of		NWI classificat	
Are Vegetation, Soil, or Hydrology significan			
Are Vegetation, Soil, or Hydrology naturally	oroblematic? (If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling poi	nt locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes No	Is the Sam		•/
Wetland Hydrology Present? Yes No	within a We	etland? Yes	No
Remarks:	_		
Upland sample associated with wetland W2048			
HYDROLOGY			
Wetland Hydrology Indicators:		_	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	-	Surface Soil (
Surface Water (A1) Aquatic Fauna (E			etated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Hydrogen Sulfide		<u> </u>	
	pheres along Living R	_	Vater Table (C2)
Sediment Deposits (B2) Presence of Red		Crayfish Burr	
	uction in Tilled Soils (- '	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Geomorphic I	
Iron Deposits (B5) Other (Explain in	Remarks)	Shallow Aquit	tard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		Sphagnum m	oss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inches			
Water Table Present? Yes No Depth (inches			
Saturation Present? Yes No Depth (inche (includes capillary fringe)	es):	Wetland Hydrology Present	t? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspect	ions), if available:	
Remarks: Upland sample - No hydrology present			
opiand sample - No flydrology present			

20.4		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	30		FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus falcata3	10		FACU	Total Number of Dominant Species Across All Strata: 4 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	40% =	Total Cov	er	OBL species $0 x 1 = 0$
50% of total cover: 20				FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 70 0.	total covor.		FAC species 35 $\times 3 = 105$
4. I limus alata	8	~	FACU	FACU species 18 x 4 = 72
a lley enges	5		FAC	UPL species $0 x 5 = 0$
3	- —			Column Totals: <u>53</u> (A) <u>177</u> (B)
4				Prevalence Index = B/A = 3.3
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
_		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7 Herb Stratum (Plot size: 30 ft r)	20% of	total cover:	3	¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				alamo ini 22m ana groater alamo 220 m (min) tam
8				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 2.29 ft in
11.				Woody vine – All woody vines greater than 3.28 ft in height.
12.				
		Total Cov	er	
50% of total cover:				
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3	·			
4				
5				Hydrophytic
	=	: Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations below hydrophytic vegetation present	ow).			

Sampling Point: UP2048

SOIL Sampling Point: UP2048

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the	indicator	or confirn	n the absence of in	dicators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-6	2.5Y 5/3	100			. ——		Sandy loam	
6 - 20	2.5Y 5/4	100					Sandy loam	
				-	·			
-								
-	-				· 			
1- 0.0							2, ,, ,	
	oncentration, D=De Indicators: (Appli					ains.		Problematic Hydric Soils ³ :
Histosol		cable to all Li	Polyvalue Be			RRSTI		(A9) (LRR O)
_	oipedon (A2)		Thin Dark Su				. –	(A10) (LRR S)
· =	stic (A3)		Loamy Mucky					ertic (F18) (outside MLRA 150A,I
_	en Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19) (LRR P, S, 1
_	d Layers (A5)		Depleted Mat	. ,	>			Bright Loamy Soils (F20)
	Bodies (A6) (LRR icky Mineral (A7) (L		Redox Dark S	,	,		(MLRA 15	Material (TF2)
	esence (A8) (LRR		Depleted Dar Redox Depre					w Dark Surface (TF12)
	ick (A9) (LRR P, T)		☐ Marl (F10) (L	•	٠,			ain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted Och	nric (F11)	(MLRA 1	51)		
1 =	ark Surface (A12)	/III DA 450A\	Iron-Mangane					of hydrophytic vegetation and
ı =	rairie Redox (A16) lucky Mineral (S1)	` ,	Umbric Surfa Delta Ochric			, U)		hydrology must be present, sturbed or problematic.
_	Gleyed Matrix (S4)	(LIXIX O, S)	Reduced Ver			0A. 150B)		sturbed of problematic.
	Redox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous B	right Loa	my Soils (F20) (MLR	RA 149A, 153C, 153	D)
	rface (S7) (LRR P,							
Type: N/	Layer (if observed Δ):						
, , , 							Undria Cail Drea	ent? Yes No ✔
Remarks:	ches):		_				nyuric Soil Pres	ent? Yes No
No hydric soi	il present							
1								

Project/Site: 1461	City/County:	Silas/Choctaw	Sampling Date: 2020-04-30
Applicant/Owner: NextEra		State: Alabama	
Investigator(s): Tyler Russell, Tim Brust	Section, Tow	nship, Range:	
Landform (hillslope, terrace, etc.): Upland	Local relief (c	concave, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P		Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: SmD			ation:
Are climatic / hydrologic conditions on the site typical for	r this time of year? Yes	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site m		point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No.		
Hydric Soil Present? Yes	No V	Sampled Area	
Wetland Hydrology Present? Yes	No 🗸 withir	n a Wetland? Yes	No
Remarks:			
Upland sample associated with wetland W2049			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	atic Fauna (B13)	_	getated Concave Surface (B8)
	1 Deposits (B15) (LRR U)	Drainage Pa	
Saturation (A3)	Irogen Sulfide Odor (C1)	☐ Moss Trim L	ines (B16)
☐ Water Marks (B1) ☐ Oxid	dized Rhizospheres along Liv	ving Roots (C3) ☐ Dry-Season	Water Table (C2)
Sediment Deposits (B2)	sence of Reduced Iron (C4)	☐ Crayfish Bur	rows (C8)
Drift Deposits (B3)	ent Iron Reduction in Tilled S	Soils (C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	n Muck Surface (C7)	☐ Geomorphic	Position (D2)
Iron Deposits (B5)	er (Explain in Remarks)	☐ Shallow Aqu	itard (D3)
☐ Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)		☐ Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
	Depth (inches):		
	Depth (inches):		,
Saturation Present? Yes No	Depth (inches):	Wetland Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge, monitoring w	vell, aerial photos, previous ir	spections), if available:	
Remarks: Upland sample - No hydrology present			
Spiana sample 146 hydrology present			

			Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species	
1. Pinus taeda	30		FAC	That Are OBL, FACW, or FAC: $\frac{2}{}$ (A	.)
2. Quercus falcata	10		FACU	Total Number of Dominant	
3				Species Across All Strata: 5 (B	i)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A	/B)
6.				markie obl., rkow, orrko.	<i>'</i> '''
7.				Prevalence Index worksheet:	
				Total % Cover of: Multiply by:	
8	40%			OBL species <u>0</u> x 1 = <u>0</u>	
20		Total Cov		FACW species $0 x 2 = 0$	
	20% of	total cover:	8	FAC species 35 x 3 = 105	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 28	
1. Quercus falcata	10		FACU		
2. Ulmus alata	8		FACU	UPL species $0 \times 5 = 0$	
3. Ilex opaca	5		FAC	Column Totals: <u>63</u> (A) <u>217</u> (B)
4.				Prevalence Index = B/A = 3.4	
5.					
				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8	000/			3 - Prevalence Index is ≤3.0 ¹	
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 12	20% of	total cover:	5		
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology mus	:t
1				be present, unless disturbed or problematic.	
2.				Definitions of Four Vegetation Strata:	
				Deminions of Four Vegetation Strata.	
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	
4				more in diameter at breast height (DBH), regardless	of
5				height.	
6				Sapling/Shrub – Woody plants, excluding vines, les	SS
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regardle	925
9				of size, and woody plants less than 3.28 ft tall.	55
10.					
11.				Woody vine – All woody vines greater than 3.28 ft i height.	n
· · ·				neight.	
12					
		Total Cov			
50% of total cover:	20% of	total cover:			
Woody Vine Stratum (Plot size: 30 ft r)					
1					
2					
3					
4					
5.				Hardwark atta	
o		Total Cov		Hydrophytic Vegetation	
				Present? Yes No	
500/ 51 1 1		total cover			
50% of total cover:	20% 01	total cover			

Sampling Point: UP2049

SOIL Sampling Point: UP2049

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of in	dicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-6	2.5Y 5/3	100			. 		Sandy loam		
6 - 20	2.5Y 6/3	100					Sandy loam		
				-	· <u></u>				
-									
-	-			-	· 				
1- 0.0							2, ,, ,		
	oncentration, D=De Indicators: (Appli					ains.		Pore Lining, M=Matrix. Problematic Hydric Soils ³ :	
Histosol		cable to all Li	Polyvalue Be			RRSTI		(A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su					(A10) (LRR S)	
· =	stic (A3)		Loamy Mucky					ertic (F18) (outside MLRA	150A,B)
_	en Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19) (LRR	P, S, T)
_	d Layers (A5)		Depleted Mat	, ,	-0)			Bright Loamy Soils (F20)	
	Bodies (A6) (LRR licky Mineral (A7) (L		Redox Dark S Depleted Dar	•	,		(MLRA 15	Material (TF2)	
	esence (A8) (LRR		Redox Depre		. ,			w Dark Surface (TF12)	
	ick (A9) (LRR P, T)		☐ Marl (F10) (L	•	-,			ain in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Och	nric (F11)	(MLRA 1	51)			
1 =	ark Surface (A12)	(III DA 450A)	Iron-Mangane					of hydrophytic vegetation a	
ı =	rairie Redox (A16) lucky Mineral (S1)	•	Umbric Surfa Delta Ochric			, U)		nydrology must be present, sturbed or problematic.	
_	Gleyed Matrix (S4)	(LIXIX 0, 3)	Reduced Ver			0A. 150B)		sturbed of problematic.	
	Redox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous B	right Loai	my Soils (F20) (MLR	RA 149A, 153C, 153I	D)	
	rface (S7) (LRR P,						1		
Type: N/	Layer (if observed Δ):							
, , , 							Undria Cail Drea	ant2 Vaa Na	~
Remarks:	ches):		_				Hydric Soil Pres	ent? Yes No _	
No hydric soi	il present								
1									

Project/Site: 1461 Lowman		City/C	ounty: Silas/Choctaw		Sampling Date: 2020-01-14
Applicant/Owner: NextEra				State: Alabama	Sampling Point: UP2050/UP2051/UP2052
Investigator(s): Tyler Russell, K	yle Price	Section	on, Township, Range:		
Landform (hillslope, terrace, etc.):					Slope (%): 3
	L			(b)(7)f	Datum: WGS 84
Soil Map Unit Name: SmD		at. The state of t	Long.		tion:
Are climatic / hydrologic conditions	s on the site typical for thi	s time of year? Y	es No	(If no, explain in R	emarks.)
Are Vegetation, Soil					
Are Vegetation, Soil				explain any answe	
SUMMARY OF FINDINGS					
Hydrophytic Vegetation Present?) Voc N	lo V			
Hydric Soil Present?	? Yes N Yes N	lo <u>'</u>	Is the Sampled Area		
Wetland Hydrology Present?	Yes N	lo	within a Wetland?	Yes	No
Remarks:	<u> </u>				
HYDROLOGY					
Wetland Hydrology Indicators:					tors (minimum of two required)
Primary Indicators (minimum of o				Surface Soil	
Surface Water (A1)		Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		posits (B15) (LRF		Drainage Pa	
Saturation (A3) Water Marks (B1)		en Sulfide Odor (C	long Living Roots (C3)	Moss Trim Li	nes (B16) Water Table (C2)
Sediment Deposits (B2)		ce of Reduced Iron		Crayfish Burn	
Drift Deposits (B3)		Iron Reduction in	, ,	_	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		ick Surface (C7)			Position (D2)
Iron Deposits (B5)		Explain in Remark	s)	Shallow Aqui	` ,
Inundation Visible on Aerial	Imagery (B7)			FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)				Sphagnum n	noss (D8) (LRR T, U)
Field Observations:					
	res No <u>✓</u> De				
	res No 🔽 De				
Saturation Present? Your (includes capillary fringe)	∕es No <u></u> De	pth (inches):	Wetland I	Hydrology Preser	t? Yes No
Describe Recorded Data (stream	n gauge, monitoring well,	aerial photos, pre	vious inspections), if ava	ailable:	
Remarks: Hydrology not present					

		ants.		Sampling Point: UP2050/UP205
ree Stratum (Plot size: 30 ft r)		Dominant Species?		Dominance Test worksheet:
llex opaca	30	Species?	FAC	Number of Dominant Species That Are OBL. FACW. or FAC: 2
Quercus alba	15		FACU	That Are OBL, FACW, or FAC: 2 (A
Pinus taeda	- 13		FAC	Total Number of Dominant
	0		170	Species Across All Strata: 4 (E
	0			Percent of Dominant Species
	$-\frac{0}{0}$			That Are OBL, FACW, or FAC: 50 (A
•	_ <u> </u>			Prevalence Index worksheet:
•	_ 0			Total % Cover of: Multiply by:
-	_ 0			OBL species $\frac{0}{x} = \frac{0}{x^2 + 1}$
		= Total Cov		FACW species $0 \times 2 = 0$
50% of total cover: 25	20% of	total cover	10	10
apling/Shrub Stratum (Plot size: 15 ft r)				00 400
Juniperus virginiana	15		FACU	
llex opaca	5		FAC	OFL species X 5 =
	0			Column Totals: <u>70</u> (A) <u>240</u> (
	0			Prevalence Index = B/A = 3.4
·	0			Hydrophytic Vegetation Indicators:
	0			
	0			1 - Rapid Test for Hydrophytic Vegetation
	0			☐ 2 - Dominance Test is >50%
	20%	= Total Cov	or .	☐ 3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 10		total cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Γ 4	20 /0 01	total cover	·	
	0			¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.
	$-\frac{0}{0}$			·
	$-\frac{\sigma}{0}$			Definitions of Four Vegetation Strata:
	$-\frac{0}{0}$			Tree – Woody plants, excluding vines, 3 in. (7.6 cm
	$-\frac{\sigma}{0}$			more in diameter at breast height (DBH), regardless height.
	$-\frac{0}{0}$			neight.
•	$-\frac{0}{0}$			Sapling/Shrub – Woody plants, excluding vines, les
	$-\frac{0}{0}$			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
-	_ <u> </u>			Herb – All herbaceous (non-woody) plants, regardle
	_ 0			of size, and woody plants less than 3.28 ft tall.
0	_ 0			Woody vine – All woody vines greater than 3.28 ft i
1	_ 0			height.
2	0			
	:	= Total Cov	er er	
50% of total cover:	20% of	total cover	:	
/oody Vine Stratum (Plot size: 30 ft r)				
	0			
	0			
	0			
	0			
	0			Hydrophydia
		= Total Cov	er	Hydrophytic Vegetation
			0.	
50% of total cover:		total cover		Present? Yes No

SOIL Sampling Point: UP2050/UP2051/UP2052

Profile Desc	cription: (Describe	to the depth	needed to docu	nent the i	indicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u> Remarks	
0 - 3	10YR 4/3	100					Loam	
3 - 8	10YR 5/4	100			• •		Loam	
8 - 20	7.5YR 4/6	100					Clay loam	
	7.511(4/0						Olay Idam	
-								
								_
	oncentration, D=De					ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to all LF	RRs, unless othe	rwise not	ed.)		Indicators for Problematic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue Be	low Surfa	ice (S8) (I	RR S, T, L	U)	
Histic E	oipedon (A2)		Thin Dark Su				2 cm Muck (A10) (LRR S)	
l ==	stic (A3)		Loamy Muck	-		R O)	Reduced Vertic (F18) (outside MLRA 15	
	en Sulfide (A4)		Loamy Gleye		(F2)		Piedmont Floodplain Soils (F19) (LRR P,	S, T)
	d Layers (A5)		Depleted Ma				Anomalous Bright Loamy Soils (F20)	
_	Bodies (A6) (LRR I		Redox Dark				(MLRA 153B)	
	icky Mineral (A7) (L		Depleted Da				Red Parent Material (TF2) Very Shallow Dark Surface (TF12)	
_	esence (A8) (LRR luck (A9) (LRR P, T)		Redox Depre	`	0)		Other (Explain in Remarks)	
_	d Below Dark Surfa		Depleted Oc	•	(MI RA 1	51)	Other (Explain in Remarks)	
	ark Surface (A12)	CC (A11)	Iron-Mangan				, T) ³ Indicators of hydrophytic vegetation and	١
l =	rairie Redox (A16) ((MLRA 150A)	Umbric Surfa				wetland hydrology must be present,	_
_	Mucky Mineral (S1)		Delta Ochric			, -,	unless disturbed or problematic.	
	Gleyed Matrix (S4)	-,-,	Reduced Ve			50A, 150B)	•	
	Redox (S5)		Piedmont Flo					
☐ Stripped	Matrix (S6)		Anomalous E	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 153D)	
Dark Su	rface (S7) (LRR P,	S, T, U)						
Restrictive	Layer (if observed):						
Type:								
Depth (in	ches):		<u></u>				Hydric Soil Present? Yes No	/
Remarks:								
Hydric soil no	ot present							

Project/Site: 1461 Lowman	City/County: Silas/Choo	etaw	Sampling Date: 2020-01-14
Applicant/Owner: NextEra	_ , ,	State: Alabama	Sampling Point: UP2053
Investigator(s): Tyler Russell, Kyle Price	Section, Township, Rang		
Landform (hillslope, terrace, etc.): Upland			Slope (%): 3
Subregion (LRR or MLRA): P Lat:			
Soil Map Unit Name: SmD	Lon		ation:
Are climatic / hydrologic conditions on the site typical for this time o	vear? Yes No	(If no, explain in R	
Are Vegetation, Soil, or Hydrology significal			
Are Vegetation, Soil, or Hydrology naturally		ded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showi			
			, •
Hydrophytic Vegetation Present? Yes No	Is the Sampled A	rea	
Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	within a Wetland	? Yes	No
Remarks:	_		
Upland sample associated with wetland W2053			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	ly)	Surface Soil	Cracks (B6)
Surface Water (A1)	B13)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (I	315) (LRR U)	Drainage Pa	tterns (B10)
Saturation (A3) Hydrogen Sulfic	e Odor (C1)	Moss Trim L	ines (B16)
Water Marks (B1) — Oxidized Rhizos	spheres along Living Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	, ,	Crayfish Bur	` '
	duction in Tilled Soils (C6)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	, ,	=	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain i	n Remarks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	,
Water-Stained Leaves (B9) Field Observations:		<u> </u>	noss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (incl	166).		
Water Table Present? Yes No Depth (inch			
Saturation Present? Yes No Depth (incl	,	and Hydrology Preser	nt? Yes No ✔
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial pl	otos, previous inspections),	if available:	
Remarks:			
Hydrology not present			

EGETATION (Four Strata) – Use scientific na	moo or pr	arito.		Sampling Point: UP2053
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant		Dominance Test worksheet:
1 Pinus taeda	35	Species? ✓	FAC	Number of Dominant Species That Are OBL FACW or FAC: 1 (A)
1. Finds tacad 2. Liriodendron tulipifera	25	<u> </u>	FACU	That Are OBL, FACW, or FAC: 1 (A)
			FAC	Total Number of Dominant
3. Quercus nigra	5		FAC	Species Across All Strata: 3 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 33 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	65% =	Total Cov	er	OBL species $\frac{0}{2}$ $x = \frac{0}{2}$
50% of total cover: <u>33</u>	20% of	total cover:	13	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species 40 $\times 3 = 120$
Liriodendron tulipifera	10	v	FACU	FACU species <u>35</u> x 4 = <u>140</u>
··	0			UPL species $0 \times 5 = 0$
2	0			Column Totals: <u>75</u> (A) <u>260</u> (B)
3	0			
4	0			Prevalence Index = $B/A = 3.5$
5	<u> </u>			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	10% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% of	total cover:	2	Troblematio Tryarophytio Vogotation (Explain)
Herb Stratum (Plot size: 5 ft r)				Indicators of hydric coil and watland hydrology must
1.	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
	0			Deminions of Four Vegetation Strata.
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of height.
5	0			neight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12.	0			
		Total Cov	er	
50% of total cover:		total cover:		
Woody Vine Stratum (Plot size: 30 ft r)	20 /0 0.	10101 00101	· 	
	0			
1	0			
2	0			
3	0			
4	0			
5	<u>U</u>			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
50% of total cover: Remarks: (If observed, list morphological adaptations belo Hydrophytic vegetation not present	20% of			Present? Yes No

SOIL Sampling Point: UP2053

Profile Des	cription: (Describ	e to the depth	needed to docur	nent the	indicator	or confirm	n the absence of in	dicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remark	(S
0-2	10YR 4/2	100					Loamy sand		
2 - 10	2.5Y 5/3	100					Sand		
10 - 20	2.5Y 6/3	100					Sand		
_									
					-				
				· ———	· ———				
	-								
	oncentration, D=De					ains.		Pore Lining, M=M	
I	Indicators: (Appl	icable to all LF			•		Indicators for P	-	ric Soils ³ :
Histosol	, ,		Polyvalue Be		. , .		· —	A9) (LRR O)	
_	pipedon (A2)		Thin Dark Su					A10) (LRR S)	
_	istic (A3)		Loamy Muck	•	. , .	R (O)			le MLRA 150A,B)
_	en Sulfide (A4) d Layers (A5)		Loamy Gleye		(FZ)			Bright Loamy Soi	19) (LRR P, S, T)
_	Bodies (A6) (LRR	D T III	Redox Dark	` '	F6)		(MLRA 15	•	IS (F20)
	ucky Mineral (A7) (I		Depleted Dai	,	,		, ·	Material (TF2)	
	resence (A8) (LRR		Redox Depre					v Dark Surface (1	ΓF12)
	uck (A9) (LRR P, T		Marl (F10) (L		,			in in Remarks)	,
_	d Below Dark Surfa		Depleted Ocl	nric (F11)	(MLRA 1	51)			
1 	ark Surface (A12)		Iron-Mangan	ese Mass	ses (F12) (LRR O, P,		of hydrophytic ve	-
_	rairie Redox (A16)	•	Umbric Surfa			', U)		ydrology must be	•
_	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or proble	matic.
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5) d Matrix (S6)		Piedmont Flo				49A) RA 149A, 153C, 153I	. \	
	irface (S7) (LRR P,	S T U)	Anomalous L	nigiit Loa	illy Solis (1 20) (WILF	A 149A, 193C, 1931	2)	
	Layer (if observed								
Type:	·	•							
, , , <u> </u>	ches):						Hydric Soil Pres	ent? Yes	No 🗸
Remarks:							,		
No Hydric so	oil present								

Project/Site: 1461 Lowman	City/C	county: Silas/Choctaw	Sampling Date: 2020-01-15
Applicant/Owner: NextEra	,	State: Alaba	ma Sampling Point: UP2054
Investigator(s): Tyler Russell, Kyle Price	e Section	on, Township, Range:	<u> </u>
Landform (hillslope, terrace, etc.): Upland		relief (concave, convex, none): Conv	ex Slope (%): 3
Subregion (LRR or MLRA): P		Long: (b)(7)f	
Soil Map Unit Name: OkA			sification:
Are climatic / hydrologic conditions on the	site typical for this time of year? Y		
Are Vegetation, Soil, or Hyd	• • • • • • • • • • • • • • • • • • • •		
Are Vegetation, Soil, or Hyd			
SUMMARY OF FINDINGS – Atta			
Hadron by the Manager transfer	Van Na W	<u> </u>	· · ·
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	Is the Sampled Area	
Wetland Hydrology Present?	Yes No	within a Wetland? Yes _	No
Remarks:			
Upland sample associated with wetland W	V2054		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Ir	dicators (minimum of two required)
Primary Indicators (minimum of one is rec	guired: check all that apply)		Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRF		e Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C		m Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres al		son Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron		Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6) Saturation	on Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	☐ Geomor	ohic Position (D2)
☐ Iron Deposits (B5)	Other (Explain in Remark	(s) Shallow	Aquitard (D3)
☐ Inundation Visible on Aerial Imagery	(B7)	FAC-Ne	utral Test (D5)
☐ Water-Stained Leaves (B9)		☐ Sphagnu	ım moss (D8) (LRR T, U)
Field Observations:			
	_ No _ 🖊 Depth (inches):		
1	_ No _ V Depth (inches):		
Saturation Present? Yes (includes capillary fringe)	No V Depth (inches):	Wetland Hydrology Pro	esent? Yes No
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pre-	vious inspections), if available:	
Remarks:			
Hydrology not present			

EGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point: UP2054
00%	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Ostrya virginiana	25		FACU	That Are OBL, FACW, or FAC: 3 (A)
2. Carpinus caroliniana	20		FAC	Total Number of Dominant
3. Quercus alba	10		FACU	Species Across All Strata: 5 (B)
4	0			
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)
6.	0			matric obe, thow, of the
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
0	55%	Total Cov	·or	OBL species 0 x 1 = 0
500/ of total annum 28				FACW species $0 \times 2 = 0$
	20% of	total cover:	·	FAC species 40 x 3 = 120
Sapling/Shrub Stratum (Plot size: 15 ft r)	15	~	FAC	FACU species 45 x 4 = 180
1. Carpinus caroliniana	15		FACU	UPL species 0 $x = 0$
2. Ostrya virginiana	10		FACU	Column Totals: 85 (A) 300 (B)
3	0			(A) (D)
4	0			Prevalence Index = $B/A = 3.5$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0¹
	25%	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 13	20% of	total cover:	5	Froblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5 ft r)				1
1 Ilex vomitoria	5	~	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0	<u> </u>		Definitions of Four Vegetation Strata:
2	0			Definitions of Four Vegetation Strata.
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	- 0			more in diameter at breast height (DBH), regardless of height.
5	$-\frac{0}{0}$			neight.
6	- <u> </u>			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	5% :	= Total Cov	er	
50% of total cover: 3	20% of	total cover:	1	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0		•	
	0			
3	0			
4	0		•	
5	- —			Hydrophytic
		= Total Cov		Vegetation Present? Yes No
50% of total cover:		total cover:	·	· · · · · · · · · · · · · · · · · · ·
Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation not present	ow).			

SOIL Sampling Point: UP2054

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the	indicator	or confirm	the absence of in	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 2/2	100					Loamy sand		
3 - 10	10YR 3/4	100					Sand		
10 - 20	2.5Y 4/4	100					Sand		
_									
				-					
l ——					· ——				
<u> </u>	-			· 	· ——				
	oncentration, D=De					ains.		Pore Lining, M=Ma	
l <u> </u>	Indicators: (Appli	cable to all LF			•			roblematic Hydri	c Soils*:
Histosol			Polyvalue Be		. , .			(A9) (LRR O)	
_	oipedon (A2) stic (A3)		Thin Dark Su Loamy Muck					(A10) (LRR S) ertic (F18) (outside	MI DA 150A B)
_	en Sulfide (A4)		Loamy Gleye		. , .	(0)		oodplain Soils (F1	
_	d Layers (A5)		Depleted Mat		·· - /			Bright Loamy Soils	
_	Bodies (A6) (LRR	P, T, U)	Redox Dark	Surface (F	- 6)		(MLRA 15	•	` ,
	ıcky Mineral (A7) (I		Depleted Dar	k Surface	e (F7)			Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			w Dark Surface (TF	⁻ 12)
_	ick (A9) (LRR P, T)		Marl (F10) (L	•	(MI D : 1	F4\	U Other (Expla	ain in Remarks)	
· =	d Below Dark Surfa ark Surface (A12)	ce (A11)	Depleted Och Iron-Mangan	, ,	•	•	T) ³ Indicators	of hydrophytic veg	otation and
1 	rairie Redox (A16)	(MI RA 150A)	Umbric Surfa					nydrology must be	
	fucky Mineral (S1)	•	Delta Ochric			, •,		sturbed or problem	
_	Gleyed Matrix (S4)	. ,	Reduced Ver			0A, 150B)		·	
☐ Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	I9A)		
_	Matrix (S6)		Anomalous E	right Loa	my Soils (F20) (MLR	A 149A, 153C, 153	D)	
	rface (S7) (LRR P,						1		
	Layer (if observed):							
Type:			<u>—</u>					10 11	
	ches):		<u> </u>				Hydric Soil Pres	ent? Yes	_ No
Remarks: No Hydric so	il present								
l to riyano oo	ii procent								

Project/Site: 1461 Lowman		City/County: Silas	s/Choctaw	Sampling Date: 2020-01-15
Applicant/Owner: NextEra			State: Alabama	Sampling Point: UP2055/UP2056
Investigator(s): Tyler Russell, Kyle	Price	Section, Townshir	o, Range:	
Landform (hillslope, terrace, etc.): Up			ive, convex, none): Convex	Slope (%): 3
Subregion (LRR or MLRA): P				
Soil Map Unit Name: OkA				tion:
Are climatic / hydrologic conditions o	n the site typical for this time	e of year? Yes		
Are Vegetation, Soil,				
Are Vegetation, Soil,			(If needed, explain any answe	
SUMMARY OF FINDINGS -				
Hydrophytic Vegetation Present?	Ves No 1	_		
Hydric Soil Present?	Yes No	/ 10	•	
Wetland Hydrology Present?	Yes No	within a W	etland? Yes	No
Remarks:				
Upland sample associated with wetl	ands W2055 and W2056			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one	e is required; check all that a	pply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Faun	ıa (B13)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		s (B15) (LRR U)	Drainage Pa	tterns (B10)
Saturation (A3)	Hydrogen Su	Ifide Odor (C1)		nes (B16)
☐ Water Marks (B1)	Oxidized Rhiz	zospheres along Living F	Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Presence of F	Reduced Iron (C4)	☐ Crayfish Bur	rows (C8)
Drift Deposits (B3)	Recent Iron F	Reduction in Tilled Soils	(C6) Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Su	urface (C7)	☐ Geomorphic	Position (D2)
☐ Iron Deposits (B5)	Other (Explai	in in Remarks)	☐ Shallow Aqu	tard (D3)
Inundation Visible on Aerial Ima	agery (B7)		☐ FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)			Sphagnum n	noss (D8) (LRR T, U)
Field Observations:				
	S No 🔽 Depth (ir			
	S No 🔽 Depth (ir			
Saturation Present? Yes (includes capillary fringe)	S No 🔽 Depth (ir	nches):	Wetland Hydrology Preser	t? Yes No
Describe Recorded Data (stream ga	auge, monitoring well, aerial	photos, previous inspec	tions), if available:	
Remarks: Hydrology not present				

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Carpinus caroliniana	25		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Juniperus virginiana	20		FACU	Total Number of Dominant
3	0			Species Across All Strata: 6 (B)
4	0			Persont of Dominant Species
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	45% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 23	20% of	total cover:	9	FACW species $\underline{25}$ $\times 2 = \underline{50}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species <u>45</u> x 3 = <u>135</u>
1. Carpinus caroliniana	15	~	FAC	FACU species <u>45</u> x 4 = <u>180</u>
2. Juniperus virginiana	10		FACU	UPL species $0 \times 5 = 0$
	0			Column Totals: 115 (A) 365 (B)
3	0			
4	0			Prevalence Index = $B/A = 3.2$
5	0			Hydrophytic Vegetation Indicators:
6	- —			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			☐ 3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>13</u>	20% of	total cover:	5	
Herb Stratum (Plot size: 5 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Arundinaria tecta	25	V	FACW	be present, unless disturbed or problematic.
2. Fragaria virginiana	15	~	FACU	Definitions of Four Vegetation Strata:
3. Ilex vomitoria	5		FAC	Tree Meady plants avaluating vince 2 in (7.0 am) as
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Carling/Charle Woods plants evaluating since less
7.	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 3.20 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	- -			height.
12.	0			
		Total Cov		
50% of total cover: 23	20% of	total cover:	9	
Woody Vine Stratum (Plot size: 30 ft r)	_			
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
Hydrophytic vegetation not present	ov).			
Trydrophytic vegetation not present				

Sampling Point: UP2055/UP2056

SOIL Sampling Point: UP2055/UP2056

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirn	n the absence of in	dicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-5	7.5YR 2.5/3	_ 100 _					Loamy sand		
5 - 10	10YR 3/3	100					Sand		
10 - 20	10YR 3/4	100					Sand		
-									
	-								
				-					
1							2		
	oncentration, D=De Indicators: (Appli					ains.		Pore Lining, M=Matroblematic Hydric	
l <u> </u>		Cable to all Lr			•	DD C T I		-	Jouis .
Histosol	oipedon (A2)		Polyvalue Be Thin Dark Su		. , .		· —	(A9) (LRR O) (A10) (LRR S)	
_	stic (A3)		Loamy Muck					ertic (F18) (outside	MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye		. , .	,		oodplain Soils (F19	
Stratified	d Layers (A5)		Depleted Mar	trix (F3)			Anomalous	Bright Loamy Soils	(F20)
	Bodies (A6) (LRR I		Redox Dark	,	,		(MLRA 15	•	
	icky Mineral (A7) (L		Depleted Dar					Material (TF2)	740)
	esence (A8) (LRR I		Redox Depre		8)			w Dark Surface (TF ain in Remarks)	-12)
_	d Below Dark Surfa		Depleted Oct	•	(MLRA 1	51)	U Other (Expla	alli ili Kelliaiks)	
	ark Surface (A12)	,	Iron-Mangan	, ,	•	•	T) ³ Indicators	of hydrophytic veg	etation and
	rairie Redox (A16) (Umbric Surfa	ce (F13)	(LRR P, T	, U)	wetland h	nydrology must be	present,
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problem	natic.
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5) Matrix (S6)		Piedmont Flo				1 9A) RA 149A, 153C, 153I	חו	
_	rface (S7) (LRR P ,	S. T. U)	Anomalous L	nigrit Lua	illy Solis (1 20) (WILK	A 149A, 1930, 1931	5)	
	Layer (if observed)								
Type:			<u></u>						
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No 🗸
Remarks:									
No Hydric so	il present								

Project/Site: 1461 Lowman		City/County: Silas	/Choctaw	Sampling Date: 2020-01-15
Applicant/Owner: NextEra			State: Alabama	Sampling Point: UP2057
Investigator(s): Tyler Russell, Kyl	e Price	Section. Township	, Range:	
Landform (hillslope, terrace, etc.):			ve, convex, none): Convex	Slope (%)· 1
Subregion (LRR or MLRA): P			Long: (b)(7)f	
Soil Map Unit Name: OkA	Lat			tion:
Are climatic / hydrologic conditions	on the site typical for this time	of year? Ves V		
Are Vegetation, Soil				
Are Vegetation, Soil			If needed, explain any answe	
SUMMARY OF FINDINGS -	Attach site map show	ing sampling pol	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes No	ls the Sam	pled Area	
Hydric Soil Present?	Yes No	within a W		No 🗸
Wetland Hydrology Present?	Yes No			
Remarks: Upland sample associated with we	utland W2057 W2103 AND W	2104		
Opiana sample associated with we	liana W2007, W2100, AND W.	2104		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of on	ne is required; check all that ap	ply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna	(B13)	_	getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits	(B15) (LRR U)	Drainage Pa	tterns (B10)
Saturation (A3)	Hydrogen Sulf	ide Odor (C1)	Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidized Rhizo	ospheres along Living R	loots (C3) 🔲 Dry-Season '	Water Table (C2)
Sediment Deposits (B2)		educed Iron (C4)	Crayfish Buri	rows (C8)
Drift Deposits (B3)		eduction in Tilled Soils (C6) Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	☐ Thin Muck Sur	, ,	Geomorphic	, ,
Iron Deposits (B5)	<u></u> Other (Explain	in Remarks)	Shallow Aqui	
Inundation Visible on Aerial In	nagery (B7)		FAC-Neutral	()
Water-Stained Leaves (B9) Field Observations:			<u> </u>	noss (D8) (LRR T, U)
	es No 🖍 Depth (inc	chee).		
	es No _v Depth (inc			
	es No Depth (inc	,	Wetland Hydrology Presen	t? Yes No ✔
(includes capillary fringe)				
Describe Recorded Data (stream of	gauge, monitoring well, aerial p	ohotos, previous inspect	ions), if available:	
Remarks:				
Hydrology not present				

	ames of pl			Sampling Point: UP2057
70 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)				Dominance Test worksheet:
<u>Free Stratum</u> (Plot size: <u>30 ft r</u>) L Juniperus virginiana	% Cover 25	Species?	FACU	Number of Dominant Species
		<u> </u>	FAC	That Are OBL, FACW, or FAC: 1 (A)
Pinus taeda	15		FAC	Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
ł	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 25 (A/B)
5	0			
7	0			Prevalence Index worksheet:
3	0			Total % Cover of: Multiply by:
	40% :	Total Cov	er	OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$
50% of total cover: <u>20</u>	20% of	total cover:	8	FACW species $\frac{0}{45}$ x 2 = $\frac{0}{45}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{15}{3}$ $\times 3 = \frac{45}{3}$
Juniperus virginiana	10	~	FACU	FACU species 90 x 4 = 360
 2	0			UPL species <u>0</u> x 5 = <u>0</u>
 3	0			Column Totals: 105 (A) 405 (B)
	0			
ł	0			Prevalence Index = $B/A = 3.9$
5	0			Hydrophytic Vegetation Indicators:
S	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
3	- 			3 - Prevalence Index is ≤3.0 ¹
_		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:	2	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
Trifolium pratense	45		FACU	be present, unless disturbed or problematic.
Quercus alba	10		FACU	Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
ł	0			more in diameter at breast height (DBH), regardless of
5	0			height.
S	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3.	0			Harb All back account from weath Antarctan according
).	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	0			or olzo, and woody planto look than olzo it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12				
- 20		Total Cov		
	20% of	total cover:		
50% of total cover: 28				
Noody Vine Stratum (Plot size: 30 ft r)				
Noody Vine Stratum (Plot size: 30 ft r)	0			
Noody Vine Stratum (Plot size: 30 ft r)	0			
Noody Vine Stratum (Plot size: 30 ft r) 1	0 0			
Noody Vine Stratum (Plot size: 30 ft r) 1	0 0 0			
Noody Vine Stratum (Plot size: 30 ft r)	0 0			Hydrophytic
Noody Vine Stratum (Plot size: 30 ft r) 1	0 0 0 0	Total Cov		Hydrophytic Vegetation
Noody Vine Stratum (Plot size: 30 ft r)	0 0 0 0			

SOIL Sampling Point: UP2057

Profile Desc	ription: (Describ	e to the depth	needed to docun	nent the	indicator	or confirm	the absence of in	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 2/2	100					Loamy sand		
3 - 10	10YR 3/4	100					Sand		
10 - 20	2.5Y 4/4	100					Sand		
_									
				-					
l ——					· ——				
<u> </u>	-			· 	· ——				
	oncentration, D=De					ains.		Pore Lining, M=Ma	
l <u> </u>	Indicators: (Appli	cable to all LF			•			roblematic Hydri	c Soils*:
Histosol			Polyvalue Be		. , .			(A9) (LRR O)	
_	oipedon (A2) stic (A3)		Thin Dark Su Loamy Muck					(A10) (LRR S) ertic (F18) (outside	MI DA 150A B)
_	en Sulfide (A4)		Loamy Gleye		. , .	(0)		oodplain Soils (F1	
_	d Layers (A5)		Depleted Mat		·· - /			Bright Loamy Soils	
_	Bodies (A6) (LRR	P, T, U)	Redox Dark	Surface (F	- 6)		(MLRA 15	•	` ,
	ıcky Mineral (A7) (I		Depleted Dar	k Surface	e (F7)			Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			w Dark Surface (TF	⁻ 12)
_	ick (A9) (LRR P, T)		Marl (F10) (L	•	(MI D : 1	F4\	U Other (Expla	ain in Remarks)	
· =	d Below Dark Surfa ark Surface (A12)	ce (A11)	Depleted Och Iron-Mangan	, ,	•	•	T) ³ Indicators	of hydrophytic veg	otation and
1 	rairie Redox (A16)	(MI RA 150A)	Umbric Surfa					nydrology must be	
	fucky Mineral (S1)	•	Delta Ochric			, •,		sturbed or problem	
_	Gleyed Matrix (S4)	. ,	Reduced Ver			0A, 150B)		·	
☐ Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	I9A)		
_	Matrix (S6)		Anomalous E	right Loa	my Soils (F20) (MLR	A 149A, 153C, 153	D)	
	rface (S7) (LRR P,						1		
	Layer (if observed):							
Type:			<u>—</u>					10 11	
	ches):		<u> </u>				Hydric Soil Pres	ent? Yes	_ No
Remarks: No Hydric so	il present								
l to riyano oo	ii procent								

Project/Site: 1461 Lowman Applicant/Owner: NextEra Investigator(s): Tyler Russell, Kyle Price Landform (hillslope, terrace, etc.): Upland Subregion (LRR or MLRA): P Lat: Soil Map Unit Name: MdA Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation, Soil, or Hydrology sign Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map sh Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	ime of year? Yes nificantly disturbed? turally problematic?	State: Alabama o, Range: ave, convex, none): Convex Long: (b)(7)f	Datum: WGS 84 ation: emarks.) present? YesNo rs in Remarks.)
Landform (hillslope, terrace, etc.): Upland Subregion (LRR or MLRA): P Lat: Soil Map Unit Name: MdA Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation, Soil, or Hydrology sign Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map shape	Local relief (conca (b)(7)f ime of year? Yes	Long: (b)(7)f NWI classifica No (If no, explain in R Are "Normal Circumstances" p (If needed, explain any answe	Datum: WGS 84 ation: emarks.) present? YesNo rs in Remarks.)
Landform (hillslope, terrace, etc.): Upland Subregion (LRR or MLRA): P Lat: Soil Map Unit Name: MdA Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation, Soil, or Hydrology sign Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map shape	Local relief (conca (b)(7)f ime of year? Yes	Long: (b)(7)f NWI classifica No (If no, explain in R Are "Normal Circumstances" p (If needed, explain any answe	Datum: WGS 84 ation: emarks.) present? YesNo rs in Remarks.)
Subregion (LRR or MLRA): P Lat: Soil Map Unit Name: MdA Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation, Soil, or Hydrology sign Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map sh Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	ime of year? Yes nificantly disturbed? turally problematic?	Long: (b)(7)f	Datum: WGS 84 ation: emarks.) present? YesNo rs in Remarks.)
Soil Map Unit Name: MdA Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation, Soil, or Hydrology sign Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map sh Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	ime of year? Yes t nificantly disturbed? turally problematic?	NWI classifica No (If no, explain in R Are "Normal Circumstances" p (If needed, explain any answe	emarks.) present? YesNo rs in Remarks.)
Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation, Soil, or Hydrology sign Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map sh Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	nificantly disturbed? turally problematic?	No (If no, explain in R Are "Normal Circumstances" p (If needed, explain any answe	emarks.) present? YesNo rs in Remarks.)
Are Vegetation, Soil, or Hydrology sign Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map shaped the site of t	nificantly disturbed? turally problematic?	Are "Normal Circumstances" p (If needed, explain any answe	oresent? YesNonrs in Remarks.)
Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map sh Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _	turally problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map she Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _			
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _		int roodinono, transcotto	, important routaroo, otor
Hydric Soil Present? Yes No _			
Hydric Soil Present? Yes No Wetland Hydrology Present?	Is the San	npled Area	
I Weiland Hydrolody Present/	within a W	/etland? Yes	No <u> </u>
Remarks:			
Upland sample associated with wetlands W2058 and W2059			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that	at apply)	Surface Soil	Cracks (B6)
Surface Water (A1) Aquatic Fa	auna (B13)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2) Marl Depo	osits (B15) (LRR U)	Drainage Pa	iterns (B10)
1 	Sulfide Odor (C1)	Moss Trim Li	, ,
1 	, ,	-	, ,
		_	
	• •	=	` ,
	siam in resinance)	_	
Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth	1 (inches):		
Water Table Present? Yes No Depth	·		
	1 (inches):	Wetland Hydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, monitoring well, aer	rial photos, previous inspec	ctions), if available:	
Remarks: Hydrology not present			
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? Yes No Depth Water Table Present? Yes No Depth Saturation Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aer	sits (B15) (LRR U) Sulfide Odor (C1) Rhizospheres along Living Roof Reduced Iron (C4) on Reduction in Tilled Soils Surface (C7) plain in Remarks) n (inches):	Drainage Par Moss Trim Li Roots (C3) Dry-Season Crayfish Burn (C6) Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Sphagnum m	tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) noss (D8) (LRR T, U)

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	25		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Juniperus virginiana	10		FACU	Total Number of Dominant
3	0			Species Across All Strata: 7 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 43 (A/B
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	35% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 18	20% of	total cover:	7	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species <u>35</u> x 3 = <u>105</u>
1. Juniperus virginiana	10	~	FACU	FACU species <u>40</u> x 4 = <u>160</u>
2. Acer rubrum	5		FAC	UPL species $0 \times 5 = 0$
3. Celtis occidentalis	5		FACU	Column Totals: <u>75</u> (A) <u>265</u> (B)
· · ·	0			
4	0			Prevalence Index = $B/A = 3.5$
5	· —			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:	4	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Fragaria virginiana	15	'	FACU	be present, unless disturbed or problematic.
2. Ilex vomitoria	5		FAC	Definitions of Four Vegetation Strata:
3	0			Tree Meady plants avaluating vince 2 in (7.0 are)
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Continue/Charaka Manda and and and and and
7	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			g
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 3.20 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	- 			height.
12	0			
		Total Cov		
50% of total cover: 10	20% of	total cover:	4	
Woody Vine Stratum (Plot size: 30 ft r)	_			
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	= Total Cov	er	Vegetation
50% of total cover:		total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations beld				
Hydrophytic vegetation not present. 25 percent bare groun-	,	nnv		
Try dropriy no vogotation not procent. Le persont saite great	a, opon cane	' P')		

Sampling Point: UP2058/UP2059

SOIL Sampling Point: UP2058/UP2059

Profile Desc	cription: (Describe	e to the depth	needed to docui	nent the i	indicator	or confirm	m the absence of indicators.)	
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-5	10YR 2/2	100			·		Loamy sand	
5 - 13	10YR 4/4	100					Sand	
13 - 20	10YR 4/6	100					Sand	
				-	·			_
-								
¹Type: C=C	oncentration, D=De	nletion RM=R	educed Matrix M	S=Masked	Sand Gr	ains	² Location: PL=Pore Lining, M=Matrix.	
	Indicators: (Appli	•				<u> </u>	Indicators for Problematic Hydric Soils ³ :	
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (I	RR S. T. L	U) 1 cm Muck (A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su				2 cm Muck (A10) (LRR S)	
	stic (A3)		Loamy Muck				Reduced Vertic (F18) (outside MLRA 1504	A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)		Piedmont Floodplain Soils (F19) (LRR P, S	, T)
	d Layers (A5)		Depleted Ma					
	Bodies (A6) (LRR		Redox Dark				(MLRA 153B)	
_	icky Mineral (A7) (L		Depleted Da				Red Parent Material (TF2)	
_	esence (A8) (LRR		Redox Depre	`	8)		Very Shallow Dark Surface (TF12)	
_	ıck (A9) (LRR P, T) d Below Dark Surfa		Depleted Oc	•	(MI RA 1	51)	U Other (Explain in Remarks)	
	ark Surface (A12)	00 (711)	Iron-Mangan				, T) ³ Indicators of hydrophytic vegetation and	
l ===	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa				wetland hydrology must be present,	
_	Mucky Mineral (S1)		Delta Ochric				unless disturbed or problematic.	
Sandy C	Sleyed Matrix (S4)		Reduced Ve	rtic (F18) (MLRA 1	50A, 150B))	
	Redox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous E	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 153D)	
	rface (S7) (LRR P,						1	
	Layer (if observed):						
Type:								
Depth (in	ches):						Hydric Soil Present? Yes No	
Remarks:	il propont							
No Hydric so	iii present							

Project/Site: 1461 Lowman	City/Co	unty: Silas/Choctaw		Sampling Date: 2020-01-15
Applicant/Owner: NextEra				Sampling Point: UP2060
Investigator(s): Tyler Russell, Kyle Price	Section	ı, Township, Range:		
Landform (hillslope, terrace, etc.): Upland				Slope (%): 2
Subregion (LRR or MLRA): P			(b)(7)f	Datum: WGS 84
Soil Map Unit Name: MdA	Lut	Long.	NWI classifica	
Are climatic / hydrologic conditions on the site typical for	or this time of year? Vo	· No		
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology			explain any answe	
SUMMARY OF FINDINGS – Attach site m	ap showing samp	oling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No 🗸	Is the Sampled Area		
Hydric Soil Present? Yes		within a Wetland?	Vas	No
Wetland Hydrology Present? Yes	No V	within a Wetland:	163	
Remarks:				
Upland sample associated with wetlands W2060				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check	k all that apply)		Surface Soil	
	uatic Fauna (B13)			getated Concave Surface (B8)
	rl Deposits (B15) (LRR	U)	Drainage Pat	
	drogen Sulfide Odor (C1		Moss Trim Li	
	idized Rhizospheres alo			Water Table (C2)
Sediment Deposits (B2)	esence of Reduced Iron	(C4)	Crayfish Burr	rows (C8)
	cent Iron Reduction in T	filled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
	n Muck Surface (C7)		_	Position (D2)
	ner (Explain in Remarks))	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral	
Water-Stained Leaves (B9) Field Observations:		<u> </u>	Spnagnum m	noss (D8) (LRR T, U)
	Depth (inches):			
	Depth (inches):			
	Depth (inches):		lydrology Presen	t? Yes No ✔
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previ	ous inspections), if ava	ilable:	
Remarks:				
Hydrology not present				

7. 0. 1. 20 ft r		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)		Species?	Status FAC	Number of Dominant Species	
1. Pinus taeda	25			That Are OBL, FACW, or FAC: 2 (A	۹)
Quercus falcata	- 15 0		FACU	Total Number of Dominant Species Across All Strata: 6 (E	B)
4.	0			Species Across Air Strata.	رد
5	0			Percent of Dominant Species That Are OBL_FACW_or FAC: 33	
	0			That Are OBL, FACW, or FAC: 33 (A	A/B)
6	0			Prevalence Index worksheet:	
7	0			Total % Cover of: Multiply by:	
8	100/	Total Cov		OBL species $0 x 1 = 0$	
500% of total account 20				FACW species $0 \times 2 = 0$	
50% of total cover: 20	20% of	total cover:		FAC species 45 x 3 = 135	
Sapling/Shrub Stratum (Plot size: 30 ft r) 1. Ilex opaca	15	~	FAC	FACU species 45 x 4 = 180	
2. Juniperus virginiana	5		FACU	UPL species $0 x 5 = 0$	
	0		17.00	00 045	(B)
3	0				` '
4	0			Prevalence Index = $B/A = 3.5$	
5	· —			Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8	0			3 - Prevalence Index is ≤3.0 ¹	
40		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)	
50% of total cover: 10	20% of	total cover:	4		
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology mus	st
1. Fragaria virginiana	15		FACU	be present, unless disturbed or problematic.	
2. Lonicera japonica	10		FACU	Definitions of Four Vegetation Strata:	
3. Ilex vomitoria	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
4	0			more in diameter at breast height (DBH), regardless	
5	0			height.	
6	0			Sapling/Shrub – Woody plants, excluding vines, le	ess
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8	0			Herb – All herbaceous (non-woody) plants, regardle	222
9	0			of size, and woody plants less than 3.28 ft tall.	033
10.	0			Manday in All was divising a master than 2.20 ft	
11.	0			Woody vine – All woody vines greater than 3.28 ft height.	III
12.	0				
	30% =	Total Cov	er		
50% of total cover: 15		total cover:			
Woody Vine Stratum (Plot size: 30 ft r)	0				
1	0				
2	0				
3	0				
4	0				
5				Hydrophytic	
	=	Total Cov	er	Vegetation Present? Yes No✓_	
50% of total cover:	20% of	total cover:		riesent: iesNo	
Remarks: (If observed, list morphological adaptations beliefly drophytic vegetation not present. 25 percent bare ground present. 26 percent bare ground present. 25 percent bare ground present. 26 percent bare ground present. 27 percent bare ground present ground		ppy			

Sampling Point: UP2060

SOIL Sampling Point: UP2060

Profile Desc	ription: (Describ	e to the depth	needed to docun	nent the	indicator	or confirm	the absence of in	dicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 2/2	100			. ———		Loamy sand		
6 - 12	10YR 4/4	100					Sand		
12 - 20	10YR 4/6	100					Sand		
-									
					· ——				
<u> </u>	-			· 	· ——				
	oncentration, D=De					ains.		Pore Lining, M=Mat	
l <u> </u>	Indicators: (Appli	cable to all LF			•			roblematic Hydric	c Soils*:
Histosol			Polyvalue Be		. , .			(A9) (LRR O)	
_	oipedon (A2) stic (A3)		Thin Dark Su Loamy Muck					(A10) (LRR S) ertic (F18) (outside	MI DA 150A B\
_	en Sulfide (A4)		Loamy Gleye		. , .	(0)		oodplain Soils (F19	
_	d Layers (A5)		Depleted Mat		·· - /			Bright Loamy Soils	
_	Bodies (A6) (LRR	P, T, U)	Redox Dark	Surface (F	- 6)		(MLRA 15	•	` ,
	ıcky Mineral (A7) (I		Depleted Dar	k Surface	e (F7)			Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)		— '	w Dark Surface (TF	⁻ 12)
_	ick (A9) (LRR P, T)		Marl (F10) (L	•	(MI D : 1	F4\	U Other (Expla	ain in Remarks)	
1 = 1	d Below Dark Surfa ark Surface (A12)	ce (A11)	Depleted Och Iron-Mangan	, ,	•	•	T) ³ Indicators	of hydrophytic veg	otation and
1 =	rairie Redox (A16)	(MI RA 150A)	Umbric Surfa					nydrology must be	
	Mucky Mineral (S1)		Delta Ochric			, •,		sturbed or problem	
	Gleyed Matrix (S4)	. ,	Reduced Ver			0A, 150B)		·	
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	I9A)		
_	Matrix (S6)		Anomalous B	right Loa	my Soils (F20) (MLR	A 149A, 153C, 153	D)	
	rface (S7) (LRR P,						1		
	Layer (if observed):							
Type:			_					10 11	
	ches):		<u></u>				Hydric Soil Pres	ent? Yes	_ No
Remarks: No Hydric so	il present								
l 10 Hyano oo	ii procent								

Project/Site: 1461 Lowman		City/County:	Silas/Choctaw	Sampling Date: 2020-01-16
Applicant/Owner: NextEra		, , _	State: Alabama	Sampling Point: UP2061
Investigator(s): Tyler Russell, Kyle F	Price	Section. Towr	nship, Range:	
Landform (hillslope, terrace, etc.): Upla			oncave, convex, none): Convex	Slope (%): 2
· · · · ·	Lat:	(b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BrF		(~)(.).	_	ation:
Are climatic / hydrologic conditions on t	the site typical for this tim	ne of year? Ves	No (If no, explain in F	
Are Vegetation, Soil, or			Are "Normal Circumstances"	
Are Vegetation, Soil, or			(If needed, explain any answer	
SUMMARY OF FINDINGS – A	Attach site map sho	owing sampling	point locations, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes No	✓ Is the	Sampled Area	
Hydric Soil Present?	Yes No	within	•	No 🗸
Wetland Hydrology Present?	Yes No	<u> </u>		
Remarks:	1M0004			
Upland sample associated with wetlar	nds VV2061			
HADBOLOCA				
HYDROLOGY Westland Hydrology Indicators			Socondary India	ators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is	s required: check all that	annly)		Cracks (B6)
Surface Water (A1)	Aquatic Fau			getated Concave Surface (B8)
High Water Table (A2)		its (B15) (LRR U)		atterns (B10)
Saturation (A3)		ulfide Odor (C1)	Moss Trim L	
Water Marks (B1)	— · ·	nizospheres along Livi		Water Table (C2)
Sediment Deposits (B2)		Reduced Iron (C4)	Crayfish Bu	
Drift Deposits (B3)	Recent Iron	Reduction in Tilled S	oils (C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck S	Surface (C7)	Geomorphic	Position (D2)
Iron Deposits (B5)	U Other (Expla	ain in Remarks)	Shallow Aqu	uitard (D3)
Inundation Visible on Aerial Imag	ery (B7)		FAC-Neutra	()
☐ Water-Stained Leaves (B9)			<u></u> Sphagnum ı	noss (D8) (LRR T, U)
Field Observations:				
	No Depth (
<u> </u>	No Depth (. ,		
Saturation Present? Yes _ (includes capillary fringe)	No 🔽 Depth ((inches):	Wetland Hydrology Prese	nt? Yes No <u>v</u>
Describe Recorded Data (stream gau	ge, monitoring well, aeria	al photos, previous ins	spections), if available:	
Remarks: Hydrology not present				

Tree Stratum (Plot size: 30 ft r	mes of pl			Sampling Point: UP2061
Tree Stratum (Plot size: 30 II I)		Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
_{1.} Fagus grandifolia	10		FACU	That Are OBL, FACW, or FAC: 4 (A)
2. Liriodendron tulipifera	10		FACU	Total Number of Dominant
3. Magnolia virginiana	10		FACW	Species Across All Strata: 10 (B)
4. Pinus taeda	10		FAC	Description of Description of Occasion
_{5.} Prunus serotina	5		FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
6.	0			· · · · · · · · · · · · · · · · · · ·
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
o	45% =	Total Cov		OBL species $0 x 1 = 0$
50% of total cover: 23	20% of			FACW species 15 $x 2 = 30$
	20% 01	total cover.		FAC species 20 x 3 = 60
Sapling/Shrub Stratum (Plot size: 30 ft r)	10		FACU	FACU species 65 x 4 = 260
1. Fagus grandifolia	10			UPL species 0 $x = 0$
2. Fraxinus pennsylvanica	5		FACW	100
3. Ilex opaca	5		FAC	Column Totals: 100 (A) 350 (B)
4. Ostrya virginiana	5		FACU	Prevalence Index = B/A = 3.5
5	0			Hydrophytic Vegetation Indicators:
6.	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			
8.	0			2 - Dominance Test is >50%
o	25% =	Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% affects assume 13				☐ Problematic Hydrophytic Vegetation¹ (Explain)
	20% of	total cover		
Herb Stratum (Plot size: 30 ft r)	15		EACH	¹ Indicators of hydric soil and wetland hydrology must
1. Fragaria virginiana	15		FACU	be present, unless disturbed or problematic.
2. Lonicera japonica	10		FACU	Definitions of Four Vegetation Strata:
3. Ilex vomitoria	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
·	0			of size, and woody plants less than size it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	<u> </u>			height.
12	0			
	30% =	 Total Cov 	er	
			_	
50% of total cover: 15	20% of	total cover:	6	
	20% of	total cover:	6	
Woody Vine Stratum (Plot size: 30 ft r)	20% of	total cover	6	
Woody Vine Stratum (Plot size: 30 ft r) 1.		total cover:	6	
Woody Vine Stratum (Plot size: 30 ft r) 1 2	0	total cover:	6	
Woody Vine Stratum (Plot size: 30 ft r) 1 2	0 0	total cover:	6	
Woody Vine Stratum (Plot size: 30 ft r	0 0 0	total cover	6	
50% of total cover: 15 Woody Vine Stratum (Plot size: 30 ft r) 1	0 0 0 0 0			Hydrophytic
Woody Vine Stratum (Plot size: 30 ft r	0 0 0 0 0		er	Hydrophytic Vegetation Present? Yes No

SOIL Sampling Point: UP2061

	Matrix Color (moist)	%	Redox Features Color (moist) % Type ¹ Loc	 C Texture	Remarks
inches) 0 - 2	10YR 3/2	<u>%</u>	Coloi (IIIoist) 70 I ype Lot	Loam	Remarks
2 - 6	10YR 4/4	100		Sand	
16 - 20	10YR 4/6	100		Sand	
10 - 20	10110 4/0				
-					
-					
-					
Type: C=C	oncentration, D=D	epletion, RM=R	educed Matrix, MS=Masked Sand Grains	. ² Location: PL=I	Pore Lining, M=Matrix.
ydric Soil	Indicators: (App	licable to all L	RRs, unless otherwise noted.)	Indicators for P	roblematic Hydric Soils ³ :
Histosol			Polyvalue Below Surface (S8) (LRR		(A9) (LRR O)
= '	oipedon (A2)		Thin Dark Surface (S9) (LRR S, T, U		(A10) (LRR S)
=	stic (A3)		Loamy Mucky Mineral (F1) (LRR O)		ertic (F18) (outside MLRA 150A,
	n Sulfide (A4) d Layers (A5)		Loamy Gleyed Matrix (F2) Depleted Matrix (F3)		oodplain Soils (F19) (LRR P, S, T Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P, T, U)	Redox Dark Surface (F6)	(MLRA 15	
5 cm Mເ	ıcky Mineral (A7) ((LRR P, T, U)	Depleted Dark Surface (F7)		Material (TF2)
_	esence (A8) (LRF		Redox Depressions (F8)		w Dark Surface (TF12)
=	ick (A9) (LRR P, 1	•	Mari (F10) (LRR U)	U Other (Expla	ain in Remarks)
_	d Below Dark Surf ark Surface (A12)	ace (ATT)	Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR	ROPT) 3Indicators	of hydrophytic vegetation and
	rairie Redox (A16)	(MLRA 150A)	_		nydrology must be present,
	lucky Mineral (S1)		Delta Ochric (F17) (MLRA 151)		sturbed or problematic.
_	Sleyed Matrix (S4)		Reduced Vertic (F18) (MLRA 150A,		
_	Redox (S5)		Piedmont Floodplain Soils (F19) (ML		. `
= ''	Matrix (S6) rface (S7) (LRR P	S T III	Anomalous Bright Loamy Soils (F20)	(MLRA 149A, 153C, 153	(ט
	Layer (if observe				
Type:	• `	•			
	ches):			Hydric Soil Pres	ent? Yes No 🗸
emarks:	·			<u> </u>	
o Hydric so	il present				

Project/Site: 1461 Lowman		City/County: Sila	s/Choctaw	Sampling Date: 2020-01-16
Applicant/Owner: NextEra			State: Alabama	Sampling Point: UP2062/UP2063/UP2064
Investigator(s): Tyler Russell, Kyle Pr	rice	Section, Townshi	<u> </u>	. 0
Landform (hillslope, terrace, etc.): Uplai			ave, convex, none): Convex	Slope (%): 3
· · · · _ ·	Lat:	(b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BrF				ition:
Are climatic / hydrologic conditions on th	ne site typical for this time	e of year? Yes	No (If no, explain in R	
Are Vegetation, Soil, or I				
Are Vegetation, Soil, or I			(If needed, explain any answe	
SUMMARY OF FINDINGS – A				
Hydrophytic Vegetation Present?	Yes No	/		
Hydric Soil Present?	Yes No	/	npled Area	
Wetland Hydrology Present?	Yes No	within a V	Vetland? Yes	No
Remarks: Upland Sample point associated with w	retlands W2062/W2063/V	V2064		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is	required; check all that a	pply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Faun	a (B13)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits	s (B15) (LRR U)	Drainage Pa	tterns (B10)
Saturation (A3)		lfide Odor (C1)	Moss Trim L	ines (B16)
Water Marks (B1)	Oxidized Rhiz	zospheres along Living	Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Presence of F	Reduced Iron (C4)	<u></u> Crayfish Bur	rows (C8)
Drift Deposits (B3)		Reduction in Tilled Soils	(C6) Saturation V	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Su	` ,	=	Position (D2)
Iron Deposits (B5)		n in Remarks)	☐ Shallow Aqu	
Inundation Visible on Aerial Image	ry (B7)		FAC-Neutral	` '
Water-Stained Leaves (B9)			<u>∐</u> Sphagnum n	noss (D8) (LRR T, U)
Field Observations:	No. 4/ Donath (i)	l \.		
	No <u> </u>			
<u> </u>	No <u>✓</u> Depth (ir	,	Watland Undralagy Dragge	42 Van Na V
(includes capillary fringe)			Wetland Hydrology Preser	t? Yes No
Describe Recorded Data (stream gaug	e, monitoring well, aerial	photos, previous inspe	ctions), if available:	
Remarks: Hydrology not present				

VEGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point: UP2062/UP2063/UP2064
00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r		Species?		Number of Dominant Species _
1. Ilex opaca	10		FAC	That Are OBL, FACW, or FAC: 7 (A)
2. Liquidambar styraciflua	10		FAC	Total Number of Dominant
3. Fagus grandifolia	5		FACU	Species Across All Strata: 11 (B)
4. Liriodendron tulipifera	5		FACU	Descent of Descinant Coasias
5. Magnolia virginiana	5		FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: 64 (A/B)
6. Pinus taeda	5		FAC	
7. Populus deltoides	5	~	FAC	Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	45% :	= Total Co	ver	OBL species 0 x 1 = 0
50% of total cover: 23		total cover		FACW species 5 $x 2 = 10$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 70 0.	10101 00101	•	FAC species $\underline{40}$ $x 3 = \underline{120}$
1 llex opaca	5	~	FAC	FACU species 20 x 4 = 80
2. Ostrya virginiana	5		FACU	UPL species $0 \times 5 = 0$
3. Oxydendrum arboreum	5		FACU	Column Totals: <u>65</u> (A) <u>210</u> (B)
B	5		FAC	
T			FAC	Prevalence Index = $B/A = \frac{3.2}{}$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	20%	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover	: <u>4</u>	<u></u>
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3.	0			
	0		•	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4	0			height.
5	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0	-		than 3 in. DBH and greater than 3.20 it (1 iii) tail.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9		-		of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	:	= Total Co	ver	
50% of total cover:	20% of	total cover	:	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0			
3.	0			
4	0	-		
5	0		•	
J	 .	= Total Co	ıor	Hydrophytic Vegetation
				Present? Yes No
50% of total cover:		total cover	-	

SOIL Sampling Point: UP2062/UP2063/UP2064

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirn	n the absence of indi	cators.)	
Depth	Matrix		Redo	x Feature	S				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	_Type ¹	Loc ²	Texture	Remarks	
0 - 2	10YR 3/1	100					Loam		
2 - 20	7.5YR 4/4	100					Loamy sand		
	7.0111 1/1			-					
-									
	-								-
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL=Po	re Lining, M=Matrix	κ.
	Indicators: (Appli							blematic Hydric S	
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (I	.RR S. T. I	U) 1 cm Muck (A	9) (LRR O)	
_	oipedon (A2)		Thin Dark Su				2 cm Muck (A		
	stic (A3)		Loamy Muck					ic (F18) (outside N	ILRA 150A.B)
l ==	n Sulfide (A4)		Loamy Gley	-		-,		odplain Soils (F19)	
	d Layers (A5)		Depleted Ma		,			ight Loamy Soils (F	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		6)		(MLRA 153		',
_	ıcky Mineral (A7) (L		Depleted Da				Red Parent M	,	
	esence (A8) (LRR		Redox Depre					Dark Surface (TF1:	2)
_	ick (A9) (LRR P, T)		Marl (F10) (I	`	,		Other (Explain	•	,
	d Below Dark Surfa		Depleted Oc	•	(MLRA 1	51)		,	
	ark Surface (A12)	,	Iron-Mangar				T) ³ Indicators o	f hydrophytic veget	ation and
Coast P	rairie Redox (A16) ((MLRA 150A)	Umbric Surfa					drology must be pr	
	lucky Mineral (S1)		Delta Ochric					urbed or problemat	
	Gleyed Matrix (S4)		Reduced Ve			50A, 150B)		·	
	Redox (S5)		Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 153D)		
	rface (S7) (LRR P,	S, T, U)		· ·	,	, ,	, ,		
Restrictive	Layer (if observed):							
Type:									
Depth (in	ches):						Hydric Soil Presei	nt? Yes	No 🗸
Remarks:			<u> </u>				,		
Hydric soil no	ot present								
1									

Project/Site: 1461 Lowman	City/Cou	_{inty:} Silas/Choctaw	Sampling Date: 2020-01-16
Applicant/Owner: NextEra	•	State: Alabama	Sampling Point: UP2065/UP2066
Investigator(s): Tyler Russell, Kyle Price	Section.	, Township, Range:	. 0
Landform (hillslope, terrace, etc.): Upland		lief (concave, convex, none): Convex	Slope (%)· 3
Subregion (LRR or MLRA): P		Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: OkA	Lat.		ition:
Are climatic / hydrologic conditions on the site ty	vnical for this time of year? Yes		
Are Vegetation, Soil, or Hydrologic			
Are Vegetation, Soil, or Hydrolog			
SUMMARY OF FINDINGS – Attach	ite map showing samp	ling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No <u> </u>	s the Sampled Area	
Hydric Soil Present? Yes	No	•	No 🗸
	No <u> </u>		
Remarks:	Mage Mage		
Upland Sample point associated with wetlands	VV2U65/VV2U66		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	itors (minimum of two required)
Primary Indicators (minimum of one is required	d: check all that apply)	Surface Soil	
Surface Water (A1)	Aquatic Fauna (B13)		getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR L		
Saturation (A3)	Hydrogen Sulfide Odor (C1)		
Water Marks (B1)	Oxidized Rhizospheres alor	· —	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron ((C4) \square Crayfish Bur	rows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Til	lled Soils (C6) Saturation V	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic	Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)		
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	\
☐ Water-Stained Leaves (B9)		<u></u> Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
	Depth (inches):		
<u> </u>	Depth (inches):		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Preser	t? Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previo	ous inspections), if available:	
Remarks: Hydrology not present			
l l l l l l l l l l l l l l l l l l l			

'EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2065/UP2066
70 ft r		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover 0	Species?	Status	Number of Dominant Species That Are OBL FACW or FAC: 1 (A)
1	0			That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant Species Across All Strata: 2 (B)
3	0			Species Across All Strata: 2 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8	· —	= Total Cov		OBL species 5 $x 1 = 5$
50% of total cover:				FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /6 01	total cover	·	FAC species 60 x 3 = 180
	0			FACU species <u>35</u> x 4 = <u>140</u>
1	0	-		UPL species $0 \times 5 = 0$
2	0	-	-	Column Totals: 100 (A) 325 (B)
3	0	-		2.2
4 5	0			Prevalence Index = B/A = 3.3
5	0			Hydrophytic Vegetation Indicators:
6	0		-	1 - Rapid Test for Hydrophytic Vegetation
7	0		-	2 - Dominance Test is >50%
8		Tatal Car		3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 01	total cover		
Herb Stratum (Plot size: 30 ft r) Andropogon virginicus	60	V	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Trifolium pratense	20		FACU	
Cirsium vulgare	15		FACU	Definitions of Four Vegetation Strata:
Carex stipata	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
"————	0	-	ODL	more in diameter at breast height (DBH), regardless of height.
5	0	-		
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			than 3 m. DBH and greater than 3.20 ft (1 m) tail.
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 3.20 it tall.
10	0	-		Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	. —	Total Cov		
500/ - 54-4-1 50		total cover		
50% of total cover: <u>50</u>	20% of	total cover		
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	0			
2	0			
3	0			
4	0			
5				Hydrophytic
5007 (1.1.1	· ·	= Total Cov		Vegetation Present? Yes No
50% of total cover:		total cover	<u> </u>	
Remarks: (If observed, list morphological adaptations beld Hydrophytic vegetation not present	Jw).			

SOIL Sampling Point: UP2065/UP2066

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ind	icators.)	
Depth	Matrix		Redo	x Feature	S				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	_Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 4	10YR 3/1	100					Loam		
4 - 20	7.5YR 4/4	100					Loamy sand		
	7.0111 1/1			-					
-									
									_
	-								
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL=P	ore Lining, M=Mat	rix.
	Indicators: (Appli							oblematic Hydric	
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (I	RR S. T. I	U) 1 cm Muck (/	49) (LRR O)	
_	oipedon (A2)		Thin Dark Su				2 cm Muck (
	stic (A3)		Loamy Muck					tic (F18) (outside	MLRA 150A.B)
l ==	n Sulfide (A4)		Loamy Gley	-		. •,		odplain Soils (F19	
	d Layers (A5)		Depleted Ma		-,			Bright Loamy Soils	
	Bodies (A6) (LRR I	P. T. U)	Redox Dark		6)		(MLRA 153	-	·/
_	icky Mineral (A7) (L		Depleted Da				,	Material (TF2)	
	esence (A8) (LRR		Redox Depre					Dark Surface (TF	12)
_	ick (A9) (LRR P, T)		Marl (F10) (I	`	- /			n in Remarks)	-/
	d Below Dark Surfa		Depleted Oc	•	(MLRA 1	51)		,	
	ark Surface (A12)	,	Iron-Mangar				, T) ³ Indicators	of hydrophytic veg	etation and
l =	rairie Redox (A16) ((MLRA 150A)	Umbric Surfa					ydrology must be	
	lucky Mineral (S1)		Delta Ochric			,		turbed or problem	
	Gleyed Matrix (S4)	. ,	Reduced Ve			0A, 150B		•	
	Redox (S5)		Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 153D)	
	rface (S7) (LRR P,	S, T, U)		· ·	,	, ,		,	
Restrictive	Layer (if observed):							
Type:									
Depth (in	ches):						Hydric Soil Prese	nt? Yes	No 🗸
Remarks:			<u> </u>				,		
Hydric soil no	ot present								
1									

Project/Site: 1461 Lowman	City/C	ounty: Silas/Choctaw	Sampling Date: 2020-01-16
Applicant/Owner: NextEra	,	State: Alabama	Sampling Point: UP2067/UP2068/UP2069
Investigator(s): Tyler Russell, Kyle Price	e Section	on, Township, Range:	. •
Landform (hillslope, terrace, etc.): Upland		relief (concave, convex, none): Convex	Slope (%): 1
Subregion (LRR or MLRA): P		Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: IzA	Lat		ation:
Are climatic / hydrologic conditions on the	aita tunical for this time of year? V		
Are Vegetation, Soil, or Hy			
Are Vegetation, Soil, or Hy			
SUMMARY OF FINDINGS – Atta	ach site map showing sam	pling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes No	Is the Sampled Area	No 🗸
Wetland Hydrology Present?	Yes No	within a Wetland? Yes	NO <u> </u>
Remarks:			
Upland Sample point associated with wet	land W2067, W2069 and W2069		
HYDROLOGY		O a ser de se la disc	. t (
Wetland Hydrology Indicators:	aviradi ahaak all that annly)		ators (minimum of two required)
Primary Indicators (minimum of one is red		Surface Soil	
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) (LRF		getated Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide Odor (C		
Water Marks (B1)	Oxidized Rhizospheres al	· · · · · · · · · · · · · · · · · · ·	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron		
Drift Deposits (B3)	Recent Iron Reduction in	<u> </u>	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic	Position (D2)
Iron Deposits (B5)	U Other (Explain in Remark	(s) Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery	(B7)	FAC-Neutral	,
☐ Water-Stained Leaves (B9)		☐ Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
	No Depth (inches):		
1	No Depth (inches):		
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, prev	vious inspections), if available:	
Remarks: Hydrology not present			

1.	20.4 -			t Indicator	Dominance Test worksheet:
Total Number of Dominant Species Across All Strata: 2	<u>Tree Stratum</u> (Plot size: 30 ft r)		Species'	? Status	
Total Number of Dominant Species 5.		· —			That Are OBL, FACW, or FAC: $\frac{1}{}$ (A)
Species Ardos at Instala. Geography		- —			
Percent of Dominant Species That Are OBL, FACW, or FAC. 50 (A/B) Prevalence Index worksheet: Total % Cover of. Multioly by: Total Cover	3	- —		- ——	Species Across All Strata: 2 (B)
That Are OBL_FACW, or FAC_ 50 (AB)	4	- 		- ——	Percent of Dominant Species
Provalence Index worksheet: Total % Cover of: Multiply by: OBL species O	5	- 			
Total % Cover of: Multiply by:	6	· —			Decorate and trades and trades and trades
Sapiling/Shrub Stratum (Plot size: 30 ft r 0 0 0 0 0 0 0 0 0	7	- —			
FACW species 0 x 2 0	8	0			
Sapling/Shrub Stratum (Plot size: 30 ft r		=	= Total Co	over	
Sabningshild Stratum (Plot size:	50% of total cover:	20% of	total cove	r:	
UPL species 0 x5 = 0	Sapling/Shrub Stratum (Plot size: 30 ft r)				
O	1	0			
Column rotats: 110		0			
Prevalence Index		0			Column Totals: 115 (A) 400 (B)
Hydrophytic Vegetation Indicators:		0			Prevalence Index = $B/\Delta = 3.5$
6	_				-
2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0" Problematic Hydrophytic Vegetation (Explain) 1 - Problematic Hydrophytic Vegetation (Explain) Problematic Hydrophytic Vegetation Strate Hydrophytic Vegetation (Explain) Problematic Hydrophytic Vegetation		0			
Solution		0			
Solid Cover					l =
Solid to total cover:	<u> </u>		= Total Co	ver	
Herb Stratum (Plot size: 30 ft r) 1. Schedonorus arundinaceus 60	50% of total cover:				Problematic Hydrophytic Vegetation (Explain)
Schedonorus arundinaceus 60	· · · · · · · · · · · · · · · · · · ·		10101 0010	··	1
2 Trifolium pratense	1 Schedonorus arundinaceus	60	~	FAC	
15		40		FACU	
1	<u>-</u> .	15			
Neight N		0			
Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Balling/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. 115% = Total Cover		0			
7		0			
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		0			
9		0			
10.		0			
10.		· ——			of size, and woody plants less than 3.20 it tall.
12	'				
115% = Total Cover 50% of total cover: 58 20% of total cover: 23					neight.
50% of total cover: 58 20% of total cover: 23	12				
Woody Vine Stratum (Plot size: 30 ft r	50				
1		20% of	total cove	r: <u>23</u>	
1		0			
3					
4		- 			
5 = Total Cover = Total Cover So% of total cover: 20% of total cover: Present? Yes No		- 			
Hydrophytic Vegetation Present? Yes No Ves No	4	- <u> </u>			
50% of total cover: 20% of total cover: Present? Yes No No Remarks: (If observed, list morphological adaptations below).	5				
Remarks: (If observed, list morphological adaptations below).					Vegetation
, , , , , , , , , , , , , , , , , , , ,	50% of total cover:	20% of	total cove	r:	riesent: resNo
Hydrophytic vegetation not present	Remarks: (If observed, list morphological adaptations below	ow).			·
	Hydrophytic vegetation not present				

Sampling Point: UP2067/UP2068/UP2069

SOIL Sampling Point: UP2067/UP2068/UP2069

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ind	icators.)	
Depth	Matrix		Redo	x Feature	S				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	_Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 4	10YR 3/1	100					Loam		
4 - 20	7.5YR 4/4	100					Loamy sand		
	7.0111 1/1			-					
-									
									_
	-								
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, M	S=Masked	Sand Gr	ains.	² Location: PL=P	ore Lining, M=Mat	rix.
	Indicators: (Appli							oblematic Hydric	
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (I	RR S. T. I	U) 1 cm Muck (/	49) (LRR O)	
_	oipedon (A2)		Thin Dark Su				2 cm Muck (
	stic (A3)		Loamy Muck					tic (F18) (outside	MLRA 150A.B)
l ==	n Sulfide (A4)		Loamy Gley	-		. •,		odplain Soils (F19	
	d Layers (A5)		Depleted Ma		-,			Bright Loamy Soils	
	Bodies (A6) (LRR I	P. T. U)	Redox Dark		6)		(MLRA 153	-	·/
_	icky Mineral (A7) (L		Depleted Da				,	Material (TF2)	
	esence (A8) (LRR		Redox Depre					Dark Surface (TF	12)
_	ick (A9) (LRR P, T)		Marl (F10) (I	`	- /			n in Remarks)	-/
	d Below Dark Surfa		Depleted Oc	•	(MLRA 1	51)		,	
	ark Surface (A12)	,	Iron-Mangar				, T) ³ Indicators	of hydrophytic veg	etation and
l =	rairie Redox (A16) ((MLRA 150A)	Umbric Surfa					ydrology must be	
	lucky Mineral (S1)		Delta Ochric			,		turbed or problem	
	Gleyed Matrix (S4)	. ,	Reduced Ve			0A, 150B		•	
	Redox (S5)		Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 153D)	
	rface (S7) (LRR P,	S, T, U)		· ·	,	, ,		,	
Restrictive	Layer (if observed):							
Type:									
Depth (in	ches):						Hydric Soil Prese	nt? Yes	No 🗸
Remarks:			<u> </u>				,		
Hydric soil no	ot present								
1									
1									

Project/Site: 1461 Lowman		City/County: Need	dham/Choctaw	Sampling Date: 2020-01-18
Applicant/Owner: NextEra		_ , , ,	State: Alabama	Sampling Point: UP2070/UP2071
Investigator(s): Tyler Russell, Kyle P	rice	Section, Township		
Landform (hillslope, terrace, etc.): Upla			ve, convex, none): Convex	Slope (%): 1
Subregion (LRR or MLRA): P	Lat:	(b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BnE2	Eat.	(~)(.).	_	tion:
Are climatic / hydrologic conditions on the	ne site typical for this time	of year? Yes	lo (If no, explain in R	emarks.)
Are Vegetation, Soil, or			Are "Normal Circumstances" p	
Are Vegetation, Soil, or			(If needed, explain any answe	
SUMMARY OF FINDINGS - A				
	<u> </u>			,
Hydrophytic Vegetation Present?	Yes No	Is the Sam	pled Area	
Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No	within a W	etland? Yes	No
Remarks:	165 NO			
Upland sample associated with wetland				
HYDROLOGY				
Wetland Hydrology Indicators:			_	tors (minimum of two required)
Primary Indicators (minimum of one is	required; check all that ap	ply)	Surface Soil	·
Surface Water (A1)	Aquatic Fauna			getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (☐ Mana Tribut	
Saturation (A3) Water Marks (B1)	Hydrogen Sulfi	ide Odor (C1) ospheres along Living R	Moss Trim Li	Nater Table (C2)
Sediment Deposits (B2)		educed Iron (C4)	Crayfish Buri	
Drift Deposits (B3)		eduction in Tilled Soils (-	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Sur		Geomorphic	
☐ Iron Deposits (B5)	Other (Explain	in Remarks)	Shallow Aqui	tard (D3)
Inundation Visible on Aerial Image	ery (B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, U)
Field Observations:	,			
	No Depth (inc			
<u> </u>	No Pepth (inc	,		
Saturation Present? Yes (includes capillary fringe)	No <u> </u>	ches):	Wetland Hydrology Presen	t? Yes No
Describe Recorded Data (stream gaug	ge, monitoring well, aerial p	photos, previous inspec	tions), if available:	
Remarks: Hydrology not present				

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	25		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Quercus alba	20		FACU	Total Number of Dominant
3. Ilex opaca	15		FAC	Species Across All Strata: 7 (B)
4. Juniperus virginiana	5		FACU	Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 43 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	65% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 33		total cover:		FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 70 01	10101 00101		FAC species 50 $\times 3 = 150$
1. Ilex opaca	10	~	FAC	FACU species 50 x 4 = 200
2. Quercus alba	10		FACU	UPL species $0 x 5 = 0$
3. Fagus grandifolia	5		FACU	Column Totals: 100 (A) 350 (B)
	0		17.00	
4	0			Prevalence Index = $B/A = 3.5$
5	· —			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	25% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 13	20% of	total cover:	5	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Quercus alba	10	✓	FACU	be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
	0			Johnson of Four Vogotation Official
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of height.
5	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	· —			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	10% =	Total Cov	er	
50% of total cover: 5	20% of	total cover:	2	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3.	0			
	0			
4	0			
5	· —			Hydrophytic
		Total Cov		Vegetation Present? Yes No
50% of total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belo	ow).			
Hydrophytic vegetation not present				

Sampling Point: UP2070/UP2071

SOIL Sampling Point: UP2070/UP2071

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the	indicator	or confirm	the absence of in	dicators.)	
Depth	Matrix			x Feature		. 2	- .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-1	10YR 2/2						Loamy sand		
1 - 10	10YR 3/3	100					Sand		
10 - 20	2.5Y 4/3	100		· <u></u>	·		Sand		
-									
1							2		
	oncentration, D=De Indicators: (Appli					ains.		Pore Lining, M=Ma roblematic Hydri	
l <u> </u>		cable to all Lr			•	DD C T I		-	Jouis .
Histosol	oipedon (A2)		Polyvalue Be Thin Dark Su		. , .			(A9) (LRR O) (A10) (LRR S)	
_	stic (A3)		Loamy Muck					ertic (F18) (outside	MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye		. , .	,		oodplain Soils (F1	
Stratified	d Layers (A5)		Depleted Mar	trix (F3)			Anomalous	Bright Loamy Soils	(F20)
	Bodies (A6) (LRR		Redox Dark	,	,		(MLRA 15	,	
	icky Mineral (A7) (I		Depleted Dar					Material (TF2)	-10)
	esence (A8) (LRR uck (A9) (LRR P, T)		Redox Depre		8)			w Dark Surface (TF ain in Remarks)	-12)
_	d Below Dark Surfa		Depleted Och	•	(MLRA 1	51)	U Other (Expid	alli ili Remarks)	
1 = 1	ark Surface (A12)	,	Iron-Mangan	, ,	•	•	T) ³ Indicators	of hydrophytic veg	etation and
Coast Pi	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ce (F13)	(LRR P, T	, U)	wetland I	nydrology must be	present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problem	natic.
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5) Matrix (S6)		Piedmont Flo				19A) RA 149A, 153C, 153I	חו	
_	rface (S7) (LRR P,	S. T. U)	Anomaious L	ingni Luai	illy Solis (1 20) (WILK	A 149A, 1930, 1931	5)	
	Layer (if observed								
Type:			<u></u>						
Depth (inc	ches):		<u> </u>				Hydric Soil Pres	ent? Yes	No <u>′</u>
Remarks:									
No Hydric so	il present								

Project/Site: 1461 Lowman		City/C	ounty: Needham/Cho	ctaw	Sampling Date: 2020-01-18
Applicant/Owner: NextEra			,	State: Alabama	Sampling Date: 2020-01-18 Sampling Point: UP2072
Investigator(s): Tyler Russell, Ky			on, Township, Range:		
Landform (hillslope, terrace, etc.):			·		Slope (%): 1
	La		Long:		Datum: WGS 84
Soil Map Unit Name: BnE2		at. I	Long.		tion:
Are climatic / hydrologic conditions	on the site typical for this	time of year? Y	es V No		
Are Vegetation, Soil					
Are Vegetation, Soil					
SUMMARY OF FINDINGS -				explain any answe	
	-			•	
Hydrophytic Vegetation Present?	Yes No		Is the Sampled Area		
Hydric Soil Present? Wetland Hydrology Present?	Yes No		within a Wetland?	Yes	No
Remarks:	1001				
Upland sample associated with we	tland W2072				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of or	ne is required; check all t	hat apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic	Fauna (B13)		Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)		posits (B15) (LRF		Drainage Pat	
Saturation (A3)	— • •	n Sulfide Odor (C	•	Moss Trim Li	, ,
Water Marks (B1)			long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		e of Reduced Iron ron Reduction in	• •	Crayfish Burn	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		ck Surface (C7)	Tilled Solls (Co)	Geomorphic	
Iron Deposits (B5)		xplain in Remark	xs)	Shallow Aqui	` '
Inundation Visible on Aerial Ir			-,	FAC-Neutral	
☐ Water-Stained Leaves (B9)				Sphagnum m	noss (D8) (LRR T, U)
Field Observations:					
	es No 🖍 Dep				
	es No 🖍 Dep				
Saturation Present? Ye (includes capillary fringe)	es No 🔽 Dep	oth (inches):	Wetland	Hydrology Presen	t? Yes No
Describe Recorded Data (stream	gauge, monitoring well, a	aerial photos, pre	vious inspections), if ava	ailable:	
Remarks: Hydrology not present					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: UP2072

20.4 -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r		Species?	<u>Status</u>	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 2 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 5 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 40 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
		Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 60 x 3 = 180
1. Liquidambar styraciflua	20	~	FAC	FACU species <u>50</u> x 4 = <u>200</u>
2. Quercus falcata	15		FACU	UPL species 0 x 5 = 0
	0			Column Totals: 110 (A) 380 (B)
3	0			
4	0			Prevalence Index = $B/A = 3.5$
5	0			Hydrophytic Vegetation Indicators:
6	- 0			1 - Rapid Test for Hydrophytic Vegetation
7	- 			2 - Dominance Test is >50%
8	0			☐ 3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover	7	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	40		FAC	be present, unless disturbed or problematic.
2. Lonicera japonica	20	'	FACU	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	15		FACU	Tree Moody plants evaluding vince 2 in (7.6 cm) or
4	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	0			or orze, and woody planto loss than o.ze it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12.				
20		Total Cov		
50% of total cover: <u>38</u>	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations below	ow).			1
Hydrophytic vegetation not present.	/.			

SOIL Sampling Point: UP2072

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the	indicator	or confirm	the absence of in	dicators.)	
Depth	Matrix			x Feature		. 3			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-3	10YR 3/3	100					Loamy sand		
3 - 10	10YR 4/3	100					Sand		
10 - 20	10YR 4/4	100					Sand		
-					· ·				
									
-	-				· ·				
	oncentration, D=De					ains.		Pore Lining, M=Ma	
l <u> </u>	Indicators: (Appli	cable to all LF			•			roblematic Hydric	Solis":
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su		. , .			A9) (LRR O) A10) (LRR S)	
_	stic (A3)		Loamy Muck					ertic (F18) (outside	MLRA 150A.B)
	n Sulfide (A4)		Loamy Gleye		. , .	. •,		oodplain Soils (F19	
_	d Layers (A5)		Depleted Ma	trix (F3)	. ,			Bright Loamy Soils	
	Bodies (A6) (LRR		Redox Dark	`	,		(MLRA 15	,	
	icky Mineral (A7) (L		Depleted Dar					Material (TF2)	-10)
	esence (A8) (LRR		Redox Depre		8)			v Dark Surface (TF	-12)
_	ıck (A9) (LRR P, T) d Below Dark Surfa		Depleted Oct	,	(MI RA 1	51)	U Otner (Expir	in in Remarks)	
1 = 1	ark Surface (A12)	(, , , ,	Iron-Mangan	. ,	•	•	T) ³ Indicators	of hydrophytic veg	etation and
	rairie Redox (A16)		Umbric Surfa					nydrology must be	
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problem	natic.
	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5) Matrix (S6)		Piedmont Flo				I9A) ≾A 149A, 153C, 153I	3 \	
_	rface (S7) (LRR P ,	S T U)	Anomalous E	nigrit Loa	illy Solis (rzu) (IVILK	A 149A, 1930, 1931	رد	
	Layer (if observed								
Type:	• •	•							
, , , <u> </u>	ches):		_				Hydric Soil Pres	ent? Yes	No 🗸
Remarks:							<u> </u>		
No Hydric so	il present								

Project/Site: 1461 Lowman	City/C	ounty: Needham/Choctaw	1	Sampling Date: 2020-01-19
Applicant/Owner: NextEra	, ,	State	e: Alabama	Sampling Point: UP2074/UP2075
Investigator(s): Tyler Russell, Kyle Price	Section	on, Township, Range:		
Landform (hillslope, terrace, etc.): Upland		relief (concave, convex, none	e). Convex	Slope (%)· 1
Subregion (LRR or MLRA): P		Long:	,	Datum: WGS 84
Soil Map Unit Name: BnE2	Lat.			tion:
Are climatic / hydrologic conditions on the site	e typical for this time of year? V	•		
Are Vegetation, Soil, or Hydro				_
Are Vegetation, Soil, or Hydro				
SUMMARY OF FINDINGS - Attack			-	
		<u> </u>		, , , , , , , , , , , , , , , , , , , ,
Hydrophytic Vegetation Present?	es No	Is the Sampled Area		
	es No es No	within a Wetland?	Yes	No
Remarks:	55 NO <u>*</u>			
Upland sample associated with wetland W20)74 and W2075.			
HYDROLOGY				
Wetland Hydrology Indicators:		Sec	condary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil (Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)			etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR		Drainage Pat	
Saturation (A3)	Hydrogen Sulfide Odor (C	· —	Moss Trim Li	` '
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres al Presence of Reduced Iror		Crayfish Burn	Water Table (C2)
Drift Deposits (B3)	Recent Iron Reduction in	· · ·	•	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic I	
Iron Deposits (B5)	Other (Explain in Remark	s) 🔲	Shallow Aquit	()
☐ Inundation Visible on Aerial Imagery (B	7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, U)
Field Observations:				
	No Depth (inches):			
<u> </u>	No Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No _ V Depth (inches):	Wetland Hydr	ology Presen	t? Yes No
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, prev	vious inspections), if availabl	e:	
Remarks: Hydrology not present				

20.4			t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r	% Cover	<u>Species</u>	? Status	Number of Dominant Species
1	0	-		That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0		_	
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
		= Total Co	over	OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$
50% of total cover:				FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 70 01	10101 0010	,	FAC species <u>40</u> x 3 = <u>120</u>
	0			FACU species 15 x 4 = 60
1	0	-		UPL species $0 \times 5 = 0$
2	0		_	Column Totals: <u>55</u> (A) <u>180</u> (B)
3	0	-		
4	0			Prevalence Index = $B/A = 3.3$
5	- 	-		Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
		= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	40	~	FAC	be present, unless disturbed or problematic.
2 Eupatorium capillifolium	15	~	FACU	Definitions of Four Vegetation Strata:
3.	0			_
4.	0	-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
	0		_	height.
5	0	-		
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			than 5 m. bbit and greater than 5.20 ft (1 m) tail.
8	0	-		Herb – All herbaceous (non-woody) plants, regardless
9	- ——			of size, and woody plants less than 3.28 ft tall.
10	$-\frac{0}{0}$			Woody vine – All woody vines greater than 3.28 ft in
11			_	height.
12	0			
	55% :	= Total Co	over	
50% of total cover: 28	20% of	total cove	_{er:} 11	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4.	0			
5.	0			Livedva playtic
<u> </u>	- 	= Total Co	over	Hydrophytic Vegetation
50% of total cover:		total cove		Present? Yes No
Remarks: (If observed, list morphological adaptations bel		iolai cove	71	
Hydrophytic vegetation not present. 55 percent bare groun	•	ging distu	rbances	

Sampling Point: UP2074/UP2075

SOIL Sampling Point: UP2074/UP2075

Profile Desc	cription: (Describe	e to the depth	needed to docur	nent the i	indicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	_
0-3	10YR 3/3	100			·		Loamy sand	_
3 - 10	7.5YR 4/4	100					Sand	
10 - 20	7.5YR 4/6	100					Sand	
	-						·	_
	-			-	·			_
				-				
-								
¹Type: C=C	oncentration, D=De	pletion RM=R	educed Matrix Ma	S=Masked	d Sand Gr	ains	² Location: PL=Pore Lining, M=Matrix.	
	Indicators: (Appli	•				<u> </u>	Indicators for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Be		•	RR S. T. L		
	pipedon (A2)		Thin Dark Su				2 cm Muck (A10) (LRR S)	
	istic (A3)		Loamy Muck				Reduced Vertic (F18) (outside MLRA 150A	,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)		Piedmont Floodplain Soils (F19) (LRR P, S,	T)
	d Layers (A5)		Depleted Ma					
	Bodies (A6) (LRR		Redox Dark				(MLRA 153B)	
_	ucky Mineral (A7) (L		Depleted Da				Red Parent Material (TF2)	
_	resence (A8) (LRR uck (A9) (LRR P, T)		Redox Depre	`	8)		☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks)	
_	d Below Dark Surfa		Depleted Oc	•	(MI RA 1	51)	Other (Explain in Remarks)	
	ark Surface (A12)	00 (711)	Iron-Mangan				, T) ³ Indicators of hydrophytic vegetation and	
l ===	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa				wetland hydrology must be present,	
_	Mucky Mineral (S1)		Delta Ochric				unless disturbed or problematic.	
_	Sleyed Matrix (S4)		Reduced Ve					
	Redox (S5)		Piedmont Flo					
	Matrix (S6)		Anomalous E	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 153D)	
	rface (S7) (LRR P,						T	
	Layer (if observed):						
Type:			_					
Depth (in	ches):						Hydric Soil Present? Yes No	_
Remarks:	il propont							
No Hydric so	ni preseni							

Project/Site: 1461 Lowman Cit	y/County: Silas/Choctaw	Sampling Date: 2020-01-19
Applicant/Owner: NextEra	State: Alabama	
Tylor Bussell Kyle Brice	ection, Township, Range:	. 0
	cal relief (concave, convex, none): Convex	Slope (%): 3
	7)f Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: Fra	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of year?		
Are Vegetation, Soil, or Hydrology significantly dis		
Are Vegetation, Soil, or Hydrology naturally proble		
SUMMARY OF FINDINGS – Attach site map showing s		
Libration but in Magazinian December 2		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area	
Wetland Hydrology Present? Yes No	within a Wetland? Yes	No
Remarks:		
Upland Sample point associated with wetland W2076		
HYDROLOGY		
Wetland Hydrology Indicators:		tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil	
Surface Water (A1) Aquatic Fauna (B13) Mad Barasita (A15) (1		getated Concave Surface (B8)
High Water Table (A2) Saturation (A3) Marl Deposits (B15) (I	_	
		Water Table (C2)
Sediment Deposits (B2) Presence of Reduced		
Drift Deposits (B3)	n in Tilled Soils (C6) Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Rem	<u> </u>	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	Test (D5) noss (D8) (LRR T, U)
☐ Water-Stained Leaves (B9) Field Observations:	Эрпаунин п	1055 (D6) (LRR 1, U)
Surface Water Present? Yes No Depth (inches): _		
Water Table Present? Yes No Depth (inches):		
Saturation Present? Yes No Depth (inches):		nt? Yes No 🗸
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos,		
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), il available.	
Remarks:		
Hydrology not present		

Tree Stratum (Plot size: 30 ft r) 1. Quercus falcata 2 2. Quercus alba 3. Pinus taeda		Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1. Quercus falcata 2 2. Quercus alba 2 3. Pinus taeda	20 15			
Quercus alba Pinus taeda	15		FACU	That $Ara ODI = ACW ar = ACC$ (A)
Pinus taeda		✓		That Are OBL, I ACW, OF I AC (A)
	10		FACU	Total Number of Dominant
Fagus grandifolia	10		FAC	Species Across All Strata: 4 (B)
	5		FACU	Dergant of Deminant Charles
J	5		FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)
6. Quercus laurifolia	5		FACW	
7	0	<u> </u>		Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	60% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 30		total cover:		FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size: 30 ft r)	_ 20 /0 01	total cover.		FAC species 30 x 3 = 90
	10	~	FAC	FACU species 55 x 4 = 220
	10		FACU	UPL species $0 \times 5 = 0$
				Column Totals: 95 (A) 330 (B)
5. <u> </u>	5		FACU	Goldmin Totals (A) (B)
т,	5		FAC	Prevalence Index = $B/A = 3.5$
5. Quercus laurifolia	5		FACW	Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7 <u>(</u>	0			2 - Dominance Test is >50%
	0			3 - Prevalence Index is ≤3.0 ¹
	35% =	Total Cov	er	l =
50% of total cover: 18		total cover:		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 ft r)	_ 20 /0 01	total cover.		
,	0			¹ Indicators of hydric soil and wetland hydrology must
·	0			be present, unless disturbed or problematic.
Z	0			Definitions of Four Vegetation Strata:
3 <u></u>				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
-	0			more in diameter at breast height (DBH), regardless of
o	0			height.
o	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
	0			of size, and woody plants less than 3.28 ft tall.
10	0			
	0			Woody vine – All woody vines greater than 3.28 ft in height.
	0			noight.
12.		Total Cav		
		Total Cov		
50% of total cover:	_ 20% 01	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)	0			
1				
<u>Z</u>	0			
o <u>`</u>	0			
4	0			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
).			

SOIL Sampling Point: UP2076

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of	indicators.)		
Depth	Matrix			x Feature						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Re	emarks	
0-3	2.5YR 4/3						Loam			
3 - 20	10YR 5/6	100					Loamy sand			
-										
					· 					
										
-										
¹Type: C=Co	oncentration, D=De	nletion RM=R	educed Matrix MS	S=Masked	Sand Gr	ains	² I ocation: PI	L=Pore Lining,	M=Matrix	
	Indicators: (Appli					unio.		r Problematic		
☐ Histosol			Polyvalue Be		•	.RR S. T. U		ck (A9) (LRR C	-	
	oipedon (A2)		Thin Dark Su		. , .		-	ck (A10) (LRR	•	
Black Hi			Loamy Mucky					Vertic (F18) (c		LRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		Piedmont	t Floodplain So	ils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat	` '			Anomalo	us Bright Loam	ny Soils (F	20)
	Bodies (A6) (LRR		Redox Dark S	•	•		☐ (MLRA	,		
	ıcky Mineral (A7) (L		Depleted Dar					ent Material (TF	,	
	esence (A8) (LRR		Redox Depre		8)			llow Dark Surfa	•	(.)
_	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Och	•	/MI DA 1	E4\	U Other (Ex	cplain in Rema	rks)	
· = ·	ark Surface (A12)	CE (ATT)	Iron-Mangan				T) ³ Indicate	ors of hydrophy	tic vegeta	ation and
ı ==	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa					nd hydrology m	-	
	lucky Mineral (S1)	•	Delta Ochric			, -,		s disturbed or p		
	Bleyed Matrix (S4)		Reduced Ver			0A, 150B))	·		
☐ Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	19A)			
_	Matrix (S6)		Anomalous B	right Loai	my Soils (F20) (MLR	RA 149A, 153C, 1	53D)		
	rface (S7) (LRR P,						ľ			
	Layer (if observed):								
Type:										
Depth (inc	ches):		_				Hydric Soil Pr	esent? Yes	·	No 🔽
Remarks:										
Hydric soil no	ot present									

Project/Site: 1461 Lowman City	//County: Gilbertown/Choctaw Sampling Date: 2020-01-19
Applicant/Owner: NextEra	State: Alabama Sampling Point: UP2077/UP2079
Tylor Duggall, Kylo Drigo	ction, Township, Range:
· · · · · · · · · · · · · · · · · · ·	cal relief (concave, convex, none): Convex Slope (%): 2
Subregion (LRR or MLRA): P Lat: (b)(7	
Soil Map Unit Name: SmB	NWI classification:
•	<u> </u>
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dis	
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Livedepolitic Venetation Dresent?	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks:	
Upland Sample point associated with wetlands W2077 and W2079	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (L	.RR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odol	r (C1) Moss Trim Lines (B16)
Water Marks (B1)	s along Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced	Iron (C4)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction	in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Rem	arks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches): _	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:
Remarks:	
Hydrology not present	

20 # -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Pinus taeda	20		FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus alba	15		FACU	Total Number of Dominant
3. Quercus falcata	15		FACU	Species Across All Strata: 5 (B)
4. Fagus grandifolia	5		FACU	Percent of Dominant Species
5. Ilex opaca	5		FAC	That Are OBL, FACW, or FAC: 40 (A/B)
6. Quercus laurifolia	5		FACW	
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	65% =	Total Cov	er	OBL species $\frac{0}{10}$ $x = \frac{0}{0}$
50% of total cover: 33	20% of	total cover:	13	FACW species 10 $\times 2 = 20$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species <u>40</u> x 3 = <u>120</u>
1. Ilex opaca	10	~	FAC	FACU species <u>50</u> x 4 = <u>200</u>
2. Quercus falcata	10		FACU	UPL species <u>0</u> x 5 = <u>0</u>
3. Fagus grandifolia	5		FACU	Column Totals: 100 (A) 340 (B)
4 Pinus taeda	5		FAC	
5. Quercus laurifolia	5		FACW	Prevalence Index = $B/A = 3.4$
			TACV	Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			☐ 3 - Prevalence Index is ≤3.0 ¹
	35% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 18	20% of	total cover:	7	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3.	0			_
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
	0			height.
5	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			than 3 m. BBT and greater than 3.20 ft (1 m) tail.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	· 			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	0			
	=	Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3.	0			
4.	0			
5	0			
·		Total Cov		Hydrophytic Vegetation
EOO/ of total covers				Present? Yes No
50% of total cover:		total cover:		
Remarks: (If observed, list morphological adaptations below	ow).			
Hydrophytic vegetation not present	,,,,,			

Sampling Point: UP2077/UP2079

SOIL Sampling Point: UP2077/UP2079

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirn	n the absence of	indicators.)	-
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Rema	arks
0-3	10YR 4/3	100					Loam		
3 - 20	2.5Y 4/6	100					Loamy sand		
_									
				· 					
-									
¹Type: C=Co	oncentration, D=De	nletion RM=R	educed Matrix MS	S=Masker	Sand Gr	ains	² I ocation: PI	L=Pore Lining, M=	=Matrix
	Indicators: (Appli					unio.		r Problematic Hy	
Histosol			Polyvalue Be		•	RR S. T. I		ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su		. , .		-	ck (A10) (LRR S)	
Black Hi			Loamy Muck						side MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2)		Piedmont	t Floodplain Soils	(F19) (LRR P, S, T)
_	d Layers (A5)		Depleted Mar	` ,			Anomalo	us Bright Loamy S	Soils (F20)
	Bodies (A6) (LRR		Redox Dark	•	•		☐ (MLRA	,	
	ıcky Mineral (A7) (L		Depleted Dar					ent Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			llow Dark Surface	, ,
_	ick (A9) (LRR P, T) d Below Dark Surfa		✓ Marl (F10) (L✓ Depleted Oct	-	/MI DA 1	E4\	U Other (Ex	cplain in Remarks)
	ark Surface (A12)	CE (ATT)	Iron-Mangan				T) ³ Indicate	ors of hydrophytic	vegetation and
1 	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa					nd hydrology must	-
_	lucky Mineral (S1)		Delta Ochric			, -,		s disturbed or prol	•
_	Gleyed Matrix (S4)		Reduced Ver			0A, 150B)		•	
☐ Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	19A)		
_	Matrix (S6)		Anomalous E	right Loar	my Soils (F20) (MLF	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P,								
	Layer (if observed):							
Type:			<u>—</u>						_
Depth (inc	ches):						Hydric Soil Pr	esent? Yes	No <u> </u>
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Lowman	City/C	county: Gilbertown/Choctaw	Sampling Date: 2020-01-20
Applicant/Owner: NextEra		State: Alaba	ma Sampling Point: UP2080
Investigator(s): Tyler Russell, Kyle P	rice Section	on, Township, Range:	
Landform (hillslope, terrace, etc.): Upla		relief (concave, convex, none): Conv	/ex Slope (%): 2
	Lat: (b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BnE2	Lat.	<u> </u>	sification:
Are climatic / hydrologic conditions on the	he site typical for this time of year? Y	es No (If no, explain	in Remarks.)
Are Vegetation, Soil, or			es" present? YesNo
Are Vegetation, Soil, or			
SUMMARY OF FINDINGS - A			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	Is the Sampled Area	
Wetland Hydrology Present?	Yes No	within a Wetland? Yes	No
Remarks:	100 110		
Upland Sample point associated with v	wetlands W2080, W1132, and W1133	•	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary I	ndicators (minimum of two required)
Primary Indicators (minimum of one is	required; check all that apply)	Surface	Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		y Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRF		e Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (0	C1) Moss Tr	im Lines (B16)
☐ Water Marks (B1)	Oxidized Rhizospheres a	llong Living Roots (C3) 🔲 Dry-Sea	son Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iro	n (C4) \square Crayfish	Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6) Saturation	on Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	☐ Geomor	phic Position (D2)
Iron Deposits (B5)	Other (Explain in Remark	(s) Shallow	Aquitard (D3)
Inundation Visible on Aerial Image	ery (B7)	FAC-Ne	utral Test (D5)
Water-Stained Leaves (B9)		Sphagn	um moss (D8) (LRR T, U)
Field Observations:			
	No V Depth (inches):		
<u> </u>	No V Depth (inches):		
Saturation Present? Yes (includes capillary fringe)	No V Depth (inches):	Wetland Hydrology Pr	esent? Yes No <u> </u>
Describe Recorded Data (stream gaug	ge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:			
Hydrology not present			

	mes of pl	ants.		Sampling Point: UP2080
00.0		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) 1. Quercus alba	% Cover 15	Species? ✓	Status FACU	Number of Dominant Species That Are OBL_FACW_or_FAC: 1 (A)
Quercus falcata	15	<u> </u>	FACU	That Are OBL, FACW, or FAC: 1 (A)
Pinus taeda	10		FAC	Total Number of Dominant
			FACU	Species Across All Strata: 6 (B)
Fagus grandifolia	5			Percent of Dominant Species
5. Ilex opaca	5		FAC	That Are OBL, FACW, or FAC: 17 (A/B)
3. Quercus laurifolia	5		FACW	Prevalence Index worksheet:
7	0			
3	0			Total % Cover of: Multiply by:
	55% :	Total Cov	er	OBL species $\frac{0}{10}$ $x = \frac{0}{20}$
50% of total cover: <u>28</u>	20% of	total cover:	11	1 AOV species X Z =
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{25}{70}$ $\times 3 = \frac{75}{200}$
Fagus grandifolia	15	✓	FACU	FACU species $\frac{70}{x}$ $x = 4 = \frac{280}{x}$
llex opaca	10		FAC	UPL species 0 x 5 = 0
Juniperus virginiana	10		FACU	Column Totals: <u>105</u> (A) <u>375</u> (B)
Quercus falcata	10		FACU	
5. Quercus laurifolia	5		FACW	Prevalence Index = B/A = 3.6
* 	0			Hydrophytic Vegetation Indicators:
S	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:	10	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3	0			Top Manhanta analysis a Oir (70 am)
l	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
	0			Conting/Chart Mandy plants avaluating vince loss
o	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
3	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
)	0			of size, and woody plants less than 3.20 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
l1	<u> </u>			height.
12	0			
		Total Cov	er	
50% of total cover:	20% of	total cover:		
Noody Vine Stratum (Plot size: 30 ft r)				
l	0			
	0			
2		· <u></u>		
2. 3.	0			
2. 3. 4.	0 0			
3 I	<u> </u>			Hadaaah da
	0 0	- Total Cov		Hydrophytic Vegetation
3 1	0 0	= Total Cov		Hydrophytic Vegetation Present? Yes No

SOIL Sampling Point: UP2080

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirn	n the absence of in	ndicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks	
0-5	10YR 5/4	100					Loam		
5 - 20	10YR 5/6	100			-		Loamy sand		_
-									
-					-				
				-					
				-	-				_
	-								
	oncentration, D=De					ains.		Pore Lining, M=Matrix.	2
l <u> </u>	Indicators: (Appli	cable to all L			•			Problematic Hydric Soil	s°:
Histosol			Polyvalue Be		. , .			(A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su					(A10) (LRR S)	A 450A D\
Black Hi	stic (A3) n Sulfide (A4)		Loamy Muck	-		(O)		/ertic (F18) (outside MLR Floodplain Soils (F19) (LR	
	d Layers (A5)		Depleted Ma		(F2)			s Bright Loamy Soils (F20	
_	Bodies (A6) (LRR	P T U)	Redox Dark		F6)		(MLRA 1		,
= -	icky Mineral (A7) (L		Depleted Dai	•	,		,	t Material (TF2)	
	esence (A8) (LRR		Redox Depre					ow Dark Surface (TF12)	
	ıck (A9) (LRR P, T)		Marl (F10) (L		,			lain in Remarks)	
☐ Depleted	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangan					s of hydrophytic vegetation	
	rairie Redox (A16)					', U)		hydrology must be prese	nt,
	fucky Mineral (S1)	(LRR O, S)	Delta Ochric			OA 450D\		disturbed or problematic.	
	Sleyed Matrix (S4) Redox (S5)		Reduced Ver						
	Matrix (S6)						+9A) RA 149A, 153C, 153	אטי	
	rface (S7) (LRR P,	S. T. U)	Anomalous L	origint Loa	irry oons (1 20) (WILI	(A 149A, 1990, 190	30)	
	_ayer (if observed								
Type:			<u></u>						
Depth (in	ches):		<u> </u>				Hydric Soil Pres	sent? Yes N	o_ 🗸
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Lowman	City/County: Gilbertown/Choctaw	Sampling Date: 2020-01-20
Applicant/Owner: NextEra	State: Alabama	
Tyler Bussell Kyle Brice	Section, Township, Range:	. 0
	Local relief (concave, convex, none): Convex	Slope (%): 6
_	(b)(7)f Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BnE2	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of year		
Are Vegetation, Soil, or Hydrology significantly		
Are Vegetation, Soil, or Hydrology naturally pro		
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	
Hydric Soil Present? Yes No		No <u> </u>
Wetland Hydrology Present? Yes No		
Remarks: Upland Sample point associated with wetland W2081		
Opiana Sample point associated with wetland w2001		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13	3) Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)) (LRR U) Drainage Pa	tterns (B10)
Saturation (A3)		
		Water Table (C2)
Sediment Deposits (B2) Presence of Reduction Presence of Reductio	` ' 	
☐ Drift Deposits (B3) ☐ Recent Iron Reduct☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface		isible on Aerial Imagery (C9) Position (D2)
Iron Deposits (B5) Other (Explain in Re	· / — · · · · · · · · · · · · · · · · ·	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	
☐ Water-Stained Leaves (B9)	Sphagnum n	noss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth (inches)		
Water Table Present? Yes No Depth (inches)		,
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	: Wetland Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:	
Remarks: Hydrology not present		
Hydrology not present		

	Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 5 (B)
	~	FACU FACU FAC FACU	That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 5 (B)
		FACU FAC FACU	Total Number of Dominant Species Across All Strata: 5 (B)
		FACU	Species Across All Strata: 5 (B)
 		FACU	Species Across All Strata: 5 (B)
 			Boundary of Development Operation
		EAC	
		FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A/B
		FACW	That Ale OBE, I AOW, OI I AO.
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
	Total Cov	or	OBL species $0 x 1 = 0$
			FACW species 10 $\times 2 = 20$
20% 011	lotal cover.		FAC species 30 $\times 3 = 90$
	.,	FAC	FACU species 60 x 4 = 240
			UPL species 0 $x = 0$
			Column Totals: 100 (A) 350 (B)
			(A)
			Prevalence Index = $B/A = 3.5$
			Hydrophytic Vegetation Indicators:
		FACW	1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0¹
% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
			Problematic Hydrophytic Vegetation (Explain)
20 70 0			1
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
			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.
 -			neight.
			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.
	Total Cov	er	
,			
20 70 0			
 -			
 -			
			Hydrophytic
=	Total Cov	er	Vegetation Present? Yes No
	total cover:		riesent: les No
	20% of	20% of total cover: // // // // // // // // // // // // /	20% of total cover: 11 FAC FACU

SOIL Sampling Point: UP2081

	ription: (Describe	to the depth				or confirn	n the absence of	t indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 4/3	100					Loam		
3 - 20	2.5Y 4/6	100					Loamy sand		_
	-			· ——					
									 -
	-								
					-				
71	oncentration, D=De		·			ains.		PL=Pore Lining, M=Matri	
	Indicators: (Appli	cable to all L	_					or Problematic Hydric	Soils ³ :
Histosol			Polyvalue Be				. —	ick (A9) (LRR O)	
Black Hi	oipedon (A2)		Thin Dark Su					ick (A10) (LRR S) d Vertic (F18) (outside N	/II PA 150A R\
=	n Sulfide (A4)		Loamy Gleye	-		(0)		nt Floodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		. –,			ous Bright Loamy Soils (
Organic	Bodies (A6) (LRR	P, T, U)	Redox Dark	Surface (F	- 6)			A 153B)	•
_	ıcky Mineral (A7) (L		Depleted Da		` '			ent Material (TF2)	
_	esence (A8) (LRR		Redox Depre	•	8)			allow Dark Surface (TF1	2)
=	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Ocl		/MI DA 1	E4\	U Other (E	xplain in Remarks)	
	ark Surface (A12)	CE (ATT)	Iron-Mangan				T) ³ Indicat	tors of hydrophytic vege	tation and
=	rairie Redox (A16)	(MLRA 150A)	_					nd hydrology must be pi	
Sandy N	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unles	s disturbed or problema	tic.
=	Gleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo	•		•	•	152D)	
_	Matrix (S6) rface (S7) (LRR P,	S T III	Anomalous E	sright Loar	ny Solis (F20) (WILK	RA 149A, 153C, 1	ופאט)	
	_ayer (if observed								
Type:	``								
Depth (in	ches):		<u> </u>				Hydric Soil P	resent? Yes	No
Remarks:	,						1 -		·
Hydric soil no	ot present								
ı									
ı									
ı									

Project/Site: 1461 Lowman City/	County: Gilbertown/Choctaw	Sampling Date: 2020-01-21
Applicant/Owner: NextEra	State: Alabama	
Tylor Bussell Kylo Briss	tion, Township, Range:	
	al relief (concave, convex, none): Convex	Slope (%): 6
Subregion (LRR or MLRA): P Lat: (b)(7)f		Datum: WGS 84
Soil Map Unit Name: BnE2		tion:
Are climatic / hydrologic conditions on the site typical for this time of year?		
Are Vegetation, Soil, or Hydrology significantly distu		· ·
Are Vegetation, Soil, or Hydrology naturally problem		
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	
Hydric Soil Present? Yes No	-	No <u> </u>
Wetland Hydrology Present? Yes No	within a Wettana : 163	
Remarks:		
Upland Sample point associated with wetlands W2082 and W2083		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil 0	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1) Aquatic Fauna (B13)	_	etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LF		
Saturation (A3) Hydrogen Sulfide Odor		
		Vater Table (C2)
Sediment Deposits (B2) Presence of Reduced Ir	ron (C4) $\ \ \ \ \ \ \ \ \ \ \ \ \ $	ows (C8)
Drift Deposits (B3)	n Tilled Soils (C6)	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)) Geomorphic I	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remai	<u> </u>	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	
Water-Stained Leaves (B9)	Spnagnum m	oss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No _ ✓ Depth (inches):		
Water Table Present? Yes No _ Depth (inches):		
Saturation Present? Yes No Depth (inches):		t? Yes No ✔
(includes capillary fringe)		t: Tes NO
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	revious inspections), if available:	
Pomorko:		
Remarks: Hydrology not present		

	<u> </u>		
Cover		Indicator	Dominance Test worksheet:
5	Species? ✓	Status FAC	Number of Dominant Species
<u> </u>		TAC	That Are OBL, FACW, or FAC: $\frac{3}{}$ (A)
			Total Number of Dominant
			Species Across All Strata: 6 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 50 (A/B
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
5% =	Total Cov	er	OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$
20% of 1	total cover:	3	FACW species $0 \times 2 = 0$
			FAC species 50 x 3 = 150
5	~	FAC	FACU species <u>35</u> x 4 = <u>140</u>
)		FAC	UPL species 10 x 5 = 50
 -			Column Totals: <u>95</u> (A) <u>340</u> (B)
 -			Prevalence Index = $B/A = 3.6$
·			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0 ¹
<u> 5% </u>	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
20% of 1	total cover:	7	- Posicinate Hydrophytic Vegetation (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
)	~	FACU	be present, unless disturbed or problematic.
 5	·	FACU	Definitions of Four Vegetation Strata:
) -	~		Definitions of Four Vogetation Ordia.
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
			more in diameter at breast height (DBH), regardless of height.
			noight.
			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
			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			of size, and woody plants less than 3.28 ft tall.
·			
 			of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
5% =	Total Cov	 er	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
			of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
	Total Cov		of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
			of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
			of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
			of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
			of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
			of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in
20% of t	total cover:	9	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
20% of t		9	of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
	20% of 1 5 0 	20% of total cover: 5	FAC FAC FAC FAC FAC FAC FAC FAC

SOIL Sampling Point: UP2082/UP2083

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	ndicator	or confirn	n the absence of	indicators.)	-
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Rema	ırks
0-3	7.5YR 4/3	100					Loam		
3 - 20	7.5YR 4/4	100		· <u></u>			Loamy sand		
-									
				· 					
<u> </u>									
							·		
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	educed Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: PL	=Pore Lining, M=	:Matrix.
Hydric Soil	Indicators: (Appli	cable to all LF	Rs, unless other	wise not	ed.)		Indicators for	r Problematic Hy	dric Soils ³ :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, l	J) 📙 1 cm Muc	k (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su					k (A10) (LRR S)	
Black Hi			Loamy Mucky		. , .	R O)	7 7		side MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)				(F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR I	D T II)	Depleted Mat	` ,	-6)		(MLRA	is Bright Loamy S	olis (F20)
	icky Mineral (A7) (L		Depleted Dar	•	•		,	nt Material (TF2)	
	esence (A8) (LRR		Redox Depre					low Dark Surface	(TF12)
	ıck (A9) (LRR P, T)		Marl (F10) (L				Other (Ex	plain in Remarks)	,
	d Below Dark Surfa	ce (A11)	Depleted Och				•		
ı ==	ark Surface (A12)	/## DA 450A\	Iron-Mangan					ors of hydrophytic	-
	rairie Redox (A16) (lucky Mineral (S1)	•	Umbric Surfa			, U)		d hydrology must disturbed or prob	•
	Bleyed Matrix (S4)	(LKK 0, 3)	Delta Ochric Reduced Ver			.0Δ 150R)		disturbed or prob	nematic.
_	tedox (S5)		Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P,								
Restrictive I	_ayer (if observed):							
Type:									
Depth (inc	ches):						Hydric Soil Pro	esent? Yes	No <u> </u>
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Lowman	City/Cou	unty: Gilbertown/Choctaw	Sampling Date: 2020-01-21
Applicant/Owner: NextEra			ima Sampling Point: UP2084/UP2085
Investigator(s): Tyler Russell, Kyle Price	Section	, Township, Range:	
Landform (hillslope, terrace, etc.): Upland		elief (concave, convex, none): Conv	/ex Slope (%): 5
Subregion (LRR or MLRA):		Long: (b)(7)f	
Soil Map Unit Name: WaB	Lat.		sification:
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	s No (If no, explain	in Remarks.)
Are Vegetation, Soil, or Hydrology			ces" present? YesNo
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach site			
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No I	s the Sampled Area	
Wetland Hydrology Present? Yes	No	within a Wetland? Yes	No
Remarks:			
Upland Sample point associated with wetlands W20	84 and W2085		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary I	ndicators (minimum of two required)
Primary Indicators (minimum of one is required; che	ck all that apply)	Surface	Soil Cracks (B6)
	quatic Fauna (B13)		y Vegetated Concave Surface (B8)
	larl Deposits (B15) (LRR I		e Patterns (B10)
1 	ydrogen Sulfide Odor (C1	_	rim Lines (B16)
	xidized Rhizospheres alo		ason Water Table (C2)
1 	resence of Reduced Iron ecent Iron Reduction in Ti		n Burrows (C8) on Visible on Aerial Imagery (C9)
	hin Muck Surface (C7)		rphic Position (D2)
	ther (Explain in Remarks)	=	Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		=	eutral Test (D5)
Water-Stained Leaves (B9)		Sphagn	um moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
	Depth (inches):	Wetland Hydrology Pr	resent? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previo	ous inspections), if available:	
		, ,	
Remarks:			
Hydrology not present			

20.4 -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	5		FAC	That Are OBL, FACW, or FAC: 2 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	5% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 3	20% of	total cover	. 1	FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species <u>55</u> x 3 = <u>165</u>
1. Pinus taeda	35	~	FAC	FACU species <u>45</u> x 4 = <u>180</u>
2. Ilex vomitoria	5		FAC	UPL species 10 x 5 = 50
	0			Column Totals: <u>110</u> (A) <u>395</u> (B)
3	0			
4	0			Prevalence Index = B/A = 3.6
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	- 			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% of	total cover	8	
Herb Stratum (Plot size: 5 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Eupatorium capillifolium	25		FACU	be present, unless disturbed or problematic.
2. Lonicera japonica	20		FACU	Definitions of Four Vegetation Strata:
3. Ilex vomitoria	10		FAC	Tree Mondy plants evaluding vince 2 in (7.6 cm) or
4. Rubus allegheniensis	10		UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10	0			of size, and woody plants loss than 6.25 it tall.
	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12				
22		Total Cov		
50% of total cover: <u>33</u>	20% of	total cover	: 13	
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	0			
2				
3	0			
4	0			
5	0			Hydrophytic
	=	= Total Cov	er er	Vegetation
50% of total cover:	20% of	total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations below				1
Hydrophytic vegetation not present	/-			

Sampling Point: UP2084/UP2085

SOIL Sampling Point: UP2084/UP2085

Profile Desc	ription: (Describe	e to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	Texture	Remarks	
0-3	10YR 4/3	100					Loam		
3 - 20	10YR 4/4	100					Loamy sand		
-									
-									<u> </u>
		-			-				
									
l 	-								
	oncentration, D=De					ains.		=Pore Lining, M=Mat	
	Indicators: (Appli	cable to all LF			•			Problematic Hydrid	Soils":
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su		. , .		. —	k (A9) (LRR O) k (A10) (LRR S)	
Black Hi			Loamy Muck					Vertic (F18) (outside	MI RA 150A B)
_	en Sulfide (A4)		Loamy Gleye		. , .	. •,		Floodplain Soils (F19	
	d Layers (A5)		Depleted Mar		` ,			is Bright Loamy Soils	
	Bodies (A6) (LRR		Redox Dark	Surface (F	- 6)		(MLRA	,	
	ıcky Mineral (A7) (L		Depleted Dar					nt Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			low Dark Surface (TF	12)
_	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Oct	•	(MI RA 1	51)	Uther (Ex	plain in Remarks)	
	ark Surface (A12)	00 (/ (/ / /	Iron-Mangan				, T) ³ Indicato	rs of hydrophytic veg	etation and
1 	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa					d hydrology must be	
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	-RA 151)		unless	disturbed or problem	atic.
	Sleyed Matrix (S4)		Reduced Ver						
	Redox (S5)		Piedmont Flo					-2D)	
_	Matrix (S6) rface (S7) (LRR P,	S T III	Anomaious E	ingni Loai	my Solis (F20) (WILF	RA 149A, 153C, 15	30)	
	Layer (if observed								
Type:		,-							
, , , <u> </u>	ches):		_				Hydric Soil Pre	esent? Yes	No 🗸
Remarks:			<u> </u>				1		
Hydric soil no	ot present								

Project/Site: 1461 Lowman		City/County: Gill	pertown/Choctaw	Sampling Date: 2020-01-21
Applicant/Owner: NextEra			State: Alabama	
Investigator(s): Tyler Russell, Kyle Pric	e e	Section, Townsh	ip. Range:	
Landform (hillslope, terrace, etc.): Upland			ave, convex, none): Convex	Slope (%): <u>5</u>
· · · · · · · · · · · · · · · · · · ·		(b)(7)f		Datum: WGS 84
Soil Map Unit Name: WaB			NWI classifica	
Are climatic / hydrologic conditions on the	site typical for this tim	e of year? Ves		
Are Vegetation, Soil, or Hy			Are "Normal Circumstances" p	
		•	·	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hy	-		(If needed, explain any answe	
SUMMARY OF FINDINGS – Att	ach site map sho	wing sampling po	oint locations, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes No	ls the Sar	npled Area	
Hydric Soil Present?	Yes No	within a \	•	No 🗸
Wetland Hydrology Present?	Yes No	<u>/</u>		
Remarks:	tland MOOR			
Upland Sample point associated with we	tiand vv2086			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is re	equired: check all that a	apply)	Surface Soil	
Surface Water (A1)	Aquatic Faur		-	getated Concave Surface (B8)
High Water Table (A2)		s (B15) (LRR U)	Drainage Pa	
Saturation (A3)		ulfide Odor (C1)	Moss Trim L	
Water Marks (B1)		izospheres along Living		Water Table (C2)
Sediment Deposits (B2)	Presence of	Reduced Iron (C4)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	Recent Iron	Reduction in Tilled Soils	(C6) Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	☐ Thin Muck S	urface (C7)	Geomorphic	Position (D2)
Iron Deposits (B5)		in in Remarks)	Shallow Aqu	
Inundation Visible on Aerial Imagery	/ (B7)		FAC-Neutral	· /
☐ Water-Stained Leaves (B9)			☐ Sphagnum r	noss (D8) (LRR T, U)
Field Observations:				
		nches):		
1	· ·	nches):		
Saturation Present? Yes (includes capillary fringe)	No Depth (i	nches):	Wetland Hydrology Preser	nt? Yes No <u>/</u>
Describe Recorded Data (stream gauge	, monitoring well, aeria	l photos, previous inspe	ctions), if available:	
Remarks: Hydrology not present				

EGETATION (Four Strata) - Use s	cientific names of pl	ants.		Sampling Point: UP2086
20# *		Dominant		Dominance Test worksheet:
Free Stratum (Plot size: 30 ft r	·	Species?		Number of Dominant Species
Pinus taeda			FAC	That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
l	0			
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
5	^			Matrie Obe, From, of Fro.
	_			Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
3	5 0/	T-4-1 O-1		OBL species $0 x 1 = 0$
		Total Cov		FACW species $0 x 2 = 0$
	cover: <u>3</u> 20% of	total cover	<u>'</u>	FAC species 60 x 3 = 180
Sapling/Shrub Stratum (Plot size: 30 ft r)		E40	FACU species 45
Pinus taeda	35		FAC	UPL species 10 x 5 = 50
2	0			·
3	0			Column Totals: <u>115</u> (A) <u>410</u> (B)
l	0			Prevalence Index = B/A = 3.6
5.	0			Hydrophytic Vegetation Indicators:
S	•			
7	^	-		1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
		Total Cov	_	☐ Problematic Hydrophytic Vegetation¹ (Explain)
50% of total	cover: <u>18</u> 20% of	total cover:		
Herb Stratum (Plot size: 30 ft r)		= 4 0 1 1	¹ Indicators of hydric soil and wetland hydrology must
1. Eupatorium capillifolium	25		FACU	be present, unless disturbed or problematic.
Lonicera japonica	20		FACU	Definitions of Four Vegetation Strata:
3. Andropogon virginicus	10		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
1. Ilex vomitoria	10		FAC	more in diameter at breast height (DBH), regardless of
Rubus allegheniensis	10		UPL	height.
S	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3.	0			
	0			Herb – All herbaceous (non-woody) plants, regardless
).				of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
l1	0			height.
12	0			
	75% :	Total Cov	er	
50% of total	cover: 38 20% of	total cover:	15	
Noody Vine Stratum (Plot size: 30 ft r)			
I	0			
2.	^			
3	0			
··				
5				Hydrophytic
				Vegetation Present? Ves No
50% of total	cover: 20% of	total cover:		11636Ht: 163 NO
	cover: 20% of	Total Cov		Hydrophytic Vegetation Present? Yes No

SOIL Sampling Point: UP2086

(inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Type¹ L	OO 2 Touture	Remarks
(inches) 0 - 12	10YR 4/3	<u>%</u> _	Color (moist) % Type ¹ L	oc ² <u>Texture</u> _ Loam	Remarks
12 - 20	10YR 5/4	100		Loamy sand	
12 - 20	10113/4			Loanly sailu	
	-				
-					
-					
-					
Гуре: С=С	oncentration, D=De	epletion, RM=F	Reduced Matrix, MS=Masked Sand Grain	ns. ² Location: P	L=Pore Lining, M=Matrix.
lydric Soil	ndicators: (Appl	icable to all L	RRs, unless otherwise noted.)	Indicators fo	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Below Surface (S8) (LRI		ck (A9) (LRR O)
= '	pipedon (A2)		Thin Dark Surface (S9) (LRR S, T,		ck (A10) (LRR S)
Black Hi	stic (A3) n Sulfide (A4)		Loamy Mucky Mineral (F1) (LRR C		l Vertic (F18) (outside MLRA 150A, E t Floodplain Soils (F19) (LRR P, S, T
	l Layers (A5)		Depleted Matrix (F3)	- I	ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P, T, U)	Redox Dark Surface (F6)		(153B)
5 cm Mu	cky Mineral (A7) (LRR P, T, U)	Depleted Dark Surface (F7)		ent Material (TF2)
_	esence (A8) (LRR		Redox Depressions (F8)		allow Dark Surface (TF12)
=	ick (A9) (LRR P, T d Below Dark Surfa	•	Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)		xplain in Remarks)
= '	ark Surface (A12)	ace (ATT)	Iron-Manganese Masses (F12) (LF		ors of hydrophytic vegetation and
=	rairie Redox (A16)	(MLRA 150A)			nd hydrology must be present,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric (F17) (MLRA 151)		s disturbed or problematic.
_	Sleyed Matrix (S4)		Reduced Vertic (F18) (MLRA 1504	•	
_	edox (S5) Matrix (S6)		Piedmont Floodplain Soils (F19) (N Anomalous Bright Loamy Soils (F2		E2D)
= ''	rface (S7) (LRR P ,	. S. T. U)	Anomalous Bright Loamy Solis (12	0) (WILKA 149A, 193C, 1	330)
	_ayer (if observed				
Type:			<u></u>		
Depth (in	ches):		<u></u>	Hydric Soil P	resent? Yes No 🔽
Remarks:				"	
lydric soil no	ot present				

Project/Site: 1461 Lowman	City/County:	Gilbertown/Choctaw	Sampling Date: 2020-01-22
Applicant/Owner: NextEra		Gilbertown/Choctaw State: Alabama	Sampling Point: UP2087
Investigator(s): Tyler Russell, Kyle Price		wnship, Range:	
Landform (hillslope, terrace, etc.): Upland		(concave, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P		Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BnC		_	tion:
Are climatic / hydrologic conditions on the site typical for	r this time of year? Yes	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site ma			
Hadarah fa Vandafar Baran 10	No. W	 	· · ·
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No V	e Sampled Area	
Wetland Hydrology Present? Yes	No vith	in a Wetland? Yes	No
Remarks:			
Upland Sample point associated with wetland W2087			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Cracks (B6)
	atic Fauna (B13)		getated Concave Surface (B8)
	Deposits (B15) (LRR U)	<u></u> Drainage Pa	
	rogen Sulfide Odor (C1)	Moss Trim Li	, ,
	dized Rhizospheres along L		Water Table (C2)
1 	sence of Reduced Iron (C4) ent Iron Reduction in Tilled	_	sible on Aerial Imagery (C9)
	Muck Surface (C7)	_	Position (D2)
	er (Explain in Remarks)	Shallow Aqu	` '
Inundation Visible on Aerial Imagery (B7)	- (FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):	-	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Preser	t? Yes No
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous	inspections), if available:	
Remarks:			
Hydrology not present			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: <u>UP2087</u>

20.4	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species	? Status	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4.	0			
5.	0	-		Percent of Dominant Species That Are OBL FACW or FAC: 33 (A/R)
	0	-		That Are OBL, FACW, or FAC: 33 (A/B)
6	0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8	- 			OBL species $0 x 1 = 0$
		= Total Co		FACW species $0 \times 2 = 0$
50% of total cover:	20% of	total cove	er:	FAC species 25 x 3 = 75
Sapling/Shrub Stratum (Plot size: 30 ft r)				
1	0			FACU species 65 x 4 = 260
2	0			UPL species $\frac{10}{400}$ x 5 = $\frac{50}{205}$
3	0			Column Totals: 100 (A) 385 (B)
4.	0			Prevalence Index = B/A = 3.9
5.	0			-
	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0 ¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Eupatorium capillifolium	45		FACU	be present, unless disturbed or problematic.
2. Andropogon virginicus	15		FAC	Definitions of Four Vegetation Strata:
3. Trifolium pratense	15	~	FACU	To a Manda de planta accidentia periode a O in (7.0 pm) an
4. Ilex vomitoria	10		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
Rubus allegheniensis	10		UPL	height.
6 Lonicera japonica	5	-	FACU	
<u> </u>	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			than 6 m. BBT and greater than 6.20 ft (1 m) tail.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	- 			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	100% :	= Total Co	over	
50% of total cover: 50	20% of	total cove	er: 20	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0	-		
3.	0	-		
	0			
4	0			
5	- 			Hydrophytic
		= Total Co		Vegetation Present? Yes No
50% of total cover:	20% of	total cove	er:	Tresent: res No
Remarks: (If observed, list morphological adaptations beli	ow).			
Hydrophytic vegetation not present				

SOIL Sampling Point: UP2087

Profile Desc	ription: (Describe	e to the depth	needed to docum	nent the i	indicator	or confirn	n the absence of	indicators.)	-
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Rema	arks
0 - 10	10YR 4/3	100					Loam		
10 - 20	10YR 5/4	100			. <u></u>		Loamy sand		
-									
				-					
	-								
-									
¹Type: C=Co	oncentration, D=De	nletion RM=R	educed Matrix MS	S=Masker	d Sand Gr	ains	² Location: PL	=Pore Lining, M=	=Matrix
	Indicators: (Appli					airio.		r Problematic Hy	
☐ Histosol			Polyvalue Be		•	RRSTI		k (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su		. , .		_	k (A10) (LRR S)	
Black Hi			Loamy Muck						side MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye	d Matrix ((F2)				(F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Mar	trix (F3)			<u> </u>	ıs Bright Loamy S	Soils (F20)
	Bodies (A6) (LRR		Redox Dark	Surface (F	- 6)		☐ (MLRA	,	
	ıcky Mineral (A7) (L		Depleted Dar					nt Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			low Dark Surface	,
_	ick (A9) (LRR P, T)		Marl (F10) (L	•	/MI DA 4	E4\	U Other (Ex	plain in Remarks)
	d Below Dark Surfa ark Surface (A12)	ce (ATT)	Depleted Och				T) ³ Indicate	ors of hydrophytic	vegetation and
ı ==	rairie Redox (A16)	(MI RA 150A)	Umbric Surfa					d hydrology must	-
	lucky Mineral (S1)	•	Delta Ochric			, •,		disturbed or prob	
_	Gleyed Matrix (S4)	(Reduced Ver			0A, 150B)		, , , , , , , , , , , , , , , , , , ,	
_	Redox (S5)		Piedmont Flo						
Stripped	Matrix (S6)		Anomalous B	Bright Loai	my Soils (F20) (MLF	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P,								
Restrictive I	_ayer (if observed):							
Type:			<u> </u>						
Depth (inc	ches):		<u> </u>				Hydric Soil Pr	esent? Yes	No <u> </u>
Remarks:							1		
Hydric soil no	ot present								

Project/Site: 1461 Lowman		City/C	ounty: Gilbertown/Ch	octaw	Sampling Date: 2020-01-22
Applicant/Owner: NextEra				State: Alabama	Sampling Date: 2020-01-22 Sampling Point: UP2088
Investigator(s): Tyler Russell, Kyle			on, Township, Range: _		
Landform (hillslope, terrace, etc.): Up					Slope (%): 2
Subregion (LRR or MLRA): P		Lat: (b)(7)f		(b)(7)f	Datum: WGS 84
Soil Map Unit Name: MbF2			20119.		tion:
Are climatic / hydrologic conditions or	n the site typical for th	nis time of year? Yo	es V No		
Are Vegetation, Soil,					
Are Vegetation, Soil,				explain any answe	
_					
SUMMARY OF FINDINGS –	Attach site map	Showing Sam	ipiing point iocati	ons, transects	, important leatures, etc.
Hydrophytic Vegetation Present?	Yes	No	Is the Sampled Area		
Hydric Soil Present?	Yes	No	within a Wetland?	Yes	No <u> </u>
Wetland Hydrology Present? Remarks:	Yes	No			
Upland Sample point associated wit	h wetland W2088				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one	is required; check al	I that annly)		Surface Soil	
Surface Water (A1)		c Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		eposits (B15) (LRF	R U)	Drainage Pat	, ,
Saturation (A3)		gen Sulfide Odor (C		Moss Trim Li	
Water Marks (B1)	— · ·	•	long Living Roots (C3)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Preser	nce of Reduced Iron	n (C4)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	Recen	t Iron Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin M	luck Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)	U Other	(Explain in Remark	s)	Shallow Aqui	tard (D3)
Inundation Visible on Aerial Ima	agery (B7)			FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)				Sphagnum m	noss (D8) (LRR T, U)
Field Observations:					
	No Do				
	No Do				
Saturation Present? Yes (includes capillary fringe)	No 🖍 De	epth (inches):	Wetland	Hydrology Presen	t? Yes No
Describe Recorded Data (stream ga	auge, monitoring well.	, aerial photos, pre	vious inspections), if av	ailable:	
Remarks:					
Hydrology not present					

Sampling Point: <u>UP208</u>8 VEGETATION (Four Strata) - Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30 ft r % Cover Species? Status **Number of Dominant Species** 2____(A) That Are OBL, FACW, or FAC: **Total Number of Dominant** 0 4 ____ (B) Species Across All Strata: 0 Percent of Dominant Species 0 50 That Are OBL, FACW, or FAC: _ (A/B) 0 Prevalence Index worksheet: 0 Total % Cover of: Multiply by: 0 0 x 1 = 0OBL species = Total Cover FACW species 0 x 2 = 0__ 20% of total cover: ___ 50% of total cover: ___ 45 ____ x 3 = 135 FAC species Sapling/Shrub Stratum (Plot size: 30 ft r FACU species 50 x 4 = 2001. Pinus taeda ✔ FAC 10 x 5 = 50 UPL species ___ (A) <u>385</u> Column Totals: 105 0 0

··· -				Prevalence Index = B/A = 3.7
5	$-\frac{0}{0}$			Hydrophytic Vegetation Indicators:
6	- -		. .	1 - Rapid Test for Hydrophytic Vegetation
7	_ 0	_		2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	10%	_= Total Co	_	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% c	of total cove	er: 2	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Eupatorium capillifolium	30		FACU	be present, unless disturbed or problematic.
2. Andropogon virginicus	15		FAC	Definitions of Four Vegetation Strata:
3. Trifolium pratense	15		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Ilex vomitoria	10		FAC	more in diameter at breast height (DBH), regardless of
5. Pinus taeda	10		FAC	height.
6. Rubus allegheniensis	10		UPL	Sapling/Shrub – Woody plants, excluding vines, less
7. Lonicera japonica	5		FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			Herb – All herbaceous (non-woody) plants, regardless
9.	0			of size, and woody plants less than 3.28 ft tall.
10.	0			Manda di Cina Alla canda cina anno tanthan 2 20 ft in
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0			115-9.11
	95%	= Total Co	over	
50% of total cover: 48		of total cove		
Woody Vine Stratum (Plot size: 30 ft r)		J. 1010. 0070	···	
1.	0			
2.	0			
3	0			
	0	-	-	
4 5.	0			
5		- Total Ca		Hydrophytic Vegetation
		_= Total Co		Present? Yes No
50% of total cover:		of total cove	er:	
Remarks: (If observed, list morphological adaptations bel	low).			
Hydrophytic vegetation not present				
IS Army Corps of Engineers				Atlantic and Gulf Coastal Plain Region – Version 2.0
· · · · ·				•

SOIL Sampling Point: UP2088

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	indicator	or confirm	n the absence of	indicato	rs.)	
Depth	Matrix			x Feature		. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	Texture		Remarks	_
0 - 4	7.5YR 4/4	_ 100 _					Clay loam			
4 - 20	7.5YR 4/6	100					Clay loam			
-										
	-									
										
1							2			
	oncentration, D=De Indicators: (Appli					ains.	Location: P		ning, M=Matri	
Histosol		cable to all Li	Polyvalue Be		•	DD C T I		ck (A9) (L	-	Jons .
_	oipedon (A2)		Thin Dark Su		. , .		· —	ck (A9) (L ck (A10) (•	
Black Hi			Loamy Muck							MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye			•				(LRR P, S, T)
	d Layers (A5)		Depleted Mar					-	Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark	•	,		,	153B)	. (====)	
	icky Mineral (A7) (L esence (A8) (LRR		Depleted Dar Redox Depre					ent Materia	al (TF2) :Surface (TF1	2)
	ick (A9) (LRR P, T)		Marl (F10) (L		0)			xplain in F	•	2)
	d Below Dark Surfa		Depleted Och	•	(MLRA 1	51)	00. (2		10	
Thick Da	ark Surface (A12)		Iron-Mangan				T) ³ Indicate	ors of hyd	rophytic vege	tation and
	rairie Redox (A16)		Umbric Surfa			', U)		-	gy must be p	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			OA 450D)		s disturbe	d or problema	itic.
_	Gleyed Matrix (S4) Redox (S5)		Reduced Ver Piedmont Flo							
	Matrix (S6)						RA 149A, 153C, 1	53D)		
	rface (S7) (LRR P,	S, T, U)	_	J	, (- / (,,	,		
Restrictive I	Layer (if observed):								
Type:			_							
Depth (inc	ches):		<u> </u>				Hydric Soil P	resent?	Yes	No <u>′</u>
Remarks:										
Hydric soil no	ot present									

Project/Site: 1461 Lowman	Cit	y/County: Gilbertown/Cho	ctaw	Sampling Date: 2020-01-22
Applicant/Owner: NextEra		, ,	State: Alabama	Sampling Point: UP2089
Investigator(s): Tyler Russell, Kyle Price	e Se	ction, Township, Range:		. 0
Landform (hillslope, terrace, etc.): Upland		cal relief (concave, convex,		Slope (%): 2
	Lat: (b)(7)		(b)(7)f	Datum: WGS 84
Soil Map Unit Name: ByB	Lat.	Long.	NWI classifica	
Are climatic / hydrologic conditions on the	site typical for this time of year?	Yes No (
Are Vegetation, Soil, or Hyd				present? YesNo
Are Vegetation, Soil, or Hyd			explain any answe	
SUMMARY OF FINDINGS – Atta				
SOWIMANT OF FINDINGS - Atta	The map showing se		iis, transects	, important leatures, etc.
Hydrophytic Vegetation Present?	Yes No	Is the Sampled Area		
Hydric Soil Present?	Yes No	within a Wetland?	Yes	No <u> </u>
	Yes No		<u> </u>	
Remarks: Upland Sample point associated with wetl	land W2089			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is red			Surface Soil	
Surface Water (A1)	Aquatic Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (L		Drainage Pat	
Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odo	s along Living Roots (C3)	Moss Trim Li	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced		Crayfish Buri	
Drift Deposits (B3)	Recent Iron Reduction	, ,		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C			Position (D2)
Iron Deposits (B5)	Other (Explain in Rem		Shallow Aqui	` '
Inundation Visible on Aerial Imagery	(B7)		FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)			Sphagnum m	noss (D8) (LRR T, U)
Field Observations:				
	_ No _ V Depth (inches): _			
1	_ No _ V Depth (inches): _			
Saturation Present? Yes (includes capillary fringe)	No V Depth (inches):	Wetland H	lydrology Presen	t? Yes No
Describe Recorded Data (stream gauge,	monitoring well, aerial photos,	previous inspections), if ava	ilable:	
Remarks: Hydrology not present				

olute			
	Dominant		Dominance Test worksheet:
Cover	Species?		Number of Dominant Species
		FACU	That Are OBL, FACW, or FAC: 3 (A)
			Total Number of Dominant
			Species Across All Strata: 7 (B)
			D
			Percent of Dominant Species That Are OBL, FACW, or FAC: 43 (A/B)
			That Ale OBE, I AOW, OF I AO.
	_		Prevalence Index worksheet:
 -			Total % Cover of: Multiply by:
<u> </u>			OBL species $0 x 1 = 0$
			FACW species $0 x 2 = 0$
U% of 1	total cover:		FAC species 40 x 3 = 120
		F AC	FACU species 50 x 4 = 200
			UPL species 10 x 5 = 50
	✓		
		FAC	Column Totals: <u>100</u> (A) <u>370</u> (B)
			Prevalence Index = B/A = 3.7
		¯	Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
<u> </u>			3 - Prevalence Index is ≤3.0 ¹
		_	Problematic Hydrophytic Vegetation ¹ (Explain)
0% of 1	total cover:		
	_	E4011	¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
		FAC	Definitions of Four Vegetation Strata:
	~	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
	~	UPL	more in diameter at breast height (DBH), regardless of
		FACU	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.
 -			of size, and woody plants less than 3.20 it tall.
			Woody vine – All woody vines greater than 3.28 ft in
			height.
<u>%</u> =	Total Cov	er	
0% of 1	total cover:	10	
·			
:			
·			Hydrophytic
	· Total Cov	er	Hydrophytic Vegetation Present? Yes No _ ✓
2	20% of	20% of total cover:	### FAC

SOIL Sampling Point: UP2089

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of	indicato	rs.)	
Depth	Matrix			x Feature		. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-2	7.5YR 4/4	100		·			Clay loam			
2 - 20	7.5YR 4/6	100					Clay loam			
-										
-										_
				·						_
					-					
										
-				·						
	oncentration, D=De					ains.			ning, M=Matri	
l	Indicators: (Appli	cable to all LF			•		Indicators fo		-	Soils":
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su		. , .		. —	ck (A9) (L ck (A10) (•	
Black Hi			Loamy Muck							MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			. •,				(LRR P, S, T)
	Layers (A5)		Depleted Ma		,				Loamy Soils (
	Bodies (A6) (LRR		Redox Dark	•	,		☐ (MLRA	,		
	icky Mineral (A7) (L		Depleted Dar					ent Materia	` ,	0,
	esence (A8) (LRR ick (A9) (LRR P, T)		Redox Depre		8)			illow Dark xplain in F	Surface (TF1	2)
_	d Below Dark Surfa		Depleted Och	•	(MLRA 1	51)	U Other (L)	kpiaiii iii r	ciliaiks)	
· = ·	ark Surface (A12)	(/	Iron-Mangan	. ,	•	•	T) ³ Indicate	ors of hyd	rophytic vege	tation and
Coast Pi	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa					nd hydrold	gy must be p	resent,
_	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					s disturbe	d or problema	tic.
_	Gleyed Matrix (S4)		Reduced Ver							
	ledox (S5) Matrix (S6)		Piedmont Flo				ња) RA 149A, 153C, 1	53D)		
_	rface (S7) (LRR P,	S. T. U)	Anomalous L	night Loai	Try Solis (1 20) (WILI	A 149A, 133C, 1	33D)		
	_ayer (if observed									
Type:										
Depth (inc	ches):		<u></u>				Hydric Soil Pr	resent?	Yes	No 🗸
Remarks:										
Hydric soil no	ot present									

Project/Site: 1461 Lowman	City/County: Gilk	ertown/Choctaw	Sampling Date: 2020-01-22
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2090
Investigator(s): Tyler Russell, Kyle Price	Section, Townshi		
Landform (hillslope, terrace, etc.): Upland		ave, convex, none): Convex	Slope (%): 2
Subregion (LRR or MLRA): P			Datum: WGS 84
Soil Map Unit Name: ByB	Lat		ution:
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	No (If no, explain in R	
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site r			
			, important routures, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sar	npled Area	
Hydric Soil Present? Yes	No within a V	Vetland? Yes	No <u> </u>
Wetland Hydrology Present? Yes Remarks:	No within a v		
Upland Sample point associated with wetland W2090	0		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	quatic Fauna (B13)	Sparsely Veg	getated Concave Surface (B8)
	arl Deposits (B15) (LRR U)	Drainage Pa	
1 	ydrogen Sulfide Odor (C1)	<u>∐</u> Moss Trim Li	' '
	xidized Rhizospheres along Living		Water Table (C2)
1 	resence of Reduced Iron (C4) ecent Iron Reduction in Tilled Soils	C(C6) Crayfish Burn	rows (C8) sible on Aerial Imagery (C9)
	nin Muck Surface (C7)		Position (D2)
	ther (Explain in Remarks)	Shallow Aqui	` '
Inundation Visible on Aerial Imagery (B7)	arer (Explain in remaine)	FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
Saturation Present? Yes No	Depth (inches):	Wetland Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspe	ctions), if available:	
Remarks: Hydrology not present			

5 Other town (District - 30 ff r		Dominant		Dominance Test worksheet:
ree Stratum (Plot size: 30 ft r) Fagus grandifolia	<u>% Cover</u> 15	Species? ✓	FACU	Number of Dominant Species
	10	<u> </u>	FAC	That Are OBL, FACW, or FAC: 5 (A)
Pinus taeda	- —		FAC	Total Number of Dominant _
Liquidambar styraciflua	- 5			Species Across All Strata: 7 (B)
Ulmus americana	5		FAC	Percent of Dominant Species
i	0			That Are OBL, FACW, or FAC: 71 (A/B
)	0			Prevalence Index worksheet:
·	0			
. <u> </u>	0			Total % Cover of: OBL species Multiply by: x 1 = 0
	35% =	Total Cov	er	
·	20% of	total cover:	7	FACW species $\frac{0}{73}$ $\times 2 = \frac{0}{219}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{73}{32}$ $\times 3 = \frac{219}{138}$
_ Liquidambar styraciflua	15		FAC	FACU species $\frac{32}{5}$ $x 4 = \frac{128}{25}$
llex opaca	10	✓	FAC	UPL species $\frac{5}{110}$ $\times 5 = \frac{25}{200}$
Pinus taeda	5		FAC	Column Totals: <u>110</u> (A) <u>372</u> (B)
Ulmus americana	5		FAC	Prevalence Index = B/A = 3.4
5.	0			
	0			Hydrophytic Vegetation Indicators:
S	0		-	1 - Rapid Test for Hydrophytic Vegetation
·	0			2 - Dominance Test is >50%
3	- 	Total Cov		3 - Prevalence Index is ≤3.0 ¹
10			_	☐ Problematic Hydrophytic Vegetation¹ (Explain)
	20% of	total cover:		
				1 Indicators of budgie soil and watland budgeless, must
Herb Stratum (Plot size: 30 π r)	45		EAGLI	¹ Indicators of hydric soil and wetland hydrology must
Eupatorium capillifolium	15		FACU	be present, unless disturbed or problematic.
Eupatorium capillifolium Pinus taeda	10	<u>'</u>	FAC	
Eupatorium capillifolium Pinus taeda Andropogon virginicus	10		FAC FAC	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis	10 8 5	<u>'</u>	FAC FAC UPL	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis	10 8 5 2	<u>'</u>	FAC FAC	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2 0	<u>'</u>	FAC FAC UPL	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2	<u>'</u>	FAC FAC UPL	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.
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2 0	<u>'</u>	FAC FAC UPL	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.
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2 0	<u>'</u>	FAC FAC UPL	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2 0 0	<u>'</u>	FAC FAC UPL	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.
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2 0 0 0	<u>'</u>	FAC FAC UPL	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica 3. 4. 5. 6. 7. 7. 8. 9. 1.	10 8 5 2 0 0 0 0	<u>'</u>	FAC FAC UPL	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.
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica 3. 4. 5. 6. 6. 7. 7. 8. 9. 10. 11.	10 8 5 2 0 0 0 0 0 0		FAC UPL FACU	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica 3. 4. 5. 6. 7. 8. 9. 1. 1. 2.	10 8 5 2 0 0 0 0 0 0 0 0 0 0 0	V V	FAC UPL FACU	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2 0 0 0 0 0 0 0 0 0 0 0		FAC UPL FACU	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2 0 0 0 0 0 0 0 0 40% =	V V	FAC UPL FACU	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica 3. 3. 4. 5. 6. 7. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	10 8 5 2 0 0 0 0 0 0 0 0 0 40% = 20% of	V V	FAC UPL FACU	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica 3. 4. 8. 9. 10. 11. 12. Moody Vine Stratum (Plot size: 30 ft r)	10 8 5 2 0 0 0 0 0 0 0 0 0 40% = 20% of	V V	FAC UPL FACU	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica 3. 4. 8. 9. 10. 11. 12. Moody Vine Stratum (Plot size: 30 ft r)	10 8 5 2 0 0 0 0 0 0 0 40% = 20% of 0	V V	FAC UPL FACU	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica	10 8 5 2 0 0 0 0 0 0 0 0 40% = 0 0 0 0 0 0 0	V V	FAC UPL FACU	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
Eupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica 3. 4. 8. 9. 1. 2. Voody Vine Stratum (Plot size: 30 ft r) 1. 2. 4. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6	10 8 5 2 0 0 0 0 0 0 0 40% = 20% of 0	V V	FAC UPL FACU	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.
Herb Stratum (Plot size: 30 ft r) Leupatorium capillifolium Pinus taeda Andropogon virginicus Rubus allegheniensis Lonicera japonica 3. 4. 6. 7. 8. 9. 10. 11. 12. 12. 15. 16. 17. 18. 19. 19. 10. 10. 11. 12. 15. 16. 17. 18. 18. 18. 19. 19. 10. 10. 11. 12. 13. 14. 15.	10 8 5 2 0 0 0 0 0 0 40% = 20% of 0 0 0 0	V V	FAC UPL FACU	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.

SOIL Sampling Point: UP2090

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirm	n the absence of i	ndicators.)	
Depth	Matrix			x Feature		-			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-2	7.5YR 4/4	100					Clay loam		
2 - 20	7.5YR 4/6	100					Clay loam		
-									
-				-			·		
									_
				-					
	-				-		·		
	oncentration, D=De					ains.		=Pore Lining, M=Matr	
l <u> </u>	Indicators: (Appli	cable to all L			•			Problematic Hydric	Soils*:
Histosol			Polyvalue Be		. , .			(A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					(A10) (LRR S)	MI DA 450A D\
Black Hi	stic (A3) n Sulfide (A4)		Loamy Muck			(O)		/ertic (F18) (outside l Floodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		(FZ)			s Bright Loamy Soils (
_	Bodies (A6) (LRR I	P T U)	Redox Dark		- 6)		(MLRA 1		(1 20)
_	icky Mineral (A7) (L		Depleted Da	•				nt Material (TF2)	
	esence (A8) (LRR		Redox Depre					ow Dark Surface (TF1	12)
	ıck (A9) (LRR P, T)		Marl (F10) (L		,		Other (Exp	olain in Remarks)	,
☐ Depleted	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangan					rs of hydrophytic vege	
	rairie Redox (A16)					', U)		d hydrology must be p	
	fucky Mineral (S1)	(LRR O, S)	Delta Ochric			OA 450D)		disturbed or problema	itic.
	Sleyed Matrix (S4) Redox (S5)		Reduced Ve						
	Matrix (S6)						+9A) RA 149A, 153C, 15	3D)	
	rface (S7) (LRR P,	S. T. U)	Anomalous L	origint Loa	illy Solis (1 20) (WILI	CA 149A, 1330, 13	3D)	
	_ayer (if observed								
Type:			<u></u>						
Depth (in	ches):		<u> </u>				Hydric Soil Pre	sent? Yes	No 🗸
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Lowman	City/County: Gilbertown/Cho	ctaw	Sampling Date: 2020-01-22
Applicant/Owner: NextEra	<u> </u>	State: Alabama	Sampling Point: UP2091
Investigator(s): Tyler Russell, Kyle Price	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex,		Slope (%): 2
Subregion (LRR or MLRA): P Lat:		(b)(7)f	Datum: WGS 84
Soil Map Unit Name: ByB	201131		tion:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes ✓ No (
Are Vegetation, Soil, or Hydrology significant			
Are Vegetation, Soil, or Hydrology naturally p		explain any answe	
SUMMARY OF FINDINGS – Attach site map showing			
		Tio, transcott	, important routaroo, otor
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area		
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No W	within a Wetland?	Yes	No <u> </u>
Remarks:	<u>- </u>		
Upland Sample point associated with wetland W2091			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply		Surface Soil	
Surface Water (A1) Aquatic Fauna (E	13)		getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B	15) (LRR U)	Drainage Pat	
Saturation (A3) Hydrogen Sulfide		Moss Trim Li	
	heres along Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2) Presence of Red Presence of Red	` '	Crayfish Burr	
☐ Drift Deposits (B3) ☐ Recent Iron Redu ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface	uction in Tilled Soils (C6)		sible on Aerial Imagery (C9) Position (D2)
Iron Deposits (B5) Other (Explain in	, ,	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)	,	FAC-Neutral	
☐ Water-Stained Leaves (B9)			noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inche			
Water Table Present? Yes No Depth (inche			,
Saturation Present? Yes No Depth (inche (includes capillary fringe)	s): Wetland H	lydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if ava	ilable:	
Remarks: Hydrology not present			
I solve the solv			

Tree Stratum (Plot size: 30 ft r)		ants.		Sampling Point: UP2091
		Dominant		Dominance Test worksheet:
Process a section (Plot size: 60 KT		Species?		Number of Dominant Species
Prunus serotina			FACU	That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 5 (B)
k	0			
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B
5.	0			That Ale OBE, I AGW, OIT AG.
	0			Prevalence Index worksheet:
7.	0			Total % Cover of: Multiply by:
3	- 			OBL species $0 x 1 = 0$
E		Total Cov		FACW species $\frac{5}{}$ x 2 = $\frac{10}{}$
50% of total cover: <u>5</u>	20% of	total cover	:	FAC species 35 x 3 = 105
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 60 x 4 = 240
Quercus falcata	15		FACU	
Pinus taeda	5		FAC	UPL species $\frac{0}{400}$ x 5 = $\frac{0}{255}$
3	0			Column Totals: <u>100</u> (A) <u>355</u> (B)
i.	0			Prevalence Index = B/A = 3.6
5.	0			
	0			Hydrophytic Vegetation Indicators:
S	0			1 - Rapid Test for Hydrophytic Vegetation
7	- <u> </u>			2 - Dominance Test is >50%
3	0			3 - Prevalence Index is ≤3.0 ¹
	20% =	Total Cov	er er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover	<u> 4</u>	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
	25	✓	FACU	be present, unless disturbed or problematic.
Andropogon virginicus	15		FAC	Definitions of Four Vegetation Strata:
3. Quercus falcata	10		FACU	Definitions of Four Vegetation Offata.
Rubus pensilvanicus	10		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
D'	5			more in diameter at breast height (DBH), regardless of
			FAC	height.
S. Smilax laurifolia	5		FACW	Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3.	0			Herb – All herbaceous (non-woody) plants, regardless
	0			Herb - All herbaceous (hon-woody) plants, regardless
).	U			of size, and woody plants less than 3.28 ft tall.
	0			
10.				Woody vine – All woody vines greater than 3.28 ft in
10 11	0 0			
10 11	0 0 0			Woody vine – All woody vines greater than 3.28 ft in
10	0 0 0 0 70%	Total Cov		Woody vine – All woody vines greater than 3.28 ft in
10	0 0 0 0 70%	Total Cover		Woody vine – All woody vines greater than 3.28 ft in
10	0 0 0 0 70%			Woody vine – All woody vines greater than 3.28 ft in
10	0 0 0 0 70%			Woody vine – All woody vines greater than 3.28 ft in
10	0 0 0 0 70% =			Woody vine – All woody vines greater than 3.28 ft in
10	0 0 0 70% = 20% of			Woody vine – All woody vines greater than 3.28 ft in
Noody Vine Stratum (Plot size: 30 ft r) 1	0 0 0 70% = 20% of			Woody vine – All woody vines greater than 3.28 ft in
10	0 0 0 70% = 20% of			Woody vine – All woody vines greater than 3.28 ft in height.
10	0 0 0 70% = 20% of 0 0 0	total cover		Woody vine – All woody vines greater than 3.28 ft in height. Hydrophytic
10	0 0 0 70% = 20% of 0 0 0		. 14	Woody vine – All woody vines greater than 3.28 ft in height.

SOIL Sampling Point: UP2091

		to the depth		ent the indicator or co	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%		<u>r Features</u> <u>% Type¹ Loc</u>	Texture	Remarks
0 - 2	7.5YR 4/4	100			Clay loam	
2 - 20	7.5YR 4/6	100	_		Clay loam	
	-					
1- 0.0					2,	
			Reduced Matrix, MS RRs, unless other	=Masked Sand Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol		cable to all L		ow Surface (S8) (LRR	_	luck (A9) (LRR O)
l 	oipedon (A2)			face (S9) (LRR S, T, U		luck (A10) (LRR S)
Black Hi	stic (A3)			Mineral (F1) (LRR O)		ed Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleyer			ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) (LRR l	P T III	Depleted Mate			llous Bright Loamy Soils (F20)
	icky Mineral (A7) (L		=	k Surface (F7)	1 1 .	arent Material (TF2)
	esence (A8) (LRR		Redox Depres	ssions (F8)	Very S	hallow Dark Surface (TF12)
_	ick (A9) (LRR P, T)		Marl (F10) (LI	-	U Other (Explain in Remarks)
	d Below Dark Surfa ark Surface (A12)	ce (A11)		ric (F11) (MLRA 151) ese Masses (F12) (LRR	OPT) 3Indic	ators of hydrophytic vegetation and
I =	rairie Redox (A16)	(MLRA 150A)		ce (F13) (LRR P, T, U)		land hydrology must be present,
	lucky Mineral (S1)			F17) (MLRA 151)		ess disturbed or problematic.
_	Sleyed Matrix (S4)			ic (F18) (MLRA 150A,		
_	Redox (S5) Matrix (S6)			odplain Soils (F19) (ML right Loamy Soils (F20)		153D)
ı =	rface (S7) (LRR P ,	S. T. U)	Anomaious Bi	ngni Loanly Solis (F20)	(MLKA 149A, 193C,	, 1930)
	Layer (if observed					
Type:			<u></u>			
Depth (in	ches):				Hydric Soil	Present? Yes No
Remarks:	ot procent					
Hydric soil no	or present					

Project/Site: 1461 Lowman		City/Co	ounty: Gilbertown/Che	octaw	Sampling Date: 2020-01-23	
Applicant/Owner: NextEra						
Investigator(s): Tyler Russell, Kyle P	rice	Sectio	n, Township, Range:	<u></u>	. 0	
Landform (hillslope, terrace, etc.): Upla			relief (concave, convex,		Slope (%): 2	
_ `	Lat:			(b)(7)f	Datum: WGS 84	
Soil Map Unit Name: BnE2		(*/(/	Long.		ition:	
Are climatic / hydrologic conditions on t	he site typical for this ti	me of year? Ye	es No			
Are Vegetation, Soil, or		-			present? YesNo	
Are Vegetation, Soil, or				explain any answe		
SUMMARY OF FINDINGS - A						
				<u> </u>		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No _ Yes No _	<u></u>	Is the Sampled Area			
Wetland Hydrology Present?	Yes No	<u> </u>	within a Wetland?	Yes	No	
Remarks:	10010	<u>. </u>				
Upland Sample point associated with v	wetland W2091					
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is	required: check all the	at apply)		Surface Soil		
Surface Water (A1)	Aquatic Fa				getated Concave Surface (B8)	
High Water Table (A2)		sits (B15) (LRR	e un	Drainage Pat		
Saturation (A3)		Sulfide Odor (C		Moss Trim Li		
Water Marks (B1)		,	ong Living Roots (C3)		Water Table (C2)	
Sediment Deposits (B2)		of Reduced Iror		Crayfish Buri		
Drift Deposits (B3)	Recent Iro	n Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck	Surface (C7)		Geomorphic	Position (D2)	
Iron Deposits (B5)	U Other (Exp	olain in Remark	s)	Shallow Aqui	tard (D3)	
Inundation Visible on Aerial Imag	ery (B7)			FAC-Neutral	Test (D5)	
☐ Water-Stained Leaves (B9)				Sphagnum m	noss (D8) (LRR T, U)	
Field Observations:	,					
	No 🔽 Depth					
<u> </u>	No 🔽 Depth		<u> </u>			
Saturation Present? Yes _ (includes capillary fringe)	No 🖍 Depth	ı (inches):	Wetland I	Hydrology Presen	t? Yes No	
Describe Recorded Data (stream gauge	ge, monitoring well, aei	rial photos, prev	vious inspections), if ava	ailable:		
Remarks:						
Hydrology not present						

/EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2092
00 (1		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Fagus grandifolia	20		FACU	That Are OBL, FACW, or FAC: 4 (A)
2. Quercus alba	15		FACU	Total Number of Dominant
3. Pinus taeda	10		FAC	Species Across All Strata: 8 (B)
4. Liquidambar styraciflua	5		FAC	Dereant of Deminant Chapies
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	50% :	= Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: <u>25</u>	20% of			FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /0 0.	10101 00101	·	FAC species $\underline{50}$ $\times 3 = \underline{150}$
1 Liquidambar styraciflua	10	/	FAC	FACU species 60 x 4 = 240
2. Quercus alba	10		FACU	UPL species $0 \times 5 = 0$
Pinus taeda	5		FAC	Column Totals: 110 (A) 390 (B)
··	0		1710	
4	0			Prevalence Index = $B/A = 3.5$
5	. 			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	25% :	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 13	20% of	total cover:	5	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	15		FAC	be present, unless disturbed or problematic.
2. Quercus falcata	10		FACU	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	5		FACU	
Pinus taeda	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Carling (Charle Washington)
	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	- <u> </u>			height.
12	0			
		Total Cov		
50% of total cover: 18	20% of	total cover:	7	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4.	0			
5.	0			Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:				Present? Yes No
Remarks: (If observed, list morphological adaptations below		total cover.		
Tomano. (ii oboci rou, iist morphological adaptations bei				

SOIL Sampling Point: UP2092

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirn	n the absence of in	ndicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 2	7.5YR 4/4	100					Clay loam		
2 - 20	7.5YR 5/6	100					Clay loam		
-									
-				-					
				-					
				-					
	-								
	oncentration, D=De					ains.		Pore Lining, M=Matri	
l <u> </u>	Indicators: (Appli	cable to all L			•			Problematic Hydric	Soils [°] :
Histosol			Polyvalue Be		. , .			(A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					(A10) (LRR S)	AL DA 450A D\
	stic (A3) en Sulfide (A4)		Loamy Muck			(0)	7 7 7	/ertic (F18) (outside l Floodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		(1 2)			Bright Loamy Soils (
_	Bodies (A6) (LRR	P. T. U)	Redox Dark		F6)		(MLRA 1		1 20)
_	icky Mineral (A7) (L		Depleted Da		,		,	t Material (TF2)	
Muck Pr	esence (A8) (LRR	U)	Redox Depre				Very Shallo	ow Dark Surface (TF1	2)
1 cm Μι	ıck (A9) (LRR P, T)		Marl (F10) (L	•			U Other (Exp	lain in Remarks)	
=	d Below Dark Surfa	ce (A11)	Depleted Oc				2		
	ark Surface (A12)		Iron-Mangan					s of hydrophytic vege	
	rairie Redox (A16)		_			, U)		hydrology must be pr	
	Mucky Mineral (S1) Gleyed Matrix (S4)	(LKK U, S)	Delta Ochric Reduced Ver			.OA 150R)		disturbed or problema	uc.
	Redox (S5)		Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 153	3D)	
	rface (S7) (LRR P,	S, T, U)	_	J	,	- / (,,	,	
Restrictive	Layer (if observed):							
Type:									
Depth (in	ches):						Hydric Soil Pres	sent? Yes	No <u> </u>
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Lowman City/	County: Gilbertown/Choctaw	Sampling Date: 2020-01-23				
Applicant/Owner: NextEra	State: Alabama Samplin					
Investigator(s): Tyler Russell, Kyle Price Sect	ion, Township, Range:	. 0				
	al relief (concave, convex, none): Convex	Slope (%): 2				
Subregion (LRR or MLRA): P Lat: (b)(7)		Datum: WGS 84				
Soil Map Unit Name: BnE2		tion:				
Are climatic / hydrologic conditions on the site typical for this time of year?	_					
Are Vegetation, Soil, or Hydrology significantly distu		present? YesNo				
Are Vegetation, Soil, or Hydrology naturally problem						
SUMMARY OF FINDINGS – Attach site map showing sar		•				
Hydrophytic Vegetation Present? Yes No✓						
Hydric Soil Present? Yes No	Is the Sampled Area	4				
Hydric Soil Present? Yes No V Wetland Hydrology Present? Yes No V	within a Wetland? Yes	No				
Remarks:						
Upland Sample point associated with wetlands W2093, W2094, W2095 and W2096						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil					
Surface Water (A1) Aquatic Fauna (B13)		getated Concave Surface (B8)				
High Water Table (A2) Saturation (A3) Marl Deposits (B15) (LR						
Water Marks (B1) Oxidized Rhizospheres	· · · · 	Water Table (C2)				
Sediment Deposits (B2) Presence of Reduced In						
Drift Deposits (B3)	n Tilled Soils (C6) Saturation Vi	sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Position (D2)				
☐ Iron Deposits (B5) ☐ Other (Explain in Remai						
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	` '				
Water-Stained Leaves (B9) Field Observations:	Spriagnum n	noss (D8) (LRR T, U)				
Surface Water Present? Yes No Depth (inches):						
Water Table Present? Yes No _ Depth (inches):						
Saturation Present? Yes No V Depth (inches):		it? Yes No_ ✔				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr						
Describe Recorded Data (Stream gauge, monitoring well, aerial priotos, pr	evious irispections), ii available.					
Remarks: Hydrology not present						
Hydrology not present						

/EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2093/UP2094/UP2095
00 () -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Fagus grandifolia	20		FACU	That Are OBL, FACW, or FAC: $\frac{4}{}$ (A)
2. Quercus alba	15	✓	FACU	Total Number of Dominant
3. Pinus taeda	10	<u> </u>	FAC	Species Across All Strata: 8 (B)
4. Liquidambar styraciflua	5		FAC	
5.	0			Percent of Dominant Species That Are OBL FACW or FAC: 50 (A/B)
6.	0			That Are OBL, FACW, or FAC: 50 (A/B)
	0		•	Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8				OBL species $0 x 1 = 0$
0.5		= Total Cov		FACW species $0 x 2 = 0$
50% of total cover: 25	20% of	total cover:	10	FAC species 50 x 3 = 150
Sapling/Shrub Stratum (Plot size: 30 ft r)				00
1. Liquidambar styraciflua	10		FAC	
2. Quercus alba	10		FACU	OFL species x 5 =
3. Pinus taeda	5		FAC	Column Totals: <u>110</u> (A) <u>390</u> (B)
4.	0			Prevalence Index = $B/A = 3.5$
5.	0			<u>-</u>
	0			Hydrophytic Vegetation Indicators:
6	0		•	1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				☐ 3 - Prevalence Index is ≤3.0 ¹
40		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:	5	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	15		FAC	be present, unless disturbed or problematic.
2. Quercus falcata	10	~	FACU	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	5		FACU	
Pinus taeda	5		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5	0		•	height.
	0			
6	0		•	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0	-	-	than 3 in. DBH and greater than 3.20 it (1 in) tail.
8	<u> </u>			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	35% =	= Total Cov	er	
50% of total cover: 18	20% of	total cover:	7	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
	0			
2	0		•	
3	0	-	-	
4	0			
5				Hydrophytic
	=	Total Cov	er	Vegetation Present? Yes No ✓
50% of total cover:	20% of	total cover:	:	Present? Yes No
Remarks: (If observed, list morphological adaptations belo	ow).			

SOIL Sampling Point: UP2093/UP2094/UP2095i

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirn	n the absence of indic	ators.)	
Depth	Matrix		Redo	x Feature	S				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 2	7.5YR 4/4	100					Clay loam		
2 - 20	7.5YR 5/6	100					Clay loam		_
					-				_
					-				
-									
				· 					
l — —									
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, M	S=Masked	I Sand Gr	ains.	² Location: PL=Po		
Hydric Soil	Indicators: (Appli	cable to all LF	RRs, unless othe	rwise not	ed.)		Indicators for Pro	blematic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	RR S, T, U	U) 1 cm Muck (A9) (LRR O)	
Histic E	pipedon (A2)		Thin Dark S				2 cm Muck (A	0) (LRR S)	
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduced Verti	c (F18) (outside	MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix (F2)		Piedmont Floo	dplain Soils (F19)	(LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma	ıtrix (F3)				ght Loamy Soils	(F20)
Organic	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	6)		(MLRA 153E		
	ucky Mineral (A7) (L		Depleted Da	rk Surface	(F7)		Red Parent Ma		
Muck Pr	resence (A8) (LRR	U)	Redox Depr	`	8)			Dark Surface (TF	12)
1 cm Mu	ıck (A9) (LRR P, T)		Marl (F10) (I	_RR U)			U Other (Explain	in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc						
l =	ark Surface (A12)		Iron-Mangar				•	hydrophytic vege	
	rairie Redox (A16)		Umbric Surfa			', U)	-	drology must be p	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					irbed or problema	atic.
_	Bleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Fl						
	Matrix (S6)	o =	Anomalous I	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C, 153D)		
	rface (S7) (LRR P,						T		
	Layer (if observed):							
Type:			_						
Depth (in	ches):		<u> </u>				Hydric Soil Presen	t? Yes	No
Remarks:							1		
Hydric soil no	ot present								
1									
1									

Project/Site: 1461 Lowman		City/C	ounty: Gilbertown/Ch	octaw	Sampling Date: 2020-01-23
Applicant/Owner: NextEra			,	State: Alabama	Sampling Point: UP2097/UP2098
Investigator(s): Tyler Russell, Kyle F	rice	Section	on, Township, Range: _	<u> </u>	
Landform (hillslope, terrace, etc.): Upla			· · · · · · · · · · · · · · · · · · ·		Slope (%): 2
Subregion (LRR or MLRA): P			Long:		Datum: WGS 84
Soil Map Unit Name: OkA	Lat.		Long.		tion:
Are climatic / hydrologic conditions on	the site typical for this ti	me of year? V	es No		
Are Vegetation, Soil, or					
Are Vegetation, Soil, or SUMMARY OF FINDINGS – A				explain any answe	
JOHNMART OF THE HOUSE A	<u> </u>		ipinig ponit locati	ons, transects	, important reatures, etc.
Hydrophytic Vegetation Present?	Yes No _	<u> </u>	Is the Sampled Area		
Hydric Soil Present?	Yes No _		within a Wetland?	Yes	No
Wetland Hydrology Present? Remarks:	Yes No _				
Upland Sample point associated with	wetlands W2097 and W	V2098			
HYDROLOGY				0	
Wetland Hydrology Indicators:				_	tors (minimum of two required)
Primary Indicators (minimum of one is				Surface Soil	
Surface Water (A1) High Water Table (A2)	Aquatic Fa	auna (B13) sits (B15) (LRF) II/	Drainage Pat	getated Concave Surface (B8)
Saturation (A3)		Sulfide Odor (C		Moss Trim Li	
Water Marks (B1)		,	long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)		of Reduced Iron		Crayfish Buri	
Drift Deposits (B3)	Recent Iro	n Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck	Surface (C7)		Geomorphic	Position (D2)
Iron Deposits (B5)		olain in Remark	s)	Shallow Aqui	
Inundation Visible on Aerial Imag	jery (B7)			FAC-Neutral	()
☐ Water-Stained Leaves (B9)				Sphagnum m	noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes	No. V Donth	(inches):			
	No V Depth				
<u> </u>	No <u>✓</u> Depth		<u> </u>	Hydrology Presen	t? Yes No ✔
(includes capillary fringe)					16510
Describe Recorded Data (stream gau	ige, monitoring well, aer	rial photos, pre	vious inspections), if av	ailable:	
Remarks: Hydrology not present					

		ants.		Sampling Point: UP2097/UP209
20 ft r		Dominant		Dominance Test worksheet:
<u>Free Stratum</u> (Plot size: 30 ft r)	% Cover 0	Species?	Status	Number of Dominant Species
l	0			That Are OBL, FACW, or FAC: 1 (A)
2.	· —			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
l	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 33 (A/B)
S	0			Prevalence Index worksheet:
7	0			
3	0			Total % Cover of: Multiply by:
		Total Cov	er	OBL species $\frac{0}{0}$ $x = \frac{0}{0}$
50% of total cover:	20% of	total cover:		FACW species $\frac{0}{37}$ x 2 = $\frac{0}{111}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FAC species 37 x 3 = 111
Quercus falcata	10		FACU	FACU species $\frac{60}{0}$ $\times 4 = \frac{240}{0}$
Quercus nigra	2		FAC	UPL species $0 \times 5 = 0$
3	0			Column Totals: <u>97</u> (A) <u>351</u> (B)
ı.	0			Prevalence Index = B/A = 3.6
5.	0			Hydrophytic Vegetation Indicators:
5.	0			
7	0			1 - Rapid Test for Hydrophytic Vegetation
	0			☐ 2 - Dominance Test is >50%
3	400/	Total Cov	or	☐ 3 - Prevalence Index is ≤3.0 ¹
50% of total acress 6				Problematic Hydrophytic Vegetation ¹ (Explain)
· · · · · · · · · · · · · · · · · · ·	20% of	total cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft r</u>) 1. Eupatorium capillifolium	35		FACU	¹ Indicators of hydric soil and wetland hydrology must
Eupatonum capilliolium	33		FACU	be present, unless disturbed or problematic.
	20			
Andropogon virginicus	30		FAC	Definitions of Four Vegetation Strata:
Andropogon virginicus Quercus falcata	10		FACU	
Andropogon virginicus Quercus falcata Pinus taeda	10 5	<u>'</u>	FACU FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
Andropogon virginicus Quercus falcata Pinus taeda	10 5 5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense	10 5 5 0		FACU FAC	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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense	10 5 5		FACU FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense	10 5 5 0		FACU FAC	 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.
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. 5. 6. 7. 6. 7.	10 5 5 0 0		FACU FAC	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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense	10 5 5 0 0		FACU FAC	 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.
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	10 5 5 0 0 0		FACU FAC	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	10 5 5 0 0 0 0		FACU FAC	 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.
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	10 5 5 0 0 0 0 0 0 0		FACU FACU	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1	10 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cov	FACU FACU FACU	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1	10 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0		FACU FACU FACU	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 7. 3. 9. 10. 11. 12. 50% of total cover: 43 Woody Vine Stratum (Plot size: 30 ft r)	10 5 5 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 2 0	= Total Cov	FACU FACU FACU	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 7. 3. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 ft r)	10 5 5 0 0 0 0 0 0 0 0 0 0 0 20% of	= Total Cov	FACU FACU FACU	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. Pinus taeda Trifolium pratense 5. 7. 8. 9. 10. 11. 12. 50% of total cover: 43 Woody Vine Stratum (Plot size: 30 ft r)	10 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cov	FACU FACU FACU	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 7. 3. 9. 10. 11. 12. Moody Vine Stratum (Plot size: 30 ft r) 1. 2. 3. 3. 4. 50% of total cover: 43	10 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cov	FACU FACU FACU	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. 10. 11. 12. 12. 13. 14. 15. 16. 17. 17. 18. 19. 19. 19. 10. 10. 10. 11. 12. 13. 14. 15. 16. 17. 17. 18. 18. 18. 18. 18. 18	10 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cov	FACU FACU FACU	 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
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 7. 3. 9. 10. 11. 12. Woody Vine Stratum (Plot size: 30 ft r) 1. 2. 3. 4.	10 5 5 0 0 0 0 0 0 0 0 85% = 20% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cov	FACU FACU FACU FACU FACU FACU FACU FACU	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.
Andropogon virginicus Quercus falcata Pinus taeda Trifolium pratense 3. 4. Discrete description of the property of the prop	10 5 5 0 0 0 0 0 0 0 0 85% = 20% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Covers	FACU FAC FACU er 17	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.

SOIL Sampling Point: UP2097/UP2098

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirn	n the absence of indic	ators.)	
Depth	Matrix		Redo	x Feature	S				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 2	7.5YR 4/4	100					Clay loam		
2 - 20	7.5YR 5/6	100					Clay loam		_
					-				_
					-				
-									
				· 					
l — —									
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, M	S=Masked	I Sand Gr	ains.	² Location: PL=Po		
Hydric Soil	Indicators: (Appli	cable to all LF	RRs, unless othe	rwise not	ed.)		Indicators for Pro	blematic Hydric	Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (L	RR S, T, U	U) 1 cm Muck (A9) (LRR O)	
Histic E	pipedon (A2)		Thin Dark S				2 cm Muck (A	0) (LRR S)	
Black H	istic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduced Verti	c (F18) (outside	MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix (F2)		Piedmont Floo	dplain Soils (F19)	(LRR P, S, T)
Stratifie	d Layers (A5)		Depleted Ma	ıtrix (F3)				ght Loamy Soils	(F20)
Organic	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	6)		(MLRA 153E		
	ucky Mineral (A7) (L		Depleted Da	rk Surface	(F7)		Red Parent Ma		
Muck Pr	resence (A8) (LRR	U)	Redox Depr	`	8)			Dark Surface (TF	12)
1 cm Mu	ıck (A9) (LRR P, T)		Marl (F10) (I	_RR U)			U Other (Explain	in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc						
l =	ark Surface (A12)		Iron-Mangar				•	hydrophytic vege	
	rairie Redox (A16)		Umbric Surfa			', U)	-	drology must be p	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					irbed or problema	atic.
_	Bleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Fl						
	Matrix (S6)	o =	Anomalous I	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C, 153D)		
	rface (S7) (LRR P,						T		
	Layer (if observed):							
Type:			_						
Depth (in	ches):		<u> </u>				Hydric Soil Presen	t? Yes	No
Remarks:							1		
Hydric soil no	ot present								
1									
1									

Project/Site: 1461 Lowman	City/C	County: Silas/Choctaw	Sampling Date: 2020-01-25
Applicant/Owner: NextEra		State: Alabama	Sampling Point: UP2099/UP2100
Investigator(s): Tyler Russell, Kyle P	Price Section	on, Township, Range:	
Landform (hillslope, terrace, etc.): Upla		relief (concave, convex, none): Convex	Slope (%): 3
· · · · _ · ·	Lat: (b)(7)f		Datum: WGS 84
Soil Map Unit Name: BrE2	Lat.		ation:
Are climatic / hydrologic conditions on the	the site typical for this time of year? Y	es No (If no, explain in R	Remarks.)
		rbed? Are "Normal Circumstances"	
Are Vegetation, Soil, or			
		npling point locations, transects	
	· · · · · · · · · · · · · · · · · · ·		, ,
Hydrophytic Vegetation Present?	Yes No Yes No	Is the Sampled Area	
Hydric Soil Present? Wetland Hydrology Present?	Yes No	within a Wetland? Yes	No <u> </u>
Remarks:	163 140		
Upland sample point associated with w	vetland W2099 and W2100		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is	required; check all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRI		
Saturation (A3)	Hydrogen Sulfide Odor (C		, ,
Water Marks (B1)	Oxidized Rhizospheres a		Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Presence of Reduced Iro Recent Iron Reduction in	- '	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Position (D2)
Iron Deposits (B5)	Other (Explain in Remark	_ ·	` ,
Inundation Visible on Aerial Image		FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum r	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes	No V Depth (inches):		
Water Table Present? Yes	No V Depth (inches):		
	No V Depth (inches):	Wetland Hydrology Preser	nt? Yes No <u> </u>
(includes capillary fringe) Describe Recorded Data (stream gauge	ge, monitoring well, aerial photos, pre	evious inspections), if available:	
, ,			
Remarks:			
Hydrology not present			

20.4 -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r		Species?	<u>Status</u>	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 2 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			Dercent of Deminent Charles
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
		Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 30 x 3 = 90
1. Pinus taeda	5	~	FAC	FACU species 30 x 4 = 120
2. Quercus falcata	5		FACU	UPL species 10 x 5 = 50
	0			Column Totals: <u>70</u> (A) <u>260</u> (B)
3	0			
4	0			Prevalence Index = $B/A = 3.7$
5	0			Hydrophytic Vegetation Indicators:
6	- 0			1 - Rapid Test for Hydrophytic Vegetation
7	- 			2 - Dominance Test is >50%
8	0			☐ 3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% of	total cover	2	
Herb Stratum (Plot size: 30 ft r)	25		FACIL	¹ Indicators of hydric soil and wetland hydrology must
1. Eupatorium capillifolium			FACU	be present, unless disturbed or problematic.
2. Andropogon virginicus	15		FAC	Definitions of Four Vegetation Strata:
3. Imperata cylindrica	10		UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Rubus pensilvanicus	10		FAC	more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9.	0			of size, and woody plants less than 3.28 ft tall.
10	0			W
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0			noight.
12.	60% =	Total Cov	er	
50% of total cover: 30		total cover		
Woody Vine Stratum (Plot size: 30 ft r)	20 /0 01	total cover	• =====	
	0			
1	0			
2.	0			
3	0			
4	0			
5				Hydrophytic
	=	Total Cov	er	Vegetation Present? Yes No
50% of total cover:	20% of	total cover	:	riesent: res No
Remarks: (If observed, list morphological adaptations below	ow).			
30 percent bare ground due to road disturbance				

Sampling Point: UP2099/UP2100

SOIL Sampling Point: UP2099/UP2100

Profile Description: (Describe to the dept	n needed to docume	nt the indicator	or confirn	n the absence of indi	icators.)
Depth	Matrix	Redox F	eatures			
	(moist) %	Color (moist) %	Type ¹	Loc ²	Texture	Remarks
0 - 20 7.5YR	5/8 100				Sandy loam	
	<u> </u>					<u> </u>
						
-						
	<u> </u>					<u> </u>
						
¹ Type: C=Concentration	on D=Depletion RM=	Reduced Matrix MS=I	Masked Sand Gr	ains	² Location: PL =Pc	ore Lining, M=Matrix.
Hydric Soil Indicators						oblematic Hydric Soils ³ :
Histosol (A1)	`		v Surface (S8) (L	RRSTI	_	•
Histic Epipedon (A	2)		ce (S9) (LRR S ,		2 cm Muck (A	
Black Histic (A3)	12)		/lineral (F1) (LRF			tic (F18) (outside MLRA 150A,B)
Hydrogen Sulfide	(A4)	Loamy Gleyed I		. 0,		odplain Soils (F19) (LRR P, S, T)
Stratified Layers (A		Depleted Matrix				right Loamy Soils (F20)
Organic Bodies (A		Redox Dark Sui			(MLRA 153	
1 = 1	al (A7) (LRR P, T, U)	Depleted Dark S	. ,		Red Parent M	•
Muck Presence (A		Redox Depress				Dark Surface (TF12)
1 cm Muck (A9) (L		Marl (F10) (LRF	` '			n in Remarks)
Depleted Below D		= ' '	c (F11) (MLRA 1	51)		,
Thick Dark Surface		_	e Masses (F12) (T) ³ Indicators o	f hydrophytic vegetation and
	ox (A16) (MLRA 150A	_	(F13) (LRR P, T			/drology must be present,
	eral (S1) (LRR O, S)		17) (MLRA 151)		-	turbed or problematic.
Sandy Gleyed Mat			(F18) (MLRA 15	0A, 150B)		·
Sandy Redox (S5)			plain Soils (F19)			
Stripped Matrix (S					RA 149A, 153C, 153D))
Dark Surface (S7)	(LRR P, S, T, U)	_		, ,		
Restrictive Layer (if o						
Type:						
Depth (inches):					Hydric Soil Prese	nt? Yes No ✔
Remarks:					11,4110 0011 110001	100 <u></u>
itemarks.						

Project/Site: 1461 Lowman		City/C	county: Needham/Cho	ctaw	Sampling Date: 2020-01-28
Applicant/Owner: NextEra			,	State: Alabama	Sampling Point: UP2101/UP2102
Investigator(s): Tyler Russell, Kyle F	rice	Section	on, Township, Range:	·	
Landform (hillslope, terrace, etc.): Upla			relief (concave, convex,		Slope (%): 1
Subregion (LRR or MLRA): P			Long:	(b)(7)f	Datum: WGS 84
Soil Map Unit Name: IzA			Long.	NWI classifica	
Are climatic / hydrologic conditions on t	the site typical for this	time of year? V	res No		
Are Vegetation, Soil, or		-			
Are Vegetation, Soil, or				explain any answe	
SUMMARY OF FINDINGS – A	ttach site map s	showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes No	· •			
Hydric Soil Present?	Yes No	<u></u>	Is the Sampled Area	Vaa	No 🗸
Wetland Hydrology Present?	Yes No		within a Wetland?	res	NO
Remarks:					
Upland sample point associated with v	wetlands W2101 and	W2102			
HYDROLOGY					
Wetland Hydrology Indicators:				Socondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is	required: check all th	hat annly)		Surface Soil	
Surface Water (A1)		Fauna (B13)			getated Concave Surface (B8)
High Water Table (A2)		oosits (B15) (LRF	S 11)	Drainage Pa	
Saturation (A3)		n Sulfide Odor (0		Moss Trim Li	
Water Marks (B1)		,	long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)		e of Reduced Iro		Crayfish Burn	
Drift Deposits (B3)			Tilled Soils (C6)	_	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muc	ck Surface (C7)		Geomorphic	Position (D2)
☐ Iron Deposits (B5)	Other (E	xplain in Remark	(S)	Shallow Aqu	tard (D3)
Inundation Visible on Aerial Imag	ery (B7)			FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)				Sphagnum n	noss (D8) (LRR T, U)
Field Observations:					
	No 🔽 Dep				
<u> </u>	No 🔽 Dep				.,
Saturation Present? Yes _ (includes capillary fringe)	No 🔽 Dep	oth (inches):	Wetland I	Hydrology Preser	t? Yes No
Describe Recorded Data (stream gau	ge, monitoring well, a	erial photos, pre	vious inspections), if ava	ailable:	
Remarks: Hydrology not present					
linguisting, not process.					

- 30 ft r		Dominant		Dominance Test worksheet:
<u>ree Stratum</u> (Plot size: <u>30 ft r</u>) Pinus taeda	% Cover 20	Species?	FAC	Number of Dominant Species
	0		170	That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
				Total Number of Dominant
i	0			Species Across All Strata: 4 (B)
•	0			Percent of Dominant Species
	0			That Are OBL, FACW, or FAC: 50 (A/B)
i	0			Prevalence Index worksheet:
·	0			
. <u> </u>	0			Total % Cover of: Multiply by:
	20% _	Total Cov	er	OBL species $\frac{0}{0}$ $x = \frac{0}{0}$
50% of total cover: 10	20% of	total cover	4	FACW species 0 $x 2 = 0$ FAC species 55 $x 3 = 165$
Sapling/Shrub Stratum (Plot size: 30 ft r)				17to species x o
	0			FACU species $\frac{40}{30}$ $\times 4 = \frac{160}{100}$
	0			UPL species $\frac{20}{445}$ x 5 = $\frac{100}{405}$
i	0			Column Totals: <u>115</u> (A) <u>425</u> (B)
	0			Prevalence Index = B/A = 3.7
5.	0			
	0			Hydrophytic Vegetation Indicators:
	0			1 - Rapid Test for Hydrophytic Vegetation
	0			☐ 2 - Dominance Test is >50%
J	· ——	Total Co		3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% 01	total cover		
				¹ Indicators of hydric soil and wetland hydrology must
Functorium capillifolium	25		EACH	
Eupatorium capillifolium	25		FACU	be present, unless disturbed or problematic.
Eupatorium capillifolium Imperata cylindrica	20	<u> </u>	UPL	
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus	20 15		UPL FAC	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica	20 15 15		UPL FAC FACU	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica	20 15 15 10		UPL FAC	be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0		UPL FAC FACU	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10		UPL FAC FACU	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.
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0		UPL FAC FACU	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.
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0		UPL FAC FACU	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.
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0 0		UPL FAC FACU	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.
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0 0 0		UPL FAC FACU	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0 0 0 0 0		UPL FAC FACU	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.
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0 0 0 0 0 0		UPL FAC FACU FAC	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0 0 0 0 0 0 0 0 0	Total Cov	UPL FAC FACU FAC	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0 0 0 0 0 0 0 0 0		UPL FAC FACU FAC	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus 0. 1. 2. 50% of total cover: 43 Voody Vine Stratum (Plot size: 30 ft r	20 15 15 10 0 0 0 0 0 0 0 0 0 0 20% of	Total Cover	FAC FACU FAC	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus 3. 3. 4. 5. 6. 7. 7. 8. 9. 9. 9. 9. 9. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 2. 2. 30 ft r Vitis cinerea Vitis cinerea	20 15 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cov	UPL FAC FACU FAC	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus 0. 1. 2. Voody Vine Stratum (Plot size: 30 ft r) Vitis cinerea	20 15 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cover	FAC FACU FAC	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus	20 15 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cover	FAC FACU FAC	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus 0. 1. 2. Voody Vine Stratum (Plot size: 30 ft r) Vitis cinerea	20 15 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Cover	FAC FACU FAC	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
Eupatorium capillifolium Imperata cylindrica Andropogon virginicus Lonicera japonica Rubus pensilvanicus 3. 3. 4. 5. 6. 7. 7. 8. 9. 9. 9. 1. 2. 9. 1. 2. 1. 2. 1. 2. 1. 2. 2. 2. 30 ft r Vitis cinerea 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	20 15 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cov total cover	FAC FAC FAC FAC FAC FAC FAC FAC	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.
7	20 15 15 10 0 0 0 0 0 0 0 85% 20% of 10 0 0 0 10 0 0 10 0 10 0 0 10 1	Total Cover	FAC	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.

SOIL Sampling Point: UP2101/UP2102

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirn	n the absence of indicators	i.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 3	10YR 2/1	100					Loamy sand	
3 - 20	10YR 4/6	100					Loam	_
					-	· 		
<u> </u>								
-								
								
	oncentration, D=De					ains.	² Location: PL=Pore Lini	
Hydric Soil	Indicators: (Appli	cable to all LF	RRs, unless othe	rwise not	ed.)		Indicators for Problema	atic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (l	LRR S, T, U	J) <u> </u>	R 0)
Histic Ep	oipedon (A2)		Thin Dark Su				2 cm Muck (A10) (LI	
l ==	stic (A3)		Loamy Muck	-		R O)		3) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gley		F2)			Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma				Anomalous Bright Lo	pamy Soils (F20)
 	Bodies (A6) (LRR I		Redox Dark				(MLRA 153B)	(TEO)
	icky Mineral (A7) (L		Depleted Da				Red Parent Material Very Shallow Dark S	
_	esence (A8) (LRR		Redox Depre	•	8)		Other (Explain in Re	` '
	ıck (A9) (LRR P, T) d Below Dark Surfa		Depleted Oc	•	(MI RA 1	51)	Utilei (Explain in Re	iliaiks)
	ark Surface (A12)	CC (A11)	Iron-Mangar				T) ³ Indicators of hydro	phytic vegetation and
l =	rairie Redox (A16) ((MLRA 150A)	Umbric Surfa					y must be present,
	lucky Mineral (S1)		Delta Ochric			, -,	unless disturbed	-
	Gleyed Matrix (S4)	-,-,	Reduced Ve			50A, 150B)		
	Redox (S5)		Piedmont Flo					
☐ Stripped	Matrix (S6)		Anomalous I	Bright Loai	my Soils (F20) (MLR	RA 149A, 153C, 153D)	
Dark Su	rface (S7) (LRR P,	S, T, U)						
Restrictive I	Layer (if observed):						
Type:								
Depth (in	ches):		<u></u>				Hydric Soil Present?	Yes No
Remarks:								

Project/Site: 1461 Edge Lowman City/0	County: Washington Sampling Date: 2020-03-05
Applicant/Owner: Edge Lowman	State: Alabama Sampling Point: UP2105
	on, Township, Range: Salitpa
· , , —	relief (concave, convex, none): Concave Slope (%): 2
Subregion (LRR or MLRA): P 135 Lat: (b)(7)	
Soil Map Unit Name: MbF2	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	npling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No✓ Remarks:	
Upland sample point UP2105	
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) Drift Deposits (B2) Drift Deposits (B3) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Moss Trim Lines (B16) Ilong Living Roots (C3) In (C4) Tilled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre Remarks: Hydrology not present	vious inspections), il avallable.

'EGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point: <u>UP2105</u>
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	20		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Quercus falcata	5		FACU	Total Number of Dominant
3	0			Species Across All Strata: 5 (B)
4.	0			
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)
	0			That Are OBL, FACW, or FAC: 60 (A/B)
6	0			Prevalence Index worksheet:
7	- 0		-	Total % Cover of: Multiply by:
3	050/			OBL species $0 x 1 = 0$
		Total Cov	_	FACW species 0 $x = 0$
50% of total cover: <u>13</u>	20% of	total cover	5	
Sapling/Shrub Stratum (Plot size: 30 ft r)				1 AC species x 3 =
1. Pinus taeda	40		FAC	FACU species $\frac{0}{2}$ $x = 4$
2. Quercus falcata	10		FACU	UPL species $0 \times 5 = 0$
llex opaca	5		FAC	Column Totals: 100 (A) 330 (B)
4.	0			5
	0			Prevalence Index = $B/A = 3.3$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	- 			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	55% :	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 28	20% of	total cover:	11	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
Bouteloua dactyloides	15	~	FACU	be present, unless disturbed or problematic.
Andropogon gerardii	5		FAC	Definitions of Four Vegetation Strata:
	0			Definitions of Four Vegetation Strata.
3.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	$-\frac{0}{0}$			more in diameter at breast height (DBH), regardless of
5				height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			Herb – All herbaceous (non-woody) plants, regardless
9.	0			of size, and woody plants less than 3.28 ft tall.
10	0			
	0			Woody vine – All woody vines greater than 3.28 ft in
11	0		•	height.
12				
10		= Total Cov		
50% of total cover: 10	20% of	total cover	: 4	
Woody Vine Stratum (Plot size:)				
1	0			
2.	0			
3.	0			
4	0			
т	0			
5			•	Hydrophytic
		= Total Cov		Vegetation Present? Yes <u>✓</u> No
50% of total cover:	20% of	total cover		
Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation is present	OW).			

SOIL Sampling Point: UP2105

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence of	indicators.)
Depth	Matrix			x Feature:			_	
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	10YR 4/3	100					Sand	
					-			
-								
	-							
					-			
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	Reduced Matrix, MS	S=Masked	I Sand Gr	ains.	² Location: PL	.=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applie	cable to all Li	RRs, unless other	wise note	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U	J) 📙 1 cm Muc	k (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					k (A10) (LRR S)
Black Hi			Loamy Mucky			R O)		Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19) (LRR P, S, T)
	l Layers (A5) Bodies (A6) (LRR F	D T III	Depleted Mat	. ,	.e)		Anomalou	s Bright Loamy Soils (F20)
	cky Mineral (A7) (L		Depleted Dar	•	,			nt Material (TF2)
_	esence (A8) (LRR I		Redox Depre					low Dark Surface (TF12)
_	ck (A9) (LRR P, T)	- ,	Marl (F10) (L	•	-,			plain in Remarks)
Depleted	l Below Dark Surfac	ce (A11)	Depleted Och		(MLRA 1	51)		
_	ark Surface (A12)		Iron-Mangan					rs of hydrophytic vegetation and
	rairie Redox (A16) (_			', U)		d hydrology must be present,
_	lucky Mineral (S1) (LRR O, S)	Delta Ochric			OA 450D)		disturbed or problematic.
_	leyed Matrix (S4) edox (S5)		Reduced Ver					
	Matrix (S6)						A 149A, 153C, 15	53D)
_	face (S7) (LRR P ,	S, T, U)		night Loai	ny conc (. 20) (III 2 10	, t 1 107 t, 1000, 10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	ayer (if observed)							
Type:								
Depth (inc	ches):						Hydric Soil Pre	esent? Yes No
Remarks:							•	
Hydric soil no	ot present							

Project/Site: 1461 Edge Lowman	City/County: Choctaw	Sampling Date: 2020-03-07
Applicant/Owner: Edge Lowman		Sampling Point: UP2106/ UP2107
	Section, Township, Range: Needham	- · · · · <u></u>
	_ocal relief (concave, convex, none): None	Slope (%): 0
	b)(7)f Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: SaB	NWI classifica	NI/A
Are climatic / hydrologic conditions on the site typical for this time of year	<u> </u>	·
Are Vegetation, Soil, or Hydrology significantly of		
Are Vegetation, Soil, or Hydrology naturally prob		
SUMMARY OF FINDINGS – Attach site map showing		
Hydrophytia Vagatation Brocont2		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area	.,
Wetland Hydrology Present? Yes No	within a Wetland? Yes	No
Remarks:		
Upland sample point UP2106/ UP2107 Area disturbed from previous railroad use.		
Area disturbed from previous failioad use.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13		getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)		atterns (B10)
Saturation (A3) Hydrogen Sulfide Oc		
		Water Table (C2)
Sediment Deposits (B2)		
	on in Tilled Soils (C6) Saturation V	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(C7) Geomorphic	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Re	emarks) Shallow Aqu	uitard (D3)
Inundation Visible on Aerial Imagery (B7)	☐ FAC-Neutra	l Test (D5)
Water-Stained Leaves (B9)	Sphagnum ı	moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth (inches):		
Water Table Present? Yes No Depth (inches):	•	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Prese	nt? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:	
Remarks: Hydrology not present		
Trydrology flot present		

	•	ants.		Sampling Point: UP2106/UP210
To a Otration (Dist along 30 ft r		Dominant		Dominance Test worksheet:
ree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
	0	-	-	That Are OBL, FACW, or FAC: (A)
2 3	0			Total Number of Dominant Species Agrees All Strate: 6
	0			Species Across All Strata: (B)
· i	0			Percent of Dominant Species That Are OBL FACW or FAC: 50 (A/B
·	0			That Are OBL, FACW, or FAC: (A/B
·	0			Prevalence Index worksheet:
3.	0			Total % Cover of: Multiply by:
*		Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 70 01	10101 00701		FAC species $0 \times 3 = 0$
Liquidambar styraciflua	10	~	FAC	FACU species $0 \times 4 = 0$
Quercus nigra	10		FAC	UPL species $0 \times 5 = 0$
3	0		-	Column Totals: 100 (A) 365 (B)
·	0			Prevalence Index = B/A = 3.7
· i.	0			-
	0			Hydrophytic Vegetation Indicators:
	0			1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
	0			2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
	20%	Total Cov	er	
50% of total cover: 10	20% of			Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30 ft r)				1 Indicators of budgie only and watered budgetons and
Allium cernuum	15	~	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Bouteloua dactyloides	15	~	FACU	Definitions of Four Vegetation Strata:
Lonicera japonica	15	~	FACU	
Lygodium japonicum	15		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
Asplenium platyneuron	10		FACU	height.
) -1 1			= 4 0 1 1	
	10		FACU	Sanling/Shrub Woody plants excluding vines loss
Trifolium pratense	10		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Trifolium pratense			FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Trifolium pratense 7. 3.	0		FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
Trifolium pratense	0 0		FACU	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.
Trifolium pratense	0 0		FACU	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
Trifolium pratense	0 0 0 0		FACU	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.
Trifolium pratense 7. 3. 9. 10.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Total Cov		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
Trifolium pratense 7. 8. 9. 1. 2. 2.	0 0 0 0 0 0 0 0 80%	= Total Cov	eer	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
Trifolium pratense 2. 3. 4. 5. 6. 7. 7. 8. 8. 9. 9. 9. 9. 9. 9. 9. 1. 2. 50% of total cover: 40	0 0 0 0 0 0 0 0 80%	= Total Cov	eer	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
Trifolium pratense 2. 3. 3. 4. 5. 6. 7. 7. 8. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	0 0 0 0 0 0 0 0 80%		eer	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
Trifolium pratense 2. 3. 3. 4. 5. 6. 7. 7. 8. 9. 9. 9. 1. 2. 1. 2. 1. 2. 1. 2. 2. 40 Yoody Vine Stratum (Plot size: 30 ft r) 1. 1. 2. 30 ft r)	0 0 0 0 0 0 0 0 80% =		eer	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
Trifolium pratense 7. 8. 9. 10. 11. 12. 150% of total cover: 40 Woody Vine Stratum (Plot size: 30 ft r)	0 0 0 0 0 0 0 80% =		eer	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
Trifolium pratense 7. 8. 9. 1. 2. Voody Vine Stratum (Plot size: 30 ft r) 9. 9. 9. 9. 9. 9. 9. 9. 9. 9	0 0 0 0 0 0 0 80% = 20% of		eer	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
Trifolium pratense 7. 8. 9. 10. 11. 22. Solution Solutio	0 0 0 0 0 0 80% = 20% of		eer	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.
7.	0 0 0 0 0 0 80% = 20% of	total cover	rer 16	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
Trifolium pratense 7. 3. 9. 11. 12.	0 0 0 0 0 0 80% = 20% of	total cover	er . 16	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.

SOIL Sampling Point: UP2106/UP2107

	cription: (Describe	e to the depth				or confirm	n the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature: %	s Type ¹	Loc ²	Texture	R	emarks	
0 - 5	10YR 3/2	100	COIOI (IIIOISI)	70	Турс	<u> </u>	Sandy loam	Could not dig deeper		due to railroad
	1011(0/2				-		Canay Ioani	fill		
-										
-	•									,
										
-										
1Typo: C=C	oncentration, D=De	nlotion DM-D	aduand Matrix MS	S=Mookod	l Cand Cr	oine	² L coation:	PL=Pore Lining,	NA-NAotrix	
	Indicators: (Appli					allis.		for Problematic		
		cable to all El			•	DD C T I			•	0110 .
Histosol	oipedon (A2)		Polyvalue Be		· , •		. —	/luck (A9) (LRR (/luck (A10) (LRR	•	
_	stic (A3)		Loamy Muck					ed Vertic (F18) (c		I PA 150A R\
_	en Sulfide (A4)		Loamy Gleye	-		(0)		ont Floodplain Sc		
	d Layers (A5)		Depleted Ma		12)			alous Bright Loan		
	Bodies (A6) (LRR	P T U)	Redox Dark	` ,	-6)			RA 153B)	iy Oolis (i	20)
	icky Mineral (A7) (L		Depleted Dai	•	,		_ `	arent Material (TF	- 2)	
	esence (A8) (LRR		Redox Depre					hallow Dark Surf	,)
	ick (A9) (LRR P, T)		Marl (F10) (L		-,			(Explain in Rema		,
_	d Below Dark Surfa		Depleted Ocl	-	(MLRA 1	51)	<u>—</u>		,	
Thick Da	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12) (LRR O, P	, T) ³ Indic	ators of hydrophy	ytic vegeta	ation and
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ice (F13) ((LRR P, 1	', U)	wet	land hydrology m	nust be pre	esent,
Sandy N	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		unle	ess disturbed or p	oroblemati	C.
Sandy C	Gleyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 1	0A, 150B))			
	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	49A)			
_	Matrix (S6)		Anomalous E	Bright Loar	my Soils (F20) (MLF	RA 149A, 153C	, 153D)		
	rface (S7) (LRR P,									
Restrictive	Layer (if observed):								
Type:			<u>—</u>							
Depth (in	ches):						Hydric Soil	Present? Yes	·	No <u> </u>
Remarks:										
Hydric soil no	ot present. Multiple	attempts were	made to dig past	5 inches.	All resulte	d in refusa	al due to fill fron	n the railroad.		

Project/Site: 1461 Edge Lowman	City/County: Choctaw	_ Sampling Date: 2020-03-07
Applicant/Owner: Edge Lowman		Sampling Point: UP2108/ UP2109/UP2110
Investigator(s): Kyle Price Tyler Russell	Section, Township, Range: Needham	
	Local relief (concave, convex, none): none	e Slope (%): 0
	(b)(7)f Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: Iza	NWI classific	
Are climatic / hydrologic conditions on the site typical for this time of ye	<u> </u>	
Are Vegetation, Soil, or Hydrology significantly		
Are Vegetation, Soil, or Hydrology naturally pro		
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	
Hydric Soil Present? Yes No	within a Wetland? Yes	No
Wetland Hydrology Present? Yes No		
Remarks: Upland sample points UP2108/UP2109/UP2010		
Area disturbed due to previous use by railroad		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		il Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13		egetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)		atterns (B10)
Saturation (A3) Hydrogen Sulfide C	Odor (C1) Moss Trim	Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizosphe	eres along Living Roots (C3) 🔲 Dry-Seasor	n Water Table (C2)
Sediment Deposits (B2)	ed Iron (C4)	rrows (C8)
	_	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) H Thin Muck Surface		c Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in R		
Inundation Visible on Aerial Imagery (B7)	FAC-Neutra	,
☐ Water-Stained Leaves (B9) Field Observations:	Spnagnum	moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches)		
Water Table Present? Yes No Depth (inches)		
Saturation Present? Yes No Depth (inches)	·	ent? Yes No ✔
(includes capillary fringe)		III.: 165 NO
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:	
Remarks:		
Hydrology not present		

20.4 -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Liriodendron tulipifera	5		FACU	That Are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 7 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 43 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	5% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 3	20% of	total cover	1	FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$
1. Carpinus caroliniana	10	~	FAC	FACU species $0 \times 4 = 0$
2. Cornus florida	10		FACU	UPL species $0 \times 5 = 0$
3. Liquidambar styraciflua	10	<u> </u>	FAC	Column Totals: 110 (A) 395 (B)
4 Quercus nigra	10		FAC	
5. Ilex opaca	5		FAC	Prevalence Index = $B/A = 3.6$
· -	· 		170	Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	45% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 23	20% of	total cover	9	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Homalium racemosum	20		FACU	be present, unless disturbed or problematic.
2. Hieracium greenii	15	~	FACU	Definitions of Four Vegetation Strata:
3. Andropogon virginicus	10		FAC	- W
4. Bouteloua dactyloides	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	5		FACU	height.
•	0			One Broad Observe Was about a support of the professional land
	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			alan o in BBH and groater than 6.20 it (1 in) tail.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	0			
		Total Cov		
50% of total cover: 30	20% of	total cover	12	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	·	Total Cov	er	Hydrophytic Vegetation
50% of total cover:				Present? Yes No
Remarks: (If observed, list morphological adaptations belo		total cover	· — —	
Hydrophytic vegetation not present	JW).			
Trydrophytic vegetation not present				

Sampling Point: UP2108/UP2109/UP2110

SOIL Sampling Point: UP2108/UP2109/UP2110

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	n the absence of in	ndicators.)	
Depth	Matrix			ox Feature					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc 2	<u>Texture</u>	Remarks	
0 - 20	10YR 3/3	100					Loamy sand		
					-				
-									
	-								
_									
1- 0.0						 	21 11 12	D 1:: M M 1	
	oncentration, D=De					ains.		Pore Lining, M=Mat	
l <u> </u>	Indicators: (Appli	cable to all Li			•			Problematic Hydric	Solis":
Histosol			Polyvalue B				. –	(A9) (LRR O)	
_	oipedon (A2)		Thin Dark S					(A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muc	-		R O)		ertic (F18) (outside	
	n Sulfide (A4)		Loamy Gley	ed Matrix	(F2)			Floodplain Soils (F19	
	d Layers (A5)		Depleted Ma	atrix (F3)			Anomalous	Bright Loamy Soils	(F20)
_	Bodies (A6) (LRR I		Redox Dark				(MLRA 1		
	ıcky Mineral (A7) (L		Depleted Da	ark Surface	e (F7)			Material (TF2)	
	esence (A8) (LRR		Redox Depr	essions (F	8)			w Dark Surface (TF	12)
1 cm Μι	ıck (A9) (LRR P, T)		Marl (F10) (LRR U)			U Other (Expl	lain in Remarks)	
Depleted	d Below Dark Surfa	ce (A11)	Depleted Oc	chric (F11)	(MLRA 1	51)			
	ark Surface (A12)		Iron-Mangai	nese Mass	ses (F12) ((LRR O, P	, T) ³ Indicators	s of hydrophytic veg	etation and
Coast P	rairie Redox (A16) (MLRA 150A)				「, U)	wetland	hydrology must be p	oresent,
Sandy N	lucky Mineral (S1)	(LRR O, S)	Delta Ochrid					listurbed or problem	atic.
Sandy C	Sleyed Matrix (S4)		Reduced Ve	ertic (F18)	(MLRA 15	50A, 150B))		
Sandy F	Redox (S5)		Piedmont FI	oodplain S	Soils (F19)	(MLRA 14	49A)		
☐ Stripped	Matrix (S6)		Anomalous	Bright Loa	my Soils (F20) (MLF	RA 149A, 153C, 153	BD)	
Dark Su	rface (S7) (LRR P,	S, T, U)							
Restrictive	Layer (if observed):							
Type:									
, , <u> </u>	ches):						Hydric Soil Pres	sent? Yes	No 🗸
	ones)						Tryuno dom i res	Jent. 105	
Remarks: Hydric soil no	nt nresent								
l Trydno don Ti	or proderit								

Project/Site: 1461 Edge Lowman	City/County: Choctaw	Sampling Date: 2020-03-07
Applicant/Owner: Edge Lowman		labama Sampling Point: UP2111/UP2112/UP113/UF
Investigator(s): Kyle price Tyler Russell	Section, Township, Range: Needham	1
Landform (hillslope, terrace, etc.): Upland	Local relief (concave, convex, none):	
Subregion (LRR or MLRA): P 135 Lat:	(b)(7)f Long: (b)(7)	
Soil Map Unit Name: IzA		classification:
Are climatic / hydrologic conditions on the site typical for this time	-	' -
Are Vegetation, Soil, or Hydrology signific.		
Are Vegetation, Soil, or Hydrology natural		ny answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area	
Wetland Hydrology Present? Yes No	within a Wetland?	Yes No
Remarks:		
Upland sample points UP2111/ UP2112/ UP2113/ UP2114		
Area disturbed due to previous use by railroad		
HYDROLOGY		
Wetland Hydrology Indicators:	Second	ary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ap	ply) 🔲 Sur	rface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna	(B13)	arsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits	(B15) (LRR U) Dra	ainage Patterns (B10)
Saturation (A3) Hydrogen Sulf	de Odor (C1)	ss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhize	ospheres along Living Roots (C3) 🔲 Dry	y-Season Water Table (C2)
Sediment Deposits (B2)	educed Iron (C4)	ayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron R	eduction in Tilled Soils (C6)	turation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	face (C7)	omorphic Position (D2)
Iron Deposits (B5)	in Remarks)	allow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC	C-Neutral Test (D5)
Water-Stained Leaves (B9)	<u> </u>	hagnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth (inc		
Water Table Present? Yes No Depth (in	,	
Saturation Present? Yes No Depth (includes capillary fringe)	:hes): Wetland Hydrolog	gy Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial p	photos, previous inspections), if available:	
Remarks:		
Hydrology not present		
		,

` ,	names of pl			Sampling Point: UP2111/UP2112/UF
Free Stratum (Plot size: 30 ft r		Dominant		Dominance Test worksheet:
Liriodendron tulipifera	<u>% Cover</u> 5	Species?	FACU	Number of Dominant Species
•			1 700	That Are OBL, FACW, or FAC: 3 (A)
•				Total Number of Dominant
k	0			Species Across All Strata: 7 (B)
·	0			Percent of Dominant Species
i	0			That Are OBL, FACW, or FAC: 43 (A/B
i	0			- ,
, :	0			Prevalence Index worksheet:
i.	0			Total % Cover of: Multiply by:
	5%	= Total Cov	er	OBL species $0 x 1 = 0$
50% of total cover: 3	20% of			FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /0 01	total cover		FAC species $0 \times 3 = 0$
Carpinus caroliniana	10	~	FAC	FACU species $0 \times 4 = 0$
Cornus florida	10		FACU	UPL species $0 x 5 = 0$
	10		FAC	Column Totals: 90 (A) 315 (B)
Liquidambar styraciflua				(1)
Quercus nigra			FAC	Prevalence Index = $B/A = \frac{3.5}{}$
llex opaca	5		FAC	Hydrophytic Vegetation Indicators:
i	0			1 - Rapid Test for Hydrophytic Vegetation
·	0			2 - Dominance Test is >50%
3	0			3 - Prevalence Index is ≤3.0 ¹
	45% :	= Total Cov	er er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 23	20% of	total cover	. 9	Troblematic Trydrophytic Vegetation (Explain)
Herb Stratum (Plot size:30 ft r)				1
Homalium racemosum	20	~	NI	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Hieracium greenii	15		FACU	Definitions of Four Vegetation Strata:
Andropogon virginicus	10		FAC	Definitions of Four Vegetation Strata.
Bouteloua dactyloides	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
Trifolium pratense				more in diameter at breast height (DBH), regardless of height.
5. Thiolium praterise	$-\frac{3}{0}$		FACU	neight.
i	_ -			Sapling/Shrub – Woody plants, excluding vines, less
·	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
l	0			Herb – All herbaceous (non-woody) plants, regardless
)	0			of size, and woody plants less than 3.28 ft tall.
0	0			Woody vine – All woody vines greater than 3.28 ft in
1	0			height.
2	0			
	60%	= Total Cov	er	
50% of total cover: 30		total cover		
Voody Vine Stratum (Plot size: 30 ft r)	20 70 0.	10101 00101	·	
	0			
	$-\frac{\sigma}{0}$			
). 	$-\frac{\sigma}{0}$			
3	$-\frac{0}{0}$			
l	$-\frac{0}{0}$			
j				Hydrophytic
	=	Total Cov	er er	Vegetation
50% of total cover:	20% of	total cover	·	Present? Yes No
500/ -ft-t-l	20% of elow).	total cover	:	Fresent: 165 NO

SOIL Sampling Point: UP2111/UP2112/UP113/

Profile Description: (Describe to the dept	h needed to document the indicator or confirm	n the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	<u>Texture</u> <u>Remarks</u>
0 - 20 10YR 3/3 100		Loamy sand
<u> </u>		- <u></u>
-		
-		
¹ Type: C=Concentration, D=Depletion, RM=	Peduced Matrix MS=Masked Sand Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all I		Indicators for Problematic Hydric Soils ³ :
\	•	
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, L	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)
Black Histic (A3)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
Hydrogen Sulfide (A4) Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Depleted Matrix (F3)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Redox Dark Surface (F6) 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)	Mari (F10) (LRR U)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Ochric (F11) (MLRA 151)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A		wetland hydrology must be present,
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)	•
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	•
Dark Surface (S7) (LRR P, S, T, U)		, 100-, 100-,
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
		Trydric Son Fresent: Tes No
Remarks: Hydric soil not present		
Tryune son not present		

Project/Site: 1461 Lowman_1 C	ity/County: Needham/Choctaw Sampling Date	te: 2020-03-07
Applicant/Owner: NextEra	State: Alabama Sampling Poi	nt: UP2115/UP2116/UP2117
Investigator(s): Tyler Russell S	ection, Township, Range:	•
		Slope (%): 1
_		Datum: WGS 84
Soil Map Unit Name: OkA	NWI classification:	·
Are climatic / hydrologic conditions on the site typical for this time of year		
Are Vegetation, Soil, or Hydrology significantly di		✓ No
Are Vegetation, Soil, or Hydrology naturally prob		
SUMMARY OF FINDINGS – Attach site map showing s		
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	
Hydric Soil Present? Yes No	within a Wetland? Yes No	<u></u>
Wetland Hydrology Present? Yes No✔		
Upland sample for wetlands W2115, W2116, and W2117		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum	of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)	or two requiredy
Surface Water (A1) Aquatic Fauna (B13)		ve Surface (B8)
High Water Table (A2) Marl Deposits (B15)		10 Canado (20)
Saturation (A3) Hydrogen Sulfide Od		
☐ Water Marks (B1) ☐ Oxidized Rhizospher	res along Living Roots (C3) 🔲 Dry-Season Water Table (C	02)
Sediment Deposits (B2)	d Iron (C4)	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction	on in Tilled Soils (C6) Saturation Visible on Aerial	Imagery (C9)
Algal Mat or Crust (B4)	_	
☐ Iron Deposits (B5) ☐ Other (Explain in Rer		
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)	D.T. II)
Water-Stained Leaves (B9) Field Observations:	☐ Sphagnum moss (D8) (LRF	(1, 0)
Surface Water Present? Yes No Depth (inches):		
Water Table Present? Yes No _ Depth (inches):		
Saturation Present? Yes No Depth (inches):		No 🗸
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	, previous inspections), if available:	
Remarks: No hydrology present		

20.4 -			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species'	? Status	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 0 (A)
2	0	-	- ——	Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 0 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	-	= Total Co	ver	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species <u>5</u> x 2 = <u>10</u>
Sapling/Shrub Stratum (Plot size: 15 ft r)			··· <u> </u>	FAC species 15 x 3 = 45
	0			FACU species <u>70</u> x 4 = <u>280</u>
1	0	-		UPL species $0 x 5 = 0$
2	0			Column Totals: 90 (A) 335 (B)
3	0			
4	0			Prevalence Index = $B/A = 3.7$
5	- 			Hydrophytic Vegetation Indicators:
6	0	-		1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
		= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 5				¹ Indicators of hydric soil and wetland hydrology must
1. Pteridium aquilinum	30	~	FACU	be present, unless disturbed or problematic.
2. Bouteloua dactyloides	25	~	FACU	Definitions of Four Vegetation Strata:
3. Schedonorus arundinaceus	15		FAC	
4. Hieracium triste	10		NI	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	10		FACU	height.
6. Dichanthelium clandestinum	5	-	FACW	
7 Polystichum acrostichoides	5		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
··-	0	-	17100	than 3 m. bbit and greater than 3.20 ft (1 m) tail.
8	0	-		Herb – All herbaceous (non-woody) plants, regardless
9	· —	-		of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine - All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	100% =			
50% of total cover: <u>50</u>	20% of	total cove	_{er:} 20	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0	-		
3	0			
4	0			
5.	0			Llydrophytic
·		= Total Co	over	Hydrophytic Vegetation
50% of total cover:				Present? Yes No
Remarks: (If observed, list morphological adaptations beld		total cove		
No hydrophytic vegetation present	ow).			
no nydropnytic vegetation present				

Sampling Point: UP2115/UP2116/UP2117

SOIL Sampling Point: UP2115/UP2116/UP2117

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence o	f indicators.)	
Depth	Matrix			x Features		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks	_
0 - 20	10YR 5/4	100					Loam		
-									
				-					_
·				- ——					
-									
¹ Type: C=C	oncentration, D=De	nletion PM=P	educed Matrix MS	S=Macked	I Sand Gr	aine	² I ocation: P	PL=Pore Lining, M=Mat	riv
	Indicators: (Appli					airis.		or Problematic Hydric	
Histosol			Polyvalue Be		•	RRSTI		ick (A9) (LRR O)	
_	pipedon (A2)		Thin Dark Su		. , .		· —	ick (A9) (LRR S)	
Black Hi			Loamy Muck					d Vertic (F18) (outside	MLRA 150A.B)
	n Sulfide (A4)		Loamy Gleye	-		. •,		nt Floodplain Soils (F19	
_	Layers (A5)		Depleted Ma		,			ous Bright Loamy Soils	
_	Bodies (A6) (LRR I	P, T, U)	Redox Dark		- 6)			A 153B)	(- /
	cky Mineral (A7) (L		Depleted Dai				,	ent Material (TF2)	
Muck Pr	esence (A8) (LRR	U)	Redox Depre	essions (F	8)			allow Dark Surface (TF	12)
☐ 1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			U Other (E	xplain in Remarks)	
Depleted	d Below Dark Surfa	ce (A11)	Depleted Ocl	, ,	•	•			
	ark Surface (A12)		Iron-Mangan					tors of hydrophytic vege	
	rairie Redox (A16)					', U)		nd hydrology must be p	
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					s disturbed or problem	atic.
	Sleyed Matrix (S4)		Reduced Ver						
	ledox (S5)		Piedmont Flo					450D)	
	Matrix (S6)	e T II)	Anomalous E	Bright Loar	my Soils (F20) (MLF	RA 149A, 153C, 1	153D)	
	rface (S7) (LRR P, -ayer (if observed								
Type:	zayer (ii observed	,.							
, , <u> </u>	shoe):		<u> </u>				Hydric Soil P	resent? Yes	No 🗸
	ches):						nyuric 30ii P	resent: res	
Remarks: No hydric soi	l present								
140 Hydrio 301	i present								

Project/Site: 1461 Lowman_1		City/County: Needham/Choct	taw	Sampling Date: 2020-03-08
Applicant/Owner: NextEra		, , <u> </u>	state: Alabama	Sampling Point: UP2118
Investigator(s): Tyler Russell		Section, Township, Range:		
Landform (hillslope, terrace, etc.): Up		Local relief (concave, convex, r		Slope (%): 1
Subregion (LRR or MLRA): P			(b)(7)f	Datum: WGS 84
Soil Map Unit Name: IzA	Lat.	Long.	NWI classifica	
Are climatic / hydrologic conditions or	n the site typical for this time of ye	ar? Yes No (I		
· · · ·				
Are Vegetation, Soil,				
Are Vegetation, Soil,	or Hydrology naturally pro	oblematic? (If needed, ex	xplain any answer	's in Remarks.)
SUMMARY OF FINDINGS –	Attach site map showing	sampling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes No			
Hydric Soil Present?	Yes No	Is the Sampled Area	V = =	N
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes	No
Remarks:		1		
Upland sample for wetland W2118				
HYDROLOGY				
Wetland Hydrology Indicators:	- to many day do also also all the at any also t	<u> </u>		tors (minimum of two required)
Primary Indicators (minimum of one			Surface Soil (
Surface Water (A1)	Aquatic Fauna (B13			tetated Concave Surface (B8)
High Water Table (A2) Saturation (A3)	Marl Deposits (B15 Hydrogen Sulfide C		☐ Drainage Pat ☐ Moss Trim Li	
Water Marks (B1)		eres along Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2)	Presence of Reduc		Crayfish Burr	
Drift Deposits (B3)		tion in Tilled Soils (C6)	_ `	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface		Geomorphic	
Iron Deposits (B5)	Other (Explain in R	emarks)	Shallow Aqui	tard (D3)
Inundation Visible on Aerial Ima	agery (B7)		FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)
Field Observations:				
	S No Depth (inches)			
	S No V Depth (inches)	· ·		
Saturation Present? Yes (includes capillary fringe)	No V Depth (inches)): Wetland H	ydrology Presen	t? Yes No
Describe Recorded Data (stream ga	auge, monitoring well, aerial photo	os, previous inspections), if avail	able:	
Remarks: No hydrology present				
The Hydrology present				

EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: <u>UP2118</u>
Tree Stratum (Plot size: 30 ft r)	% Cover	Dominant Species?		Dominance Test worksheet: Number of Dominant Species
1	0 0			That Are OBL, FACW, or FAC: 0 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 0 (A/B)
6	0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8				OBL species $0 \times 1 = 0$
		Total Cov		FACW species $\frac{5}{}$ x 2 = $\frac{10}{}$
50% of total cover:	20% of	total cover:		FAC species $\frac{15}{x^3} = \frac{45}{45}$
Sapling/Shrub Stratum (Plot size: 15 ft r)	0			FACU species 70
1	0			UPL species 0 $x = 0$
2	0			Column Totals: 90 (A) 335 (B)
3	0			
4	0			Prevalence Index = B/A = 3.7
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cover		
Herb Stratum (Plot size: 5)	20		E4011	¹ Indicators of hydric soil and wetland hydrology must
1. Pteridium aquilinum	30		FACU	be present, unless disturbed or problematic.
2. Bouteloua dactyloides	25		FACU	Definitions of Four Vegetation Strata:
3. Schedonorus arundinaceus	15		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Hieracium triste	10		NI	more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	10		FACU	height.
6. Dichanthelium clandestinum	5		FACW	Sapling/Shrub – Woody plants, excluding vines, less
7. Polystichum acrostichoides	5		FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
		= Total Cov		
50% of total cover: 50 Woody Vine Stratum (Plot size: 30 ft r)	20% of	total cover:	20	
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover		Present? Yes No
Remarks: (If observed, list morphological adaptations belons hydrophytic vegetation present	ow).			

SOIL Sampling Point: UP2118

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	indicator	or confirm	the absence of ir	ndicators.)
Depth	Matrix			x Feature		- 2	_	
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	10YR 4/4	100					Loam	
					· <u></u>			
-								
	-			· ——	· ——			
					· <u></u>			
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	ndicators: (Appli	cable to all Li	RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histosol			Polyvalue Be				. —	(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
Black Hi			Loamy Mucky			R O)		/ertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		(F2)			Floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20)
	Bodies (A6) (LRR I) T III	Redox Dark		-6)		(MLRA 1	• • • • • •
	cky Mineral (A7) (L		Depleted Dar	,	,		1 1 '	t Material (TF2)
=	esence (A8) (LRR I		Redox Depre					ow Dark Surface (TF12)
1 cm Mu	ck (A9) (LRR P, T)	,	Marl (F10) (L	RR U)	•		Other (Exp	lain in Remarks)
	Below Dark Surfac	ce (A11)	Depleted Och					
_	ark Surface (A12)		Iron-Mangan					s of hydrophytic vegetation and
	rairie Redox (A16) (_			, U)		hydrology must be present,
_	lucky Mineral (S1) (leyed Matrix (S4)	LKK (), (3)	Delta Ochric Reduced Ver			ΩΔ 150R)		disturbed or problematic.
_	edox (S5)		Piedmont Flo					
	Matrix (S6)						A 149A, 153C, 153	3D)
	face (S7) (LRR P,	S, T, U)	_	-		, ,		·
Restrictive I	ayer (if observed)):						
Type:								
	ches):		<u></u>				Hydric Soil Pres	sent? Yes No
Remarks: No hydric soi	Inrecent							
No flyulic Soi	i present							

Project/Site: 1461 Lowman_1	Citv/County:	Needham/Choctaw	Sampling Date: 2020-03-08
Applicant/Owner: NextEra		State: Alabama	
Investigator(s): Tyler Russell		vnship, Range:	
Landform (hillslope, terrace, etc.): Upland, Flat		concave, convex, none): None	Slope (%): 1
Subregion (LRR or MLRA): P		Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: MdA			ation:
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes		
Are Vegetation, Soil, or Hydrology _			· ·
Are Vegetation, Soil, or Hydrology _		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site	map snowing sampling	point locations, transects	s, important leatures, etc.
Hydrophytic Vegetation Present? Yes	No Is the	Sampled Area	
Hydric Soil Present? Yes	No 🗸		No <u>′</u>
Wetland Hydrology Present? Yes	No		
Remarks: Upland sample for wetland W2119 and W2120			
Opiand Sample for Welland W2115 and W2120			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; ch	neck all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pa	tterns (B10)
	Hydrogen Sulfide Odor (C1)	Moss Trim L	
	Oxidized Rhizospheres along Liv		Water Table (C2)
1 	Presence of Reduced Iron (C4)	☐ Crayfish Bur	
	Recent Iron Reduction in Tilled S Thin Muck Surface (C7)	_	isible on Aerial Imagery (C9) Position (D2)
-	Other (Explain in Remarks)	Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)	(=	FAC-Neutral	
Water-Stained Leaves (B9)		_	noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Preser	nt? Yes No
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous ir	nspections), if available:	
Remarks: No hydrology present			
The Hydrology present			

20.4 -			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species'	? Status	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 0 (A)
2	0	-	- ——	Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 0 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
	-	= Total Co	ver	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species <u>5</u> x 2 = <u>10</u>
Sapling/Shrub Stratum (Plot size: 15 ft r)			··· <u> </u>	FAC species 15 x 3 = 45
	0			FACU species <u>70</u> x 4 = <u>280</u>
1	0	-		UPL species $0 x 5 = 0$
2	0			Column Totals: 90 (A) 335 (B)
3	0			
4	0			Prevalence Index = $B/A = 3.7$
5	- 			Hydrophytic Vegetation Indicators:
6	0	-		1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
		= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 5				¹ Indicators of hydric soil and wetland hydrology must
1. Pteridium aquilinum	30	~	FACU	be present, unless disturbed or problematic.
2. Bouteloua dactyloides	25	~	FACU	Definitions of Four Vegetation Strata:
3. Schedonorus arundinaceus	15		FAC	
4. Hieracium triste	10		NI	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Trifolium pratense	10		FACU	height.
6. Dichanthelium clandestinum	5	-	FACW	
7 Polystichum acrostichoides	5		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
··-	0	-	17100	than 3 m. bbit and greater than 3.20 ft (1 m) tail.
8	0	-		Herb – All herbaceous (non-woody) plants, regardless
9	· —	-		of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine - All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	100% =			
50% of total cover: <u>50</u>	20% of	total cove	_{er:} 20	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0	-		
3	0			
4	0			
5.	0			Llydrophytic
·		= Total Co	over	Hydrophytic Vegetation
50% of total cover:				Present? Yes No
Remarks: (If observed, list morphological adaptations beld		total cove		
No hydrophytic vegetation present	ow).			
no nydropnytic vegetation present				

Sampling Point: UP2119/UP2120/UP1109

SOIL Sampling Point: UP2119/UP2120/UP1109

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence o	f indicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks	_
0 - 20	10YR 4/4	100					Loam		
-									
	-				-				_
-									_
-									
¹Type: C=Co	oncentration, D=De	pletion. RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.	² Location: P	PL=Pore Lining, M=Mat	rix.
	ndicators: (Appli							or Problematic Hydric	
Histosol	(A1)		☐ Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, I	U) 1 cm Mu	ıck (A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su		. , .		· —	ick (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduced	d Vertic (F18) (outside	MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			nt Floodplain Soils (F19	
_	l Layers (A5)		Depleted Ma					ous Bright Loamy Soils	(F20)
	Bodies (A6) (LRR I		Redox Dark				_ `	A 153B)	
	cky Mineral (A7) (L esence (A8) (LRR		Depleted Day					ent Material (TF2) allow Dark Surface (TF	12)
	ick (A9) (LRR P, T)		Redox Depre		0)			allow Dark Surface (TF Explain in Remarks)	12)
	Below Dark Surfa		Depleted Ocl		(MLRA 1	51)	Other (L	Apiairi iri Nemarko)	
	ark Surface (A12)	()	☐ Iron-Mangan		•	•	, T) ³ Indicat	tors of hydrophytic vege	etation and
	rairie Redox (A16)	MLRA 150A)						nd hydrology must be p	oresent,
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		unles	s disturbed or problem	atic.
	Sleyed Matrix (S4)		Reduced Ver						
	ledox (S5)		Piedmont Flo						
	Matrix (S6)	O T II)	Anomalous E	Bright Loar	my Soils (F20) (MLF	RA 149A, 153C, 1	153D)	
	rface (S7) (LRR P, -ayer (if observed								
Type:	Layer (II Observed	,.							
, , <u> </u>	ches):		<u> </u>				Hydric Soil P	resent? Yes	No 🗸
Remarks:			<u> </u>				Tryunc 3011 F	1636111: 163	
No hydric soi	I present								
_	•								

Project/Site: 1461 Edge Lowman	City/County: Cho	ctaw	Sampling Date: 2020-03-08
Applicant/Owner: Edge Lowman	, , ,		Sampling Point: UP2121/UP2123/UP2124/UP2125
Investigator(s): Kyle Price Tyler Russell	Section, Township	Range: Needham	
Landform (hillslope, terrace, etc.): Depression			Slope (%): <u>3</u>
Subregion (LRR or MLRA): P 135	Lat: (b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: OKA		NWI classifica	ition: N/A
Are climatic / hydrologic conditions on the site typical for t	this time of year? Yes N	o (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology	_ significantly disturbed?	Are "Normal Circumstances" p	present? YesNo
Are Vegetation, Soil, or Hydrology	_ naturally problematic? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site ma		nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes Yes	No Is the Sam No within a Wo		No
Remarks: Upland sample point for UP2121/UP2123/UP2124/UP2	125		
Area disturbed from previous railroad use			
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
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? Yes No [B]	Drainage Pa Moss Trim L Dry-Season Crayfish Bur C6) Geomorphic Shallow Aqu FAC-Neutral	getated Concave Surface (B8) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Position (D2) itard (D3)	
	Depth (inches):	Wetland Hydrology Preser	nt? Yes No 🗸
(includes capillary fringe)			it! Tes NO
Remarks: Hydrology not present	II, aerial photos, previous inspect	ions), if available:	

EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2121/UP2123/UP2124
20.45		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover 10	Species?	Status FAC	Number of Dominant Species 2
1. Pinus taeda			FAC	That Are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			Percent of Dominant Species
5	- <u> </u>			That Are OBL, FACW, or FAC: 67 (A/B)
6	0			Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
8	0			OBL species 0 $x 1 = 0$
_		Total Cov		FACW species $0 \times 2 = 0$
50% of total cover: 5	20% of	total cover	2	FAC species 0 x 3 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 0 x 4 = 0
1. Pinus taeda	10		FAC	
2	0			OFL species x 5 =
3	0			Column Totals: <u>85</u> (A) <u>305</u> (B)
4	0			Prevalence Index = $B/A = 3.6$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	10% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% of	total cover	2	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	40	~	FACU	be present, unless disturbed or problematic.
2. Hieracium triste	15		NI	Definitions of Four Vegetation Strata:
3. Imperata cylindrica	15		UPL	
4. Dichanthelium scabriusculum	10		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			Harb All back according to the All back are seen that the second to the
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.	0			
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.
12.	0			noight.
	80% =	Total Cov	er	
50% of total cover: 40		total covers		
Woody Vine Stratum (Plot size: 30 ft r)		total cover		
1	0			
2.	0			
3.	0			
٥. <u></u>	0			
	0			
5	· -	Total Cov		Hydrophytic Vegetation
EOO/ of total covers				Present? Yes No
50% of total cover: Remarks: (If observed, list morphological adaptations below		total cover:		
Hydrophytic vegetation present				

SOIL Sampling Point: UP2121/UP2123/UP2124

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	n the absence of i	ndicators.)	
Depth	Matrix			ox Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc 2	<u>Texture</u>	Remarks	
0 - 20	10YR 5/2	100					Loamy sand		
	-				-				
-									
_									_
l — -									
-									
1 _T 0-0			Dadward Makee N	IC-Maaka	- C C-		21 anation. Di-	-Dana Lining M-Mat	<u> </u>
	oncentration, D=De Indicators: (Appli					airis.		=Pore Lining, M=Mate Problematic Hydric	
l <u> </u>		Cable to all L			•				Solis .
Histosol			Polyvalue B				. –	(A9) (LRR O)	
	pipedon (A2)		Thin Dark S					(A10) (LRR S)	
ı ≔	istic (A3)		Loamy Muc	-		S O)		/ertic (F18) (outside	
	en Sulfide (A4)		Loamy Gley		(F2)			Floodplain Soils (F19	
	d Layers (A5)		Depleted Ma					s Bright Loamy Soils	(F20)
_	Bodies (A6) (LRR		Redox Dark				(MLRA 1		
	ucky Mineral (A7) (L		Depleted Da					nt Material (TF2)	
	resence (A8) (LRR		Redox Depr	•	- 8)			ow Dark Surface (TF	12)
_	uck (A9) (LRR P, T)		Marl (F10) (•			U Other (Exp	olain in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted O				- \ 3\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	ark Surface (A12)		Iron-Manga					rs of hydrophytic vege	
	rairie Redox (A16)					, U)		hydrology must be p	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochrid					disturbed or problema	atic.
_	Bleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Fl						
	Matrix (S6)		Anomalous	Bright Loa	my Soils (F20) (MLF	RA 149A, 153C, 15	3D)	
	rface (S7) (LRR P,								
Restrictive	Layer (if observed):							
Type:									
Depth (in	ches):						Hydric Soil Pre	sent? Yes	No
Remarks:									
Hydric soil n	ot present								
i									

Project/Site: 1461 Edge Lowman City/	/County: Choctaw Sampling Date: 2020-03-08
Applicant/Owner: Edge Lowman	State: Alabama Sampling Point: UP2122
• • • • • • • • • • • • • • • • • • • •	on, Township, Range: Needham
• • • • • • • • • • • • • • • • • • • •	relief (concave, convex, none): Concave Slope (%): 3
Subregion (LRR or MLRA): P 135 Lat: (b)(7)f	
Soil Map Unit Name: IZA	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problem.	
SUMMARY OF FINDINGS – Attach site map showing san	
Hydrophytic Vegetation Present? Yes Vo. No.	Is the Sampled Area
Hydric Soil Present? Yes No _✓ Wetland Hydrology Present? Yes No _✓	within a Wetland? Yes No
Remarks:	
Upland sample point UP2122	
Area disturbed from previous railroad use	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3) High Water Table (A2) Hydrogen Sulfide Odor (
Water Marks (B1) Saturation (A3) Water Marks (B1) Oxidized Rhizospheres a	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Presence of Reduced Iro	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5) Uther (Explain in Remark	ks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Depth (inches): No Depth (inches): No Depth (inches): No No No Depth (inches): No Depth (inches): No	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Hydrology not present	

EGETATION (Four Strata) – Use scientific na	illes of bi	ants.		Sampling Point: UP2122
Free Stratum (Plot size: 30 ft r)		Dominant Species?		Dominance Test worksheet: Number of Dominant Species
Pinus taeda	- 10		FAC	That Are OBL, FACW, or FAC: 2 (A)
	0			Total Number of Dominant Species Across All Strata: 3 (B)
3 1	0			Species Across All Strata: 3 (B)
5	0			Percent of Dominant Species That Are ORL FACW or FAC: 67 (A/F
5	0			That Are OBL, FACW, or FAC: 67 (A/E
7.	0			Prevalence Index worksheet:
3.	0			Total % Cover of: Multiply by:
<i></i>	10% =	Total Cov	/er	OBL species 10 x 1 = 10
50% of total cover: 5	20% of			FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)		10101 52.2	·	FAC species $\underline{20}$ $\times 3 = \underline{60}$
1. Pinus taeda	10	~	FAC	FACU species 40 x 4 = 160
2.	0			UPL species 15 x 5 = 75
3	0			Column Totals: <u>85</u> (A) <u>305</u> (B
4	0			Prevalence Index = B/A = 3.6
5	0			<u> </u>
6	0			Hydrophytic Vegetation Indicators:
7	0			1 - Rapid Test for Hydrophytic Vegetation
7 8.	0			
	10% =	Total Cov	/er	☐ 3 - Prevalence Index is ≤3.0¹
50% of total cover: 5	20% of			Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30ft r)	20,00.	lutai octo.	· 	4
1. Bouteloua dactyloides	40	V	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Hieracium triste	15		NI	Definitions of Four Vegetation Strata:
3. Imperata cylindrica	15		UPL	
Dichanthelium scabriusculum	10		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DRH), regardless of
5	0			more in diameter at breast height (DBH), regardless of height.
•	0			
	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7 R	0			
8 9.	0			Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
9 10	0			
	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12		Total Cov		
50% of total cover: 40		= Total Cov f total cover:		
Woody Vine Stratum (Plot size: 30 ft r)	_			
1	0			
2.	0			
3.	0			
4.	0			
 5.	0			H
		Total Cov	/er	Hydrophytic Vegetation
J		1016. 00.	Ci	
50% of total cover:		total cover		Present? Yes V No No

SOIL Sampling Point: UP2122

Profile Desc	ription: (Describe	to the depth	n needed to docur	ment the i	indicator	or confirm	n the absence of ind	icators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	10YR 3/2	100					Loamy sand	
-								
_								
						. ——		
-								
¹Type: C=C	oncentration, D=De	pletion RM=F	Reduced Matrix Ma	S=Masked	d Sand Gi	ains	² I ocation: PI =Po	ore Lining, M=Matrix.
	Indicators: (Appli							oblematic Hydric Soils ³ :
Histosol			Polyvalue Be		•	RR S. T. I		
	oipedon (A2)		Thin Dark Su				2 cm Muck (A	
_	stic (A3)		Loamy Muck					tic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye					odplain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			Anomalous B	right Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark	Surface (F	- 6)		(MLRA 153	
	ıcky Mineral (A7) (L		Depleted Da	rk Surface	(F7)		Red Parent M	
	esence (A8) (LRR		Redox Depre	•	8)			Dark Surface (TF12)
_	ick (A9) (LRR P, T)		☐ Marl (F10) (L	-			U Other (Explai	n in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted Oc				T) 31.2.41.2.42.2.2	of handron handra are stations and
	ark Surface (A12) rairie Redox (A16) (MI DA 150A)	☐ Iron-Mangan☐ Umbric Surfa				•	of hydrophytic vegetation and ydrology must be present,
	fucky Mineral (S1)		Delta Ochric			, 0)		turbed or problematic.
	Gleyed Matrix (S4)	LIKIK O, O)	Reduced Ve			50A 150B		turbed of problematic.
	Redox (S5)		Piedmont Flo					
	Matrix (S6)						RA 149A, 153C, 153D)
	rface (S7) (LRR P,	S, T, U)		Ü		, , ,		•
	Layer (if observed							
Type:								
Depth (in	ches):						Hydric Soil Prese	nt? Yes No 🗸
Remarks:	,		<u></u>				1 -	
Hydric soil no	ot present							

n	City/County: Choctaw	Sampling Date: 2020-03-09
1		Sampling Point: UP2126/ UP2127
	· · · · · · · · · · · · · · · · · · ·	
		Slope (%):
		Datum: WGS 84
	-	cation:
s on the site typical for this time of ve		
Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes	No
10310		
		cators (minimum of two required)
		egetated Concave Surface (B8)
— · ·	· · · · · · · · · · · · · · · · · · ·	n Water Table (C2)
·		urrows (C8)
Recent Iron Reduc	tion in Tilled Soils (C6) Saturation	Visible on Aerial Imagery (C9)
Thin Muck Surface	(C7) Geomorph	ic Position (D2)
		quitard (D3)
Imagery (B7)	=	al Test (D5)
	<u> </u>	moss (D8) (LRR T, U)
(a. Na M. Danth (back as)		
	· ———	ent? Yes No ✔
		ent: Tes NO
n gauge, monitoring well, aerial photo	os, previous inspections), if available:	
	Russell Upland, Flat Son the site typical for this time of year, or Hydrology significantly, or Hydrology naturally property, or Hydrology, no, No, No	Russell Section, Township, Range: Land Upland, Flat Local relief (concave, convex, none): None Lat (b)(7)f NWI classifi NWI classifi on the site typical for this time of year? Yes on the site typical for this time of year? Yes on the site typical for this time of year? Yes on the site typical for this time of year? Yes on the site typical for this time of year? Yes on the site typical for this time of year? Yes No on thydrology naturally problematic? Is the Sampled Area within a Wetland? Yes One is required; check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Imagery (B7)

20 4 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Liquidambar styraciflua	10		FAC	That Are OBL, FACW, or FAC: _5 (A)
2. Pinus taeda	10		FAC	Total Number of Dominant
3. Quercus nigra	10		FAC	Species Across All Strata: 7 (B)
4. Juniperus virginiana	5		FACU	Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 71 (A/B)
6	0			- '
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	35% =	Total Cov	er	OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$
50% of total cover: 18	20% of			FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$
1. Ilex vomitoria	15	v	FAC	FACU species $0 \times 4 = 0$
2. Liquidambar styraciflua	5		FAC	UPL species $0 x 5 = 0$
	0			Column Totals: 100 (A) 325 (B)
3	0			
4	0			Prevalence Index = $B/A = 3.3$
5				Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	20% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover:	4	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	15	✓	FACU	be present, unless disturbed or problematic.
2 Hieracium greenii	10	~	FACU	Definitions of Four Vegetation Strata:
3. Allium cernuum	5		FACU	
4. Arundinaria tecta	5		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Asplenium platyneuron	5		FACU	more in diameter at breast height (DBH), regardless of height.
6 Juncus effusus	5		OBL	
0	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			than 3 m. bbit and greater than 3.20 ft (1 m) tail.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	· —			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	45% =	Total Cov	er	
50% of total cover: 23	20% of	total cover:	9	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4.	0			
5.	0			Unidos alentis
v	- <u></u>	Total Cov		Hydrophytic Vegetation
50% of total cover:		total cover:		Present? Yes No
		total cover.		
Remarks: (If observed, list morphological adaptations belo	ow).			
Hydrophytic vegetation present				

Sampling Point: UP2126/UP2127

SOIL Sampling Point: UP2126/ UP2127

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirn	n the absence o	of indicato	ors.)	
Depth	Matrix	%		x Features		100 2	Taytura		Domorko	
(inches) 0 - 10	Color (moist) 10YR 3/2	%	Color (moist)	<u>%</u>	Type'	Loc ²	Texture Sandy loam		Remarks	
0-10	10113/2						Sandy loam			
	-						- <u></u>			
-										
							<u> </u>			
-	-			·			· · · · · · · · · ·			
-										
¹Type: C=Co	oncentration, D=De	pletion RM=R	educed Matrix MS	S=Masked	Sand Gr	ains	² l ocation: F	PI =Pore I	ining, M=Mati	rix
	Indicators: (Appli								matic Hydric	
Histosol (Polyvalue Be		•	RR S. T. I		uck (A9) (L	-	
	oipedon (A2)		Thin Dark Su		. , .			uck (A10) (•	
Black His			Loamy Muck							MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye	-		-,) (LRR P, S, T)
	Layers (A5)		Depleted Mar		,				Loamy Soils	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		⁷ 6)			A 153B)	•	` ,
_	cky Mineral (A7) (L		Depleted Dar	k Surface	(F7)		,	rent Materi	ial (TF2)	
Muck Pro	esence (A8) (LRR	U)	Redox Depre	essions (F	8)			allow Dark	Surface (TF	12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			U Other (E	Explain in F	Remarks)	
Depleted	d Below Dark Surfa	ce (A11)	Depleted Och		•	•				
l ==	ark Surface (A12)		Iron-Mangan	ese Masse	es (F12) (LRR O, P,		-	drophytic vege	
	rairie Redox (A16)		Umbric Surfa			', U)		-	ogy must be p	
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					ss disturbe	d or problema	atic.
_	Sleyed Matrix (S4)		Reduced Ver							
	edox (S5)		Piedmont Flo							
	Matrix (S6)	o =	Anomalous E	Bright Loar	ny Soils (F20) (MLF	RA 149A, 153C,	153D)		
	rface (S7) (LRR P,						1			
_	ayer (if observed									
Type:			<u> </u>							
Depth (inc	ches):						Hydric Soil F	Present?	Yes	_ No <u> </u>
Remarks:										
Hydric soil no Gravel fill res	ot present tricting be able to d	lia bevond 10 i	nches							
Olavel IIII 165	anothing be able to e	ing boyona to t	Horico							
1										
1										

Project/Site: 1461 Edge Lowman	City/County: Choctaw	Sampling Date: 2020-03-09
Applicant/Owner: Edge Lowman		Sampling Point: UP2128/ UP2129
Investigator(s): Kyle Price Tyler Russell	Section, Township, Range: Land	
Landform (hillslope, terrace, etc.): Upland, Flat	Local relief (concave, convex, none): None	Slope (%): 0
- · · · ·	(7)f Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: MdA	NWI classifica	N1/A
Are climatic / hydrologic conditions on the site typical for this time of y	_	
Are Vegetation, Soil, or Hydrology significantl		
Are Vegetation, Soil, or Hydrology naturally p		
		,
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No	Is the Sampled Area	
Hydric Soil Present? Yes No	with the a Markhamato Man	No <u> </u>
Wetland Hydrology Present? Yes No		
Remarks:		
Upland sample point UP2128/ UP2129		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil (Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	13) Sparsely Veç	getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1)	5) (LRR U) Drainage Pat	terns (B10)
Saturation (A3)		nes (B16)
		Water Table (C2)
Sediment Deposits (B2) Presence of Redu D Reduction 10 Presence of R		
	_	sible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surfac	<u> </u>	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	
Water-Stained Leaves (B9)		noss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth (inche	s):	
Water Table Present? Yes No Depth (inche		
Saturation Present? Yes No Depth (inche	s): Wetland Hydrology Presen	t? Yes No 🗸
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:	
Remarks: Hydrology not present		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species _
1. Liquidambar styraciflua	10		FAC	That Are OBL, FACW, or FAC: 5 (A)
2. Pinus taeda	10		FAC	Total Number of Dominant
3. Quercus nigra	10		FAC	Species Across All Strata: 7 (B)
4. Juniperus virginiana	5		FACU	Dercent of Deminent Species
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 71 (A/B)
6	0			- '
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	35% =	Total Cov	er	OBL species $\frac{5}{x}$ $x = \frac{5}{x}$
50% of total cover: 18	20% of	total cover:	7	FACW species 5 $x 2 = 10$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 50 x 3 = 150
1. Ilex vomitoria	15	~	FAC	FACU species <u>40</u> x 4 = <u>160</u>
2. Liquidambar styraciflua	5		FAC	UPL species $0 \times 5 = 0$
<u> </u>	0			Column Totals: 100 (A) 325 (B)
3	0			
4	0			Prevalence Index = $B/A = \frac{3.3}{}$
5	0			Hydrophytic Vegetation Indicators:
6	- —			1 - Rapid Test for Hydrophytic Vegetation
7				
8	0			3 - Prevalence Index is ≤3.0 ¹
	20% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 10	20% of	total cover:	4	
Herb Stratum (Plot size: 30ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	15	V	FACU	be present, unless disturbed or problematic.
2. Hieracium greenii	10	'	FACU	Definitions of Four Vegetation Strata:
3. Allium cernuum	5		FACU	Trace Mandy plants avaluating viscos 2 in (7.0 am) as
4. Arundinaria tecta	5		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Asplenium platyneuron	5		FACU	height.
6 Juncus effusus	5		OBL	Canling/Chruh Waady plants avaluding vines loss
7	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
9	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u> </u>	0			of size, and woody plants less than 5.20 it tall.
10.	0			Woody vine – All woody vines greater than 3.28 ft in
11.	- -			height.
12.	0			
00		Total Cov		
50% of total cover: 23	20% of	total cover:	9	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo				
Hydrophytic vegetation present	,.			
7				

Sampling Point: UP2128/UP2129

SOIL Sampling Point: UP2128/UP2129

Profile Desc	cription: (Describe	to the depth	needed to docum	nent the	indicator	or confirm	the absence of ind	icators.)	
Depth	Matrix			x Feature		. 2	- .	Б	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0-3	10YR 3/2	_ 100 _					Sandy loam		
3 - 10	10YR 3/4	100					Clay loam		
_									
_									
				· 					
¹ Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to all LI	RRs, unless other	wise not	ed.)		Indicators for Pr	oblematic Hydric Soi	ls³:
Histosol	(A1)		Polyvalue Be	low Surfa	ice (S8) (L	RR S, T, U	J) 🔲 1 cm Muck (<i>F</i>	49) (LRR O)	
	pipedon (A2)		Thin Dark Su				2 cm Muck (A		
. 	istic (A3)		Loamy Muck			R O)		tic (F18) (outside MLI	
_	en Sulfide (A4)		Loamy Gleye		(F2)			odplain Soils (F19) (L l	
_	d Layers (A5) Bodies (A6) (LRR l	D T II\	Depleted Mat		-6)		Anomalous E	Bright Loamy Soils (F20	י)
= -	ucky Mineral (A7) (L		Depleted Dar	•	,			Material (TF2)	
	resence (A8) (LRR		Redox Depre					Dark Surface (TF12)	
	uck (A9) (LRR P, T)		Marl (F10) (L	•	-,			n in Remarks)	
Depleted	d Below Dark Surfa	ce (A11)	Depleted Och	nric (F11)	(MLRA 1	51)			
=	ark Surface (A12)		Iron-Mangan					of hydrophytic vegetati	
. 	rairie Redox (A16)	` ,	=			', U)		ydrology must be pres	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			OA 450D\		turbed or problematic.	
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver Piedmont Flo						
_	Matrix (S6)						A 149A, 153C, 153D)	
_	rface (S7) (LRR P,	S. T. U)		night Loa	iny cons (1 20) (MIZIX	A 140A, 1000, 100D	,	
	Layer (if observed								
Type:			<u></u>						
Depth (in	ches):						Hydric Soil Prese	nt? YesN	No <u> </u>
Remarks:									
Hydric soil no									
Gravel fill res	stricted ability to dig	beyond 10 inc	ches						

Project/Site: 1461 Edge Lowman	City/County: C	hoctaw	Sampling Date: 2020-03-09
Applicant/Owner: Edge Lowman			Sampling Point: UP2130/UP2131/UP2132
Investigator(s): Kyle Price Tyler Russell	Section, Townsh	ip, Range: Land	
Landform (hillslope, terrace, etc.): Upland, Flat		cave, convex, none): <u>none</u>	Slope (%): 0
Subregion (LRR or MLRA): P 135		Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: IZA	Lat.	NWI classifica	NI/A
Are climatic / hydrologic conditions on the site typical	for this time of year? Vos		-
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site	map showing sampling po	oint locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sa	mpled Area	
Hydric Soil Present? Yes	No within a		No 🗸
Wetland Hydrology Present? Yes	No		
Remarks:			
Upland sample point UP2130/ UP2131/ UP2132			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	itors (minimum of two required)
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface Soil	
	quatic Fauna (B13)		getated Concave Surface (B8)
	Marl Deposits (B15) (LRR U)	☐ Drainage Pat	
Saturation (A3)	lydrogen Sulfide Odor (C1)	Moss Trim Li	ines (B16)
Water Marks (B1)	Oxidized Rhizospheres along Living	Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	resence of Reduced Iron (C4)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	s (C6) \square Saturation Vi	sible on Aerial Imagery (C9)
	hin Muck Surface (C7)	Geomorphic	Position (D2)
1 -	Other (Explain in Remarks)	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	, ,
Water-Stained Leaves (B9)		<u> </u>	noss (D8) (LRR T, U)
Field Observations:	5 H ()		
	Depth (inches):		
	Depth (inches):		.40 V N- V
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspe	ections), if available:	
Remarks: Hydrology not present			

20.4 -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r)		Species?	<u>Status</u>	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 5 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 40 (A/B)
6	0			Bassalan as Indaessa da hasta
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by: OBL species 0 v 1 = 0
	=	Total Cov	er	OBE species X 1 =
50% of total cover:	20% of	total cover:		FACW species 0 $x = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				1 AC species X 3 =
1. Morella cerifera	5		FAC	FACU species $\frac{0}{0}$ $x = 0$
2	0			UPL species $\frac{0}{57}$ x 5 = $\frac{0}{200}$
3.	0			Column Totals: <u>55</u> (A) <u>200</u> (B)
4.	0			Prevalence Index = $B/A = 3.6$
5.	0			
6.	0			Hydrophytic Vegetation Indicators:
7	0			1 - Rapid Test for Hydrophytic Vegetation
8.	0			2 - Dominance Test is >50%
o	5% =	Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 3	20% of			Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 30ft r)	20 /6 01	total cover.	· <u></u>	
1. Bouteloua dactyloides	15	~	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Andropogon gerardii	10		FAC	
3. Eupatorium capillifolium	10		FACU	Definitions of Four Vegetation Strata:
Hieracium greenii	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5 Morella cerifera	5		FAC	more in diameter at breast height (DBH), regardless of
·	0		FAC	height.
6	- 0			Sapling/Shrub – Woody plants, excluding vines, less
7	. <u> </u>			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	50% =	Total Cov	er	
50% of total cover: 25	20% of	total cover:	10	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5.	0			Hydrophytic
		Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations below				
Hydrophytic vegetation not present	J.,.			
Area recently logged with lots of exposed bare ground				

Sampling Point: UP2130/UP2131/UP213:

SOIL Sampling Point: UP2130/UP2131/UP213:

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	n the absence of	indicators.)	
Depth	Matrix		Red	ox Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	<u> </u>
0 - 20	10YR 6/3	100					Sand		
					-				
-									
_									_
l ——									
-									
1 _T 0-0	turation D-D-		Saduand Matrix N	IC-Maaka	- C C-		21 4: DI	-Dana Linina M-Ma	4 miles
	oncentration, D=De Indicators: (Appli					ains.		_=Pore Lining, M=Ma r Problematic Hydri	
l <u> </u>		Cable to all L			•			-	C SUIS .
Histosol			Polyvalue B				. —	ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark S					ck (A10) (LRR S)	
ı ≔	stic (A3)		Loamy Muc	-		R O)		Vertic (F18) (outside	
	en Sulfide (A4)		Loamy Gley		(F2)			t Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma					us Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR		Redox Dark				(MLRA		
	ıcky Mineral (A7) (L		Depleted Da					ent Material (TF2)	
	resence (A8) (LRR		Redox Depr	•	-8)			llow Dark Surface (The	-12)
_	ıck (A9) (LRR P, T)		Marl (F10) (•			U Other (Ex	plain in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted Oc						
	ark Surface (A12)		Iron-Mangai					ors of hydrophytic veg	
	rairie Redox (A16)					, U)		nd hydrology must be	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochrid					disturbed or problen	natic.
	Sleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI						
	Matrix (S6)			Bright Loa	my Soils (F20) (MLF	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P,								
Restrictive	Layer (if observed):							
Type:									
Depth (in	ches):						Hydric Soil Pr	esent? Yes	No
Remarks:									
Hydric soil n	ot present								

Project/Site: 1461 Edge Lowman City/0	County: Choctaw	Sampling Date: 2020-03-11
Applicant/Owner: Edge Lowman		ampling Point: UP2133/UP2134/UP2135/UP
	on, Township, Range: Needham	
	relief (concave, convex, none): none	Slope (%): 0
Subregion (LRR or MLRA): P 135 Lat: (b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: OKA	NWI classification	N1/A
Are climatic / hydrologic conditions on the site typical for this time of year? Y		
Are Vegetation, Soil, or Hydrology significantly disturb		
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in	n Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, ir	mportant features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No		
Hydric Soil Present? Yes No	Is the Sampled Area	N - V
Wetland Hydrology Present? Yes No	within a Wetland? Yes	NO
Remarks:		
Upland sample point UP2133/ UP2134/UP2135/ UP2136		
LIVEROLOGY		
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicator	s (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Secondary indicators Surface Soil Cra	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1) Aquatic Fauna (B13)		ated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRF		
Saturation (A3) Hydrogen Sulfide Odor (C	_	
Water Marks (B1) Oxidized Rhizospheres a	_	
Sediment Deposits (B2) Presence of Reduced Iron	n (C4)	rs (C8)
Drift Deposits (B3) Recent Iron Reduction in	Tilled Soils (C6) Saturation Visib	le on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Pos	sition (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark		
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Te	
☐ Water-Stained Leaves (B9) Field Observations:	Spnagnum mos	s (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches):		
Water Table Present? Yes No Depth (inches):		
Saturation Present? Yes No Depth (inches):		Yes No ✔
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Hydrology not present		

20.4		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Carpinus caroliniana	10		FAC	That Are OBL, FACW, or FAC: 6 (A)
2. Liquidambar styraciflua	10		FAC	Total Number of Dominant
3. Ostrya virginiana	10		FACU	Species Across All Strata: 10 (B)
4. Pinus glabra	10		FACW	Percent of Dominant Species
5. Pinus taeda	10		FAC	That Are OBL, FACW, or FAC: 60 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	50% =	Total Cov	er	OBL species $\frac{0}{0}$ $x = \frac{0}{0}$
50% of total cover: <u>25</u>	20% of	total cover:	10	FACW species $\frac{0}{2}$ $x = \frac{0}{2}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $0 \times 3 = 0$
1. Carpinus caroliniana	5	✓	FAC	FACU species $0 \times 4 = 0$
2. Juniperus virginiana	5		FACU	UPL species <u>0</u> x 5 = <u>0</u>
3. Liquidambar styraciflua	5		FAC	Column Totals: <u>80</u> (A) <u>260</u> (B)
4.	0			Decorder of Index
5.	0			Prevalence Index = $B/A = \frac{3.3}{1.00}$
	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8		Total Cov		3 - Prevalence Index is ≤3.0 ¹
500/ of total acress 8				Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 8	20% of	total cover:		
Herb Stratum (Plot size: 30 ft r) 1. Bouteloua dactyloides	10	V	FACU	¹ Indicators of hydric soil and wetland hydrology must
2. Asplenium platyneuron	5		FACU	be present, unless disturbed or problematic.
	0		FACU	Definitions of Four Vegetation Strata:
3	· <u> </u>			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11.	0			height.
12.	0			
	15% =	Total Cov	er	
50% of total cover: 8	20% of	total cover:	3	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0			
3.	0			
4.	0			
5	0			
J	·	Total Cov		Hydrophytic Vegetation
EOO/ of total covers				Present? Yes No
50% of total cover:		total cover:		
Remarks: (If observed, list morphological adaptations belo	ow).			
Hydrophytic vegetation present				

Sampling Point: UP2133/UP2134/UP2135/

SOIL Sampling Point: UP2133/UP2134/UP2135/

Profile Description: (Describe to the depth	needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0 - 20 10YR 4/3 100		Sandy loam
-		
-		
¹ Type: C=Concentration, D=Depletion, RM=F	Peduced Matrix MS=Masked Sand Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils ³ :
1	•	
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)
Black Histic (A3)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
Hydrogen Sulfide (A4) Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Depleted Matrix (F3)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Redox Dark Surface (F6) 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)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)		wetland hydrology must be present,
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)	•
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	-
Dark Surface (S7) (LRR P, S, T, U)		, 1001, 1000, 1000,
Restrictive Layer (if observed):		
Type:		
Depth (inches):	_	Hydric Soil Present? Yes No
		nyunc son Fresent: Tes No
Remarks: Hydric soil not present		
Tryune son not present		

Project/Site: 1461 Edge Lowman	City/Cou	_{unty:} Choctaw	Sampling Date: 2020-03-11
Applicant/Owner: Edge Lowman			Sampling Point: UP2137
Investigator(s): Kyle Price Tyler Russell	Section.	Township, Range: Toxey	
Landform (hillslope, terrace, etc.): Upland, Flat		ief (concave, convex, none): none	Slope (%): 0
Subregion (LRR or MLRA): P 135	Lat: (b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: SaB	Lat. City	NWI classifica	N1/A
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed		
Are Vegetation, Soil, or Hydrology		•	·
SUMMARY OF FINDINGS – Attach site			
		3 1	, , , , , , , , , , , , , , , , , , , ,
Hydrophytic Vegetation Present? Yes	No Is	the Sampled Area	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No w	rithin a Wetland? Yes	No
Remarks:	NO		
Upland sample point UP2137			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; che	ck all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	quatic Fauna (B13)		getated Concave Surface (B8)
1 	arl Deposits (B15) (LRR U		
Saturation (A3)	ydrogen Sulfide Odor (C1)	☐ Moss Trim Li	nes (B16)
Water Marks (B1)	xidized Rhizospheres alon	ig Living Roots (C3) 🔲 Dry-Season '	Water Table (C2)
Sediment Deposits (B2)	resence of Reduced Iron (0	C4) <u> </u>	rows (C8)
	ecent Iron Reduction in Till	led Soils (C6)	sible on Aerial Imagery (C9)
	hin Muck Surface (C7)	☐ Geomorphic	` '
	ther (Explain in Remarks)	☐ Shallow Aqui	
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		FAC-Neutral	,
Field Observations:		Spriagrium ii	noss (D8) (LRR T, U)
	Depth (inches):		
	Depth (inches):		
	Depth (inches):		t? Yes No ✓
(includes capillary fringe)			. 105 110
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous	us inspections), if available:	
Remarks: Hydrology not present			

	р.	ants.		Sampling Point: UP2137
<u>Tree Stratum</u> (Plot size: 30 ft r)		Dominant Species? ✓		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Liquidambar styraciflua	15		FAC	That Are OBL, FACW, or FAC: $\frac{3}{}$ (A)
Pinus taeda	10		FAC	Total Number of Dominant
Quercus falcata	10		FACU	Species Across All Strata: 4 (B)
	10		FAC	Percent of Dominant Species
Quercus nigra	0		FAC	That Are OBL, FACW, or FAC: 75 (A/B)
i	- —			Prevalence Index worksheet:
.	0			Total % Cover of: Multiply by:
ß	0			OBL species $\frac{0}{x} = \frac{0}{x^2 + 1}$
		Total Cov		FACW species $0 \times 2 = 0$
50% of total cover: 30	20% of	total cover:	12	
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACUspecies $\frac{60}{20}$ $x_3 = \frac{180}{80}$
Carpinus caroliniana	10		FAC	1 AOO species
Ostrya virginiana	10	~	FACU	01 L opcoico X 0
3	0			Column Totals: <u>80</u> (A) <u>260</u> (B)
ı.	0			Prevalence Index = B/A = 3.3
j.	0			
5.	0			Hydrophytic Vegetation Indicators:
·	0	-		1 - Rapid Test for Hydrophytic Vegetation
	0			<u>✓</u> 2 - Dominance Test is >50%
)	20% =	Total Cov		3 - Prevalence Index is ≤3.0 ¹
500/ - 51-1-1 10				Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover	-	
Herb Stratum (Plot size: 30 ft r)	0			¹ Indicators of hydric soil and wetland hydrology must
l	0			be present, unless disturbed or problematic.
). 	- 			Definitions of Four Vegetation Strata:
B	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
k	0			more in diameter at breast height (DBH), regardless of
5	0			height.
S	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3	0			Herb – All herbaceous (non-woody) plants, regardless
)	0			of size, and woody plants less than 3.28 ft tall.
10	0			Manda da da Allacada dina arrada than 2.20 ft in
10.	0			Woody vine – All woody vines greater than 3.28 ft in
	U			
1	0			height.
1	0	= Total Cov		
11	0	= Total Cov		
11	0	= Total Cov total cover:		
11	0 = 20% of			
11	0 = 20% of			
11	0 = 20% of			
10	0 20% of 0 0 0			
1	20% of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
50% of total cover:	0 20% of 0 0 0			height. Hydrophytic
11	0 20% of 0 0 0 0 0	total cover:	er	height.

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence of	indicators.)	
Depth	Matrix			x Feature:			_		
(inches)	Color (moist)	<u> % </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 20	10YR 4/3	100					Sand		
-									
_									
	-				-				
	-				-				
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	educed Matrix, MS	S=Masked	I Sand Gr	ains.	² Location: PL	_=Pore Lining, M=Matrix.	
Hydric Soil	ndicators: (Applie	cable to all Li	RRs, unless other	wise not	ed.)		Indicators for	r Problematic Hydric S	oils³:
Histosol			Polyvalue Be				. —	ck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
Black Hi			Loamy Mucky			R O)		Vertic (F18) (outside MI	
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		F2)			: Floodplain Soils (F19) (us Bright Loamy Soils (F	
	Bodies (A6) (LRR F	P T II)	Redox Dark S	. ,	6)		(MLRA	• • •	20)
	cky Mineral (A7) (L		Depleted Dar	•	,			nt Material (TF2)	
	esence (A8) (LRR I		Redox Depre					llow Dark Surface (TF12)
1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)	•		Other (Ex	plain in Remarks)	•
	d Below Dark Surfac	ce (A11)	Depleted Och						
_	ark Surface (A12)		Iron-Mangan					ors of hydrophytic vegeta	
	rairie Redox (A16) (, U)		d hydrology must be pre	
_	lucky Mineral (S1) (Bleyed Matrix (S4)	LKK U, 3)	Delta Ochric Reduced Ver			.0Δ 150R)		disturbed or problemation	J.
_	ledox (S5)		Piedmont Flo						
	Matrix (S6)						A 149A, 153C, 15	53D)	
	rface (S7) (LRR P,	S, T, U)				, ,		•	
Restrictive I	_ayer (if observed)):							
Type:			<u> </u>						
	ches):		_				Hydric Soil Pro	esent? Yes	No
Remarks: Hydric soils r	not present								
Tryunc sons i	iot present								

Project/Site: 1461 Edge Lowman		City/	County: Choctaw		Sampling Date: 2020-03-11
Applicant/Owner: Edge Lowman					Sampling Point: UP2138
Investigator(s): Kyle Price Tyler Ru	ıssell	Section	on, Township, Range: G		
Landform (hillslope, terrace, etc.): Up			relief (concave, convex,		Slope (%): 0
Subregion (LRR or MLRA): P 135		Lat: (b)(7)f		(b)(7)f	Datum: WGS 84
Soil Map Unit Name: ArF	-	_ Lut	Long.	NWI classificat	
Are climatic / hydrologic conditions on	the site typical for	this time of year? V	os V No		
					resent? Yes <u> </u>
Are Vegetation, Soil, c					
Are Vegetation, Soil, c				explain any answer	ŕ
SUMMARY OF FINDINGS –	Attach site ma	p showing sam	pling point location	ons, transects,	important features, etc.
Hydrophytic Vegetation Present?	Yes	No 🗸	le the Compled Avec		
Hydric Soil Present?	Yes	No <u> </u>	Is the Sampled Area within a Wetland?	Vas	No ✓
Wetland Hydrology Present?	Yes	No <u>′</u>	within a wettand:	163	
Remarks:					
Upland sample point UP2138					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one	is required; check a	all that apply)		Surface Soil (· · · · · · · · · · · · · · · · · · ·
Surface Water (A1)		tic Fauna (B13)			etated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF	R U)	☐ Drainage Pat	
Saturation (A3)	Hydro	ogen Sulfide Odor (0	C1)	Moss Trim Lin	nes (B16)
Water Marks (B1)	U Oxidi:	zed Rhizospheres a	long Living Roots (C3)	Dry-Season V	Vater Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro	' '	Crayfish Burn	
☐ Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	ra)	Geomorphic I	
☐ Iron Deposits (B5)☐ Inundation Visible on Aerial Ima	·	(Explain in Remark	(S)	Shallow Aquit	, ,
Water-Stained Leaves (B9)	gery (Dr)				oss (D8) (LRR T, U)
Field Observations:					,,,,,,
Surface Water Present? Yes	No 🔽 [Depth (inches):			
Water Table Present? Yes	No 🔽 [Depth (inches):			
Saturation Present? Yes	No 🖍 [Depth (inches):	Wetland I	Hydrology Presen	t? Yes No <u> </u>
(includes capillary fringe) Describe Recorded Data (stream ga	uge, monitoring we	II. aerial photos, pre	vious inspections), if ava	ailable:	
	-g-,g	., р, р	,,,,,		
Remarks:					
Hydrology not present					

EGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point: UP2138
20.4	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
Liriodendron tulipifera	_ 15		FACU	That Are OBL, FACW, or FAC: 3 (A)
Pinus taeda	10		FAC	Total Number of Dominant
3. Quercus alba	10		FACU	Species Across All Strata: 7 (B)
4. Quercus falcata	10		FACU	Percent of Dominant Species
5. Pinus glabra	5		FACW	That Are OBL, FACW, or FAC: 43 (A/B)
5	0			
7	0			Prevalence Index worksheet:
3	0			Total % Cover of: Multiply by:
	50% :	= Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 25	20% of	total cover:	10	FACW species $\frac{5}{25}$ $\times 2 = \frac{10}{405}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{35}{20}$ x 3 = $\frac{105}{200}$
l llex opaca	10	✓	FAC	FACU species 50 $x 4 = 200$
Liquidambar styraciflua	10		FAC	UPL species $0 \times 5 = 0$
3. Ostrya virginiana	10		FACU	Column Totals: 90 (A) 315 (B)
Pinus taeda	5		FAC	
5. Quercus alba	5		FACU	Prevalence Index = $B/A = 3.5$
* -	0			Hydrophytic Vegetation Indicators:
5	0			1 - Rapid Test for Hydrophytic Vegetation
7	- 0			2 - Dominance Test is >50%
3	- 			3 - Prevalence Index is ≤3.0 ¹
20		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:	8	
Herb Stratum (Plot size: 30ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
3	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3	0			Herb – All herbaceous (non-woody) plants, regardless
9.	0			of size, and woody plants less than 3.28 ft tall.
10.	0			
11.	0			Woody vine – All woody vines greater than 3.28 ft in height.
	0			neight.
12		Total Cov	or	
50% of total cover:		total cover:		
Noody Vine Stratum (Plot size: 30 ft r)	20 /6 01	lotal cover.	· 	
	0			
1	- 0			
2.	- 0			
3	- 0			
4	- 0			
5				Hydrophytic
	:	Total Cov	er	Vegetation No. No.
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations bel Hydrophytic vegetation not present	ow).			

Profile Description: (Description)	cribe to the depth	needed to docur	nent the	indicator	or confirn	n the absence of i	ndicators.)	
Depth Ma			x Feature		. 2			
(inches) Color (moi		Color (moist)	%	Type'	Loc ²	Texture	Remarks	_
0 - 2 5YR 3/1	100					Loam		_
2 - 20 <u>5Y 4/6</u>	100					Clay		_
				_				_
-								
-								
				-				_
			-					_
						2		_
¹ Type: C=Concentration, D Hydric Soil Indicators: (A					ains.		=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :	
Histosol (A1)	pplicable to all L	Polyvalue Be		•	DD C T I		(A9) (LRR O)	
Histic Epipedon (A2)		Thin Dark Su		. , .			(A3) (LRR S)	
Black Histic (A3)		Loamy Muck					/ertic (F18) (outside MLRA 150A,	B)
Hydrogen Sulfide (A4)		Loamy Gleye	-		•		Floodplain Soils (F19) (LRR P, S,	
Stratified Layers (A5)		Depleted Ma					s Bright Loamy Soils (F20)	
Organic Bodies (A6) (L		Redox Dark		,		(MLRA 1	•	
5 cm Mucky Mineral (A Muck Presence (A8) (L		Depleted Dai					it Material (TF2) ow Dark Surface (TF12)	
1 cm Muck (A9) (LRR I		Marl (F10) (L		-0)			ow Dark Surface (1712)	
Depleted Below Dark S		Depleted Oct	•	(MLRA 1	51)	<u> </u>	nam m remaine)	
Thick Dark Surface (A1		Iron-Mangan	ese Mass	ses (F12) (LRR O, P,	T) ³ Indicator	s of hydrophytic vegetation and	
Coast Prairie Redox (A		_			', U)		I hydrology must be present,	
Sandy Mucky Mineral (Delta Ochric			OA 450D)		disturbed or problematic.	
Sandy Gleyed Matrix (S	54)	Reduced Ver						
Stripped Matrix (S6)						RA 149A, 153C, 15	3D)	
Dark Surface (S7) (LRI	R P, S, T, U)	_	J	, (- / (, , , , ,	,	
Restrictive Layer (if obser	ved):							
Туре:		<u></u>						
Depth (inches):						Hydric Soil Pre	sent? Yes No 🔽	_
Remarks:						•		
Hydric soil not present								

Project/Site: 1461 Edge Lowman		City/0	County: Choctaw		Sampling Date: 2020-03-11
Applicant/Owner: Edge Lowman			<u>,</u>	State: Alabama	Sampling Point: UP2139
Investigator(s): Kyle Price Tyler R	ussell	Section	on, Township, Range: T		
Landform (hillslope, terrace, etc.): Up			relief (concave, convex		Slope (%): 0
Subregion (LRR or MLRA): P 135		Lat: (b)(7)f	Long:		Datum: WGS 84
Soil Map Unit Name: ArF	-	Lut.	Long.	NWI classificat	
Are climatic / hydrologic conditions or	n the site typical for t	this time of year? V	No.		
					resent? Yes <u> </u>
Are Vegetation, Soil,					
Are Vegetation, Soil,				explain any answer	
SUMMARY OF FINDINGS –	Attach site ma	p showing sam	pling point location	ons, transects,	important features, etc.
Hydrophytic Vegetation Present?	Yes	No 🗸	le the Occupied Acce		
Hydric Soil Present?	Yes	No	Is the Sampled Area within a Wetland?	Vos	No✓
Wetland Hydrology Present?	Yes	No <u>′</u>	within a wettand:	165	
Remarks:					
Upland sample point UP2139					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one	e is required; check a	all that apply)		Surface Soil (· · · · · · · · · · · · · · · · · · ·
Surface Water (A1)		tic Fauna (B13)			etated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRF	R U)	☐ Drainage Pat	
Saturation (A3)	Hydro	gen Sulfide Odor (0	C1)	Moss Trim Lin	nes (B16)
Water Marks (B1)			long Living Roots (C3)	Dry-Season V	Vater Table (C2)
Sediment Deposits (B2)		ence of Reduced Iro	, ,	Crayfish Burn	
Drift Deposits (B3)		nt Iron Reduction in	Tilled Soils (C6)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		Muck Surface (C7) (Explain in Remark	·c)	Geomorphic I Shallow Aquit	
Inundation Visible on Aerial Ima		(Explain in Nemark	.5)	FAC-Neutral	, ,
☐ Water-Stained Leaves (B9)	290.7 (2.7				oss (D8) (LRR T, U)
Field Observations:					· , , , ,
Surface Water Present? Yes	s No 🔽 🏻	Depth (inches):			
	s No 🔽 🏻				
Saturation Present? Yes	No 🔽 🛚	Depth (inches):	Wetland	Hydrology Presen	t? Yes No <u> </u>
(includes capillary fringe) Describe Recorded Data (stream ga	auge, monitoring wel	II, aerial photos, pre	vious inspections), if av	ailable:	
			. ,		
Remarks:					
hydrology not present					

EGETATION (Four Strata) – Use scientific na	arries or pr	ants.		Sampling Point: <u>UP2139</u>
30 ft r	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
Liriodendron tulipifera	_ 15		FACU	That Are OBL, FACW, or FAC: 3 (A)
Pinus taeda	10		FAC	Total Number of Dominant
Quercus alba	10		FACU	Species Across All Strata: 7 (B)
Quercus falcata	10		FACU	Percent of Dominant Species
. Pinus glabra	5		FACW	That Are OBL, FACW, or FAC: 43 (A/B
i	0			
,	0			Prevalence Index worksheet:
l	0			Total % Cover of: Multiply by:
	50%	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 25	20% of	total cover	10	FACW species $\frac{5}{25}$ $\times 2 = \frac{10}{105}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 35 $\times 3 = 105$
llex opaca	10	✓	FAC	FACU species <u>50</u> x 4 = <u>200</u>
Liquidambar styraciflua	10		FAC	UPL species $0 \times 5 = 0$
Ostrya virginiana	10		FACU	Column Totals: 90 (A) 315 (B)
Pinus taeda	5		FAC	2.5
Quercus alba	5		FACU	Prevalence Index = $B/A = 3.5$
•	- 0			Hydrophytic Vegetation Indicators:
)	- 0			1 - Rapid Test for Hydrophytic Vegetation
	0			2 - Dominance Test is >50%
3	- <u> </u>			3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
·	20% of	total cover	8	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
l	0			more in diameter at breast height (DBH), regardless of
5.	0			height.
5.	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3	0			
).).	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	0			
0	- 0			Woody vine – All woody vines greater than 3.28 ft in
11	- 0			height.
2	- 			
		Total Cov		
50% of total cover:	20% of	total cover		
Voody Vine Stratum (Plot size: 30 ft r)				
·	0			
2.	0			
3	0			
l	0			
5.	0			Hydrophytic
).		Total Cov	er	Vegetation
J				Duscanto Vas Na V
50% of total cover:	20% of	total cover		Present? Yes No

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	Texture	Remar	ks
0-2	5YR 3/1	100					Loam		
2 - 20	5Y 3/3	100					Clay		
_									
	-								
-									
¹Type: C=Co	oncentration, D=De	nletion RM=R	educed Matrix MS	S=Masked	d Sand Gr	ains	² Location: Pl	L=Pore Lining, M=N	Matrix
	Indicators: (Appli					anio.		or Problematic Hyd	
☐ Histosol			Polyvalue Be		•	.RR S. T. I		ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su		. , .		· —	ck (A10) (LRR S)	
Black Hi			Loamy Mucky						de MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		Piedmont	t Floodplain Soils (F	19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat	trix (F3)			<u></u> Anomalo	us Bright Loamy So	oils (F20)
	Bodies (A6) (LRR		Redox Dark S	,	,		☐ (MLRA	,	
	ıcky Mineral (A7) (L		Depleted Dar					ent Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			illow Dark Surface ((TF12)
	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Och	•	/MI DA 1	E4\	Uther (Ex	xplain in Remarks)	
· = ·	ark Surface (A12)	CE (ATT)	Iron-Mangan	. ,	•	•	T) ³ Indicate	ors of hydrophytic v	regetation and
ı ==	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa					nd hydrology must b	•
	fucky Mineral (S1)		Delta Ochric			, -,		s disturbed or proble	•
	Gleyed Matrix (S4)		Reduced Ver			50A, 150B))	•	
☐ Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	49A)		
_	Matrix (S6)		Anomalous B	right Loai	my Soils (F20) (MLF	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P,						_		
	Layer (if observed):							
Type:									
Depth (inc	ches):		_				Hydric Soil Pr	resent? Yes	No <u> </u>
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman		City/C	County: Choctaw		Sampling Date: 2020-04-13
Applicant/Owner: Edge Lowman					Sampling Point: UP2140
Investigator(s): Kyle Price Tyler Ru	n, Township, Range: T				
Landform (hillslope, terrace, etc.): Upl			relief (concave, convex,		Slope (%): 0
Subregion (LRR or MLRA): P 135	Lat	(1.)(=)(Long:	(b)(7)f	Datum: WGS 84
Soil Map Unit Name: ArF	Lai		Long.	NWI classifica	NI/A
Are climatic / hydrologic conditions on	the site typical for this	time of year? Ye	es No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, o		-			resent? YesNo
Are Vegetation, Soil, o				explain any answer	
SUMMARY OF FINDINGS - A					
	<u> </u>				,
Hydrophytic Vegetation Present?	Yes No		Is the Sampled Area		
Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No		within a Wetland?	Yes	No
Remarks:	16510				
Upland sample point UP2140					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one	is required: check all th	at apply)		Surface Soil	
Surface Water (A1)		auna (B13)			etated Concave Surface (B8)
High Water Table (A2)		osits (B15) (LRR	P 11/	Drainage Pat	
Saturation (A3)		Sulfide Odor (C		Moss Trim Li	
Water Marks (B1)		•	ong Living Roots (C3)	$\overline{}$	Water Table (C2)
Sediment Deposits (B2)		of Reduced Iror		Crayfish Burn	
Drift Deposits (B3)		on Reduction in	, ,	_ `	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		k Surface (C7)	Timod come (GG)	Geomorphic	
Iron Deposits (B5)		plain in Remark	s)	Shallow Aqui	` '
Inundation Visible on Aerial Imag		.p.a	- ,	FAC-Neutral	
Water-Stained Leaves (B9)	5) (-·)			=	ioss (D8) (LRR T, U)
Field Observations:					
Surface Water Present? Yes	No 🖍 Dept	th (inches):			
Water Table Present? Yes	No 🖍 Dept	th (inches):			
Saturation Present? Yes	No 🗸 Dept	th (inches):	Wetland I	Hydrology Presen	t? Yes No
(includes capillary fringe)				-:Inhia	
Describe Recorded Data (stream gain	uge, monitoring well, as	eriai priotos, prev	vious inspections), if ava	aliable:	
Remarks:					
Hydrology not present					

	ames of pl	arito.		Sampling Point: UP2140
20 4 -	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
Liriodendron tulipifera	15		FACU	That Are OBL, FACW, or FAC: 3 (A)
Pinus taeda	10		FAC	Total Number of Dominant
3. Quercus alba	10		FACU	Species Across All Strata: 7 (B)
4. Quercus falcata	10		FACU	Percent of Dominant Species
_{5.} Pinus glabra	5		FACW	That Are OBL, FACW, or FAC: 43 (A/B)
6	0			,
7	0			Prevalence Index worksheet:
3.	0			Total % Cover of: Multiply by:
	50%	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: <u>25</u>	20% of			FACW species <u>5</u> x 2 = <u>10</u>
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /0 01	total cover.		FAC species $\underline{35}$ $\times 3 = \underline{105}$
1. Ilex opaca	10	/	FAC	FACU species <u>50</u> x 4 = <u>200</u>
Liquidambar styraciflua	10		FAC	UPL species $0 \times 5 = 0$
3. Ostrya virginiana	10		FACU	Column Totals: 90 (A) 315 (B)
4. Pinus taeda	5		FAC	
5. Quercus alba	5		FACU	Prevalence Index = $B/A = 3.5$
**- <u></u>	0		1700	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
B	0			3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:	8	
Herb Stratum (Plot size:30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3	0			Tree Meady plants avaluation vines 2 in (7.0 and) on
4	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5	0			height.
3	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3	0			
	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 3.20 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	- 			
		Total Cov		
50% of total cover:	20% of	total cover:		
	•			
Noody Vine Stratum (Plot size: 30 ft r)	0			
Noody Vine Stratum (Plot size: 30 ft r)	0			
Woody Vine Stratum (Plot size: 30 ft r) 1 2 3	0 0			
Noody Vine Stratum (Plot size: 30 ft r) 1 2	0 0 0			
Noody Vine Stratum (Plot size: 30 ft r)	0 0			Hydrophytic
Woody Vine Stratum (Plot size: 30 ft r) 1 2	0 0 0 0	Total Cov	er	Hydrophytic Vegetation
Noody Vine Stratum (Plot size: 30 ft r)	0 0 0 0			

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	indicator	or confirn	n the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	Texture	Remar	ks
0-2	5YR 3/1	100					Loam		
2 - 20	5Y 3/3	100					Clay		
_									
	-								
-									
¹Type: C=Co	oncentration, D=De	nletion RM=R	educed Matrix MS	S=Masked	d Sand Gr	ains	² Location: Pl	L=Pore Lining, M=N	Matrix
	Indicators: (Appli					anio.		or Problematic Hyd	
☐ Histosol			Polyvalue Be		•	.RR S. T. I		ck (A9) (LRR O)	
	oipedon (A2)		Thin Dark Su		. , .		· —	ck (A10) (LRR S)	
Black Hi			Loamy Mucky						de MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	d Matrix ((F2)		Piedmont	t Floodplain Soils (F	19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat	trix (F3)			<u></u> Anomalo	us Bright Loamy So	oils (F20)
	Bodies (A6) (LRR		Redox Dark S	,	,		☐ (MLRA	,	
	ıcky Mineral (A7) (L		Depleted Dar					ent Material (TF2)	
	esence (A8) (LRR		Redox Depre		8)			illow Dark Surface ((TF12)
	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Och	•	/MI DA 1	E4\	Uther (Ex	xplain in Remarks)	
· = ·	ark Surface (A12)	CE (ATT)	Iron-Mangan	. ,	•	•	T) ³ Indicate	ors of hydrophytic v	regetation and
ı ==	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa					nd hydrology must b	•
	fucky Mineral (S1)		Delta Ochric			, -,		s disturbed or proble	•
	Gleyed Matrix (S4)		Reduced Ver			50A, 150B))	•	
☐ Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	49A)		
_	Matrix (S6)		Anomalous B	right Loai	my Soils (F20) (MLF	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P,						_		
	Layer (if observed):							
Type:									
Depth (inc	ches):		_				Hydric Soil Pr	resent? Yes	No <u> </u>
Remarks:									
Hydric soil no	ot present								

Project/Site: 1461 edge lowman	City/County: Choc	taw	Sampling Date: 2020-03-12
Applicant/Owner: Edge lowman			Sampling Point: UP2141/UP2142/UP2143
Investigator(s): Kyle price Tyler Russell	Section, Township,		
Landform (hillslope, terrace, etc.): Depression		ve, convex, none): Concave	Slone (%): 3
Subregion (LRR or MLRA): P 135 Lat:	(b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: IZA	(2)(1).	NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time	of year? Vee		
Are Vegetation, Soil, or Hydrology significant size in the size typical for this time.		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology natura		If needed, explain any answer	·
SUMMARY OF FINDINGS – Attach site map sho	wing sampling poir	nt locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No	V lo the Samu	alod Aron	
Hydric Soil Present? Yes No	Is the Samp		No
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	<u>v</u>		
Remarks:			
Upland sample point UP2141/UP2142/ UP2143			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	ylqqı)	Surface Soil	
Surface Water (A1) Aquatic Faun			getated Concave Surface (B8)
	s (B15) (LRR U)	☐ Drainage Pat	
Saturation (A3) Hydrogen Su	ılfide Odor (C1)	Moss Trim Li	nes (B16)
☐ Water Marks (B1) ☐ Oxidized Rhi:	zospheres along Living R	oots (C3) 🔲 Dry-Season \	Water Table (C2)
 	Reduced Iron (C4)	☐ Crayfish Burr	
	Reduction in Tilled Soils (0	_	sible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck St ☐ Iron Deposits (B5) ☐ Other (Explain	urface (С7) in in Remarks)	☐ Geomorphic☐ Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)	II III Neillaiks)	FAC-Neutral	
Water-Stained Leaves (B9)			noss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (ii	nches):		
Water Table Present? Yes No Depth (ii	·		
Saturation Present? Yes No Depth (in	nches):	Wetland Hydrology Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspect	ions), if available:	
Remarks:			

Tree Stratum (Plot size: 30 ft r) % C 1. Liquidambar styraciflua 20 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0 8. 0 20% 50% of total cover: 10 20% Sapling/Shrub Stratum (Plot size: 30 ft r))	<u>cover</u> .	Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)
1. Liquidambar styraciflua 20 2. 0 3. 0 4. 0 5. 0 6. 0 7. 0 8. 0 20% 50% of total cover: 10 20% Sapling/Shrub Stratum (Plot size: 30 ft r		Species?		That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species
2				Total Number of Dominant Species Across All Strata: Percent of Dominant Species (N) (B)
3.				Species Across All Strata: 4 (B) Percent of Dominant Species
4. 0 5. 0 6. 0 7. 0 8. 0 50% of total cover: 10 20% Sapling/Shrub Stratum (Plot size: 30 ft r)				Percent of Dominant Species
5. 0 6. 0 7. 0 8. 0 20% 50% of total cover: 10 208 Sapling/Shrub Stratum (Plot size: 30 ft r)				
6				That Are OBL, FACW, or FAC: 25 (A/B)
7. 0 8. 0 50% of total cover: 10 Sapling/Shrub Stratum (Plot size: 30 ft r)				
8				Prevalence Index worksheet:
50% of total cover: 10 20% Sapling/Shrub Stratum (Plot size: 30 ft r)				Total % Cover of: Multiply by:
50% of total cover: 10 20 Sapling/Shrub Stratum (Plot size: 30 ft r)		T-4-1 0		OBL species $0 x 1 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)		Total Cov		FACW species $0 x 2 = 0$
Sapiling/Stirub Stratum (Plot Size. Other	U% OF E	otal cover:		FAC species 20 x 3 = 60
1 Rosa multiflora 15		~	FACU	FACU species 80 x 4 = 320
				UPL species $0 \times 5 = 0$
2				Column Totals: 100 (A) 380 (B)
J				
4				Prevalence Index = $B/A = \frac{3.8}{}$
J				Hydrophytic Vegetation Indicators:
·				1 - Rapid Test for Hydrophytic Vegetation
1				2 - Dominance Test is >50%
8 <u>U</u> 15%	<u> </u>	T-4-1 0		3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
	U% OT t	otal cover:		
Herb Stratum (Plot size: 30 ft r) 1. Bouteloua dactyloides 30		~	FACU	¹ Indicators of hydric soil and wetland hydrology must
1. Double of data various 2. Trifolium pratense 15			FACU	be present, unless disturbed or problematic.
3 Allium cernuum 10			FACU	Definitions of Four Vegetation Strata:
Hieracium greenii 10			FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4			1700	more in diameter at breast height (DBH), regardless of height.
o				
0				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1				than 3 m. DBH and greater than 3.20 ft (1 m) tail.
0				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				Woody vine – All woody vines greater than 3.28 ft in
· · · · · · · · · · · · · · · · · · ·				height.
12 <u>0</u> 65%	<u> </u>	T-4-1 0		
		Total Cov		
	U% OT t	otal cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				
4				
5.		T-4-! 0		Hydrophytic Vegetation
	_		⊢ 1	r vogetation
50% of total cover: 20		Total Cov		Present? Yes No

SOIL Sampling Point: UP2141/UP2142/UP214:

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 20	2.5YR 3/8	100					Sandy clay		
									•
	-								
-									
				_					
l — -									
-									
1 _{T.} ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Dadwaad Matrix N	IC-Maaka	- C C-		21	-Dana Lining M-Mat	min a
	oncentration, D=De Indicators: (Appli					ains.		=Pore Lining, M=Mat	
l <u> </u>		Cable to all L			•				; 3011S :
Histosol			Polyvalue B					k (A9) (LRR O)	
	pipedon (A2)		Thin Dark S					k (A10) (LRR S)	
ı ≔	istic (A3)		Loamy Muc	-		R O)		Vertic (F18) (outside	
	en Sulfide (A4)		Loamy Gley		(F2)			Floodplain Soils (F19	
	d Layers (A5)		Depleted Ma					is Bright Loamy Soils	(F20)
_	Bodies (A6) (LRR		Redox Dark				☐ (MLRA		
	ucky Mineral (A7) (L		Depleted Da					nt Material (TF2)	
	resence (A8) (LRR		Redox Depr	•	⁻ 8)			low Dark Surface (TF	12)
_	uck (A9) (LRR P, T)			•			U Other (Ex	plain in Remarks)	
	d Below Dark Surfa	ce (A11)	Depleted O				2		
	ark Surface (A12)		Iron-Manga		, ,			ors of hydrophytic veg	
	rairie Redox (A16)					', U)		d hydrology must be	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochrid					disturbed or problem	atic.
	Bleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI						
	l Matrix (S6)		Anomalous	Bright Loa	my Soils (F20) (MLF	RA 149A, 153C, 15	53D)	
	rface (S7) (LRR P,								
Restrictive	Layer (if observed):							
Type:									
Depth (in	ches):		<u></u>				Hydric Soil Pre	esent? Yes	No 🗸
Remarks:	·								
Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman	City/County: Choctaw	Sampling Date: 2020-03-13
Applicant/Owner: Edge Lowman		Sampling Point: UP2144
Investigator(s): Kyle Price Tyler Russell	Section, Township, Range: Land	
Landform (hillslope, terrace, etc.): Upland, Flat		Slope (%): 0
	(7)f Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BnE2	NWI classificat	<u> </u>
Are climatic / hydrologic conditions on the site typical for this time of ye	<u> </u>	
Are Vegetation, Soil, or Hydrology significantly		
Are Vegetation, Soil, or Hydrology naturally pro-		
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes _ ✔ No		
Hydric Soil Present? Yes No	Is the Sampled Area	No 🗸
Wetland Hydrology Present? Yes No	within a Wetland? Yes	NO
Remarks:		
Upland sample point UP2144		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		· · · · · · · · · · · · · · · · · · ·
Surface Water (A1) Aquatic Fauna (B1		etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15)		
Saturation (A3) Hydrogen Sulfide (
Water Marks (B1) — Oxidized Rhizosph	neres along Living Roots (C3) 🔲 Dry-Season V	Vater Table (C2)
Sediment Deposits (B2)	- -	
	_	sible on Aerial Imagery (C9)
☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface ☐ Iron Deposits (B5) ☐ Other (Explain in F	<u> </u>	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	* *
Water-Stained Leaves (B9)		oss (D8) (LRR T, U)
Field Observations:		, , , , ,
Surface Water Present? Yes No Depth (inches	·):	
Water Table Present? Yes No Depth (inches		
Saturation Present? Yes No Depth (inches	:): Wetland Hydrology Present	? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	l os, previous inspections), if available:	
Remarks: Hydrology not present		
Trydrology flot present		

EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2144
20.4 *	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Ilex opaca	15		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Liquidambar styraciflua	15		FAC	Total Number of Dominant
3. Pinus taeda	10		FAC	Species Across All Strata: 4 (B)
4. Quercus falcata	10		FACU	Percent of Dominant Species
5. Quercus nigra	10		FAC	That Are OBL, FACW, or FAC: 75 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	60% =	= Total Cov	er	OBL species $\frac{0}{0}$ $\times 1 = \frac{0}{0}$
50% of total cover: 30	20% of	total cover:	12	FACW species $\frac{0}{60}$ $\times 2 = \frac{0}{400}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 60 x 3 = 180
1. Carpinus caroliniana	10	✓	FAC	FACU species 20 x 4 = 80
2. Ostrya virginiana	10	<u> </u>	FACU	UPL species <u>0</u> x 5 = <u>0</u>
3.	0			Column Totals: <u>80</u> (A) <u>260</u> (B)
4.	0			December 1 december 2 3
5	0			Prevalence Index = B/A = 3.3
	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	<u> </u>	Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% St. 1 10				Problematic Hydrophytic Vegetation ¹ (Explain)
· · · · · · · · · · · · · · · · · · ·	20% of	total cover:		
Herb Stratum (Plot size: 30ft r)	0			¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12.	0			
	-	= Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)	_			
1	0			
2.	0			
	0			
3	0			
T	0			
5		T-4-1 O		Hydrophytic
500/ of total account				Present? Yes No
		total cover:		
50% of total cover: Remarks: (If observed, list morphological adaptations belo Hydrophytic vegetation present	20% of	Total Cover:		Vegetation

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence o	of indicators.)	
Depth	Matrix			x Feature		. 2			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks	_
0 - 20	10YR 4/3	100					Sand		
-									
	-				-				
·				-					
							<u> </u>		
-									
¹Type: C=Co	oncentration, D=De	pletion. RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.	² Location: F	PL=Pore Lining, M=Ma	trix.
	ndicators: (Appli							or Problematic Hydri	
☐ Histosol	(A1)		☐ Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, U	U) 🛚 1 cm Mu	uck (A9) (LRR O)	
Histic Ep	pipedon (A2)		Thin Dark Su	ırface (S9)	(LRR S,	T, U)	2 cm Mu	uck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRF	R O)	Reduce	d Vertic (F18) (outside	MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			nt Floodplain Soils (F19	
_	l Layers (A5)		Depleted Ma					ous Bright Loamy Soils	(F20)
	Bodies (A6) (LRR I		Redox Dark				,	A 153B)	
_	cky Mineral (A7) (L		Depleted Day					rent Material (TF2) allow Dark Surface (TF	-12)
	esence (A8) (LRR lick (A9) (LRR P, T)		Redox Depre		0)			Explain in Remarks)	-12)
	Below Dark Surfa		Depleted Ocl		(MLRA 1	51)	Other (L	-Apiairi ir Nemarks)	
	ark Surface (A12)	()	☐ Iron-Mangan		•	•	, T) ³ Indica	tors of hydrophytic veg	etation and
	rairie Redox (A16) (MLRA 150A)					•	and hydrology must be	
Sandy M	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		unles	ss disturbed or problem	natic.
_	Sleyed Matrix (S4)		Reduced Ver						
	edox (S5)		Piedmont Flo						
	Matrix (S6)	0 - 10	Anomalous E	Bright Loar	my Soils (F20) (MLF	RA 149A, 153C,	153D)	
	rface (S7) (LRR P, -ayer (if observed						1		
Type:	Layer (II Observed).							
, , —	phoo):		<u> </u>				Hydric Soil F	Present? Yes	No 🗸
	ches):						Hydric 30ii F	rieseiit: res	_ 140
Remarks: Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman	City/County: Ch	ioctaw	Sampling Date: 2020-03-14
Applicant/Owner: Edge Lowman			Sampling Point: UP2145
Investigator(s): Kyle Price Tyler Russell	ip, Range: Land		
Landform (hillslope, terrace, etc.): Upland, Flat		ave, convex, none): <u>none</u>	Slope (%): 0
Subregion (LRR or MLRA): P 135	Lat: (b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BnE2	Lat. (7)	NWI classifica	
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes	No (If no, explain in R	
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology	·	(If needed, explain any answer	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINDINGS – Attach sit	e map snowing sampling po	THE TOCALIONS, TRANSPORTS	, important leatures, etc.
	No Is the Sar	mpled Area	
Hydric Soil Present? Yes	No within a W	•	No
	No		
Remarks: Upland sample point UP2145			
Opiana sample point 0F2145			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil	
Surface Water (A1)	Aquatic Fauna (B13)		jetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pat	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Li	
Water Marks (B1)	Oxidized Rhizospheres along Living	Roots (C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic	` '
☐ Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	,
Water-Stained Leaves (B9)		<u> </u>	noss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes No	V Donth (inches):		
	Depth (inches): Depth (inches):		
<u> </u>	Depth (inches):	Wetland Hydrology Presen	t? Yes No ✔
(includes capillary fringe)			tr res No
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspe	ctions), if available:	
Remarks: Hydrology not present			
, , , , , , , , , , , , , , , , , , , ,			

EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2145
20 # -	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Pinus taeda	30		FAC	That Are OBL, FACW, or FAC: 4 (A)
2. Ilex opaca	15		FAC	Total Number of Dominant
3. Liquidambar styraciflua	15		FAC	Species Across All Strata: 5 (B)
4	0			Dergant of Daminant Charles
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 80 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
o	60%	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 30		total cover:		FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)	20 /0 01	total cover.	·	FAC species 70 x 3 = 210
1 Carpinus caroliniana	10	~	FAC	FACU species 10 x 4 = 40
2. Ostrya virginiana	10		FACU	UPL species $0 \times 5 = 0$
	0		17100	Column Totals: 80 (A) 250 (B)
3	- —			(1)(2)
4	0			Prevalence Index = $B/A = \frac{3.1}{}$
5	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	20% :	= Total Cov	er	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 10	20% of			1 Toblematic Trydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30 ft r)				The disease of budgie and quadructional budgeton, and
1	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0			Definitions of Four Vegetation Strata:
2	0			Definitions of Four Vegetation Strata.
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of height.
5	0			noight.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	- <u> </u>			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	:	= Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0			
	0			
3	0			
4	0			
5	- 			Hydrophytic
		Total Cov		Vegetation Present? Yes ✓ No ———
50% of total cover:	20% of	total cover	:	163 160
Remarks: (If observed, list morphological adaptations believed by the second se	ow).			

Profile Desc	ription: (Describe	to the depth	n needed to docur	ment the i	indicator	or confirm	m the absence of	indicators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	10YR 4/3	100		_			Sand	
-								
_				_				
				-				
-								
								_
	oncentration, D=De					ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all L			•			r Problematic Hydric Soils³:
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) (I	LRR S, T, I	U) 1 cm Mud	ck (A9) (LRR O)
_	oipedon (A2)		Thin Dark Su					ck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Muck			R O)		Vertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye	ed Matrix ((F2)			t Floodplain Soils (F19) (LRR P, S, T)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)			<u> </u>	us Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	- 6)		(MLRA	
5 cm Μι	ıcky Mineral (A7) (L	.RR P, T, U)	Depleted Da	rk Surface	(F7)		Red Pare	ent Material (TF2)
	esence (A8) (LRR		Redox Depre	essions (F	8)			llow Dark Surface (TF12)
1 cm Μι	ıck (A9) (LRR P, T)		Marl (F10) (L	.RR U)			U Other (Ex	cplain in Remarks)
Depleted	d Below Dark Surfa	ce (A11)	Depleted Oc	hric (F11)	(MLRA 1	51)		
	ark Surface (A12)		Iron-Mangan	ese Mass	es (F12)	LRR O, P	, T) ³ Indicato	ors of hydrophytic vegetation and
Coast P	rairie Redox (A16) ((MLRA 150A)				', U)	wetlan	nd hydrology must be present,
Sandy N	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	-RA 151)		unless	s disturbed or problematic.
Sandy G	Gleyed Matrix (S4)		Reduced Ve	rtic (F18) ((MLRA 1	50A, 150B))	
Sandy F	Redox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14	49A)	
☐ Stripped	Matrix (S6)		Anomalous E	Bright Loai	my Soils (F20) (MLF	RA 149A, 153C, 1	53D)
	rface (S7) (LRR P,							
Restrictive	Layer (if observed):						
Type:								
Depth (in	ches):						Hydric Soil Pr	resent? Yes No
Remarks:								
Hydric soil no	ot present							

Project/Site: 1461 Lowman_1	Citv/C	ounty: Needham/Choo	ctaw	Sampling Date: 2020-03-14
Applicant/Owner: NextEra				Sampling Point: UP2146
Investigator(s): Tyler Russell	Sectio	on, Township, Range:		
Landform (hillslope, terrace, etc.): Upland, Flat		·		Slope (%): 1
Subregion (LRR or MLRA): P				Datum: WGS 84
Soil Map Unit Name: MdA		Long	NWI classifica	
Are climatic / hydrologic conditions on the site typic	al for this time of year? V	oo V No		
Are Vegetation, Soil, or Hydrology _				
Are Vegetation, Soil, or Hydrology _			explain any answe	
SUMMARY OF FINDINGS – Attach site	e map showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Sampled Area		
Hydric Soil Present? Yes	No 🗸	within a Wetland?	Vos	No ✓
Wetland Hydrology Present? Yes	No	Within a Wottana.		
Remarks:				
Upland sample for wetland W2119 and W2120				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; cl	neck all that apply)		Surface Soil	
	Aquatic Fauna (B13)			getated Concave Surface (B8)
1 	Marl Deposits (B15) (LRR	R U)	☐ Drainage Pat	
Saturation (A3)	Hydrogen Sulfide Odor (C	C1)	Moss Trim Li	nes (B16)
Water Marks (B1)	Oxidized Rhizospheres al	long Living Roots (C3)	Dry-Season	Water Table (C2)
 	Presence of Reduced Iron	' '	Crayfish Buri	
	Recent Iron Reduction in	Tilled Soils (C6)		sible on Aerial Imagery (C9)
	Thin Muck Surface (C7) Other (Explain in Remark	6)	Geomorphic Shallow Aqui	Position (D2)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remark	5)	FAC-Neutral	
Water-Stained Leaves (B9)				noss (D8) (LRR T, U)
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No	Pepth (inches):	Wetland H	lydrology Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring)	ng well, aerial photos, prev	 vious inspections), if ava	iilable:	
Remarks:				
No hydrology present				

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: UP2146

70 4 30 ft r			t Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r)	% Cover 0	Species'	? Status	Number of Dominant Species That Are OBL. FACW. or FAC:	(A)
1	<u> </u>			That Are OBL, FACW, or FAC:	(A)
2.	0			Total Number of Dominant	
3	0	-		Species Across All Strata: 2	(B)
4	0	-		Percent of Dominant Species	
5	0			That Are OBL, FACW, or FAC: 0	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8	0		- ——	OBL species 0 $x 1 = 0$	-
	=	= Total Co	over	FACW species $0 \times 2 = 0$	•
50% of total cover:	20% of	total cove	r:	FAC species $\frac{1}{2}$ $$	•
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACU species 80 x 4 = 320	•
1	0				•
2	0			01 L species x 3 =	. (5)
3	0			Column Totals: 80 (A) 320	(B)
4	0			Prevalence Index = B/A = 4	
5	0			Hydrophytic Vegetation Indicators:	_
6	0			1 - Rapid Test for Hydrophytic Vegetation	
7.	0			2 - Dominance Test is >50%	
8.	0			3 - Prevalence Index is ≤3.0 ¹	
		= Total Co	ver	Problematic Hydrophytic Vegetation¹ (Explain	
50% of total cover:				Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 5)				1 adicates of budgie and suddend budge laws as	4
1. Trifolium dubium	45	~	FACU	¹ Indicators of hydric soil and wetland hydrology me be present, unless disturbed or problematic.	ust
2. Trifolium pratense	30	~	FACU	Definitions of Four Vegetation Strata:	
3. Taraxacum officinale	5	-	FACU		
	0		·	Tree – Woody plants, excluding vines, 3 in. (7.6 cl	
4	0			more in diameter at breast height (DBH), regardle height.	SS 01
5	0				
6	0			Sapling/Shrub – Woody plants, excluding vines, I than 3 in. DBH and greater than 3.28 ft (1 m) tall.	less
7	0				
8	0			Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	lless
9	0			of size, and woody plants less than 5.26 it tall.	
10	0	-		Woody vine – All woody vines greater than 3.28 f	t in
11	0	-		height.	
12					
40		= Total Co			
50% of total cover: 40	20% of	total cove	r: 16		
Woody Vine Stratum (Plot size: 30 ft r)	0				
1	$-\frac{0}{0}$				
2			- ——		
3	0				
4	0				
5	0			Hydrophytic	
		= Total Co	over	Vegetation	
50% of total cover:	20% of	total cove	r:	Present? Yes No	
Remarks: (If observed, list morphological adaptations bel	ow).			1	
No hydrophytic vegetation present					

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	indicator	or confirm	the absence of ir	ndicators.)
Depth	Matrix			x Feature		- 2	_	
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	10YR 4/4	100					Loam	
					· <u></u>			
-								
	-			· ——	· ——			
					· <u></u>			
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	² Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	ndicators: (Appli	cable to all Li	RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histosol			Polyvalue Be				. —	(A9) (LRR O)
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)
Black Hi			Loamy Mucky			R O)		/ertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		(F2)			Floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20)
	Bodies (A6) (LRR I) T III	Redox Dark		-6)		(MLRA 1	• • • • • •
	cky Mineral (A7) (L		Depleted Dar	,	,		1 1 '	t Material (TF2)
=	esence (A8) (LRR I		Redox Depre					ow Dark Surface (TF12)
1 cm Mu	ck (A9) (LRR P, T)	,	Marl (F10) (L	RR U)	,		Other (Exp	lain in Remarks)
	Below Dark Surfac	ce (A11)	Depleted Och					
_	ark Surface (A12)		Iron-Mangan					s of hydrophytic vegetation and
	rairie Redox (A16) (_			, U)		hydrology must be present,
_	lucky Mineral (S1) (leyed Matrix (S4)	LKK (), (3)	Delta Ochric Reduced Ver			ΩΔ 150R)		disturbed or problematic.
_	edox (S5)		Piedmont Flo					
	Matrix (S6)						A 149A, 153C, 153	3D)
	face (S7) (LRR P,	S, T, U)	_	-		, ,		·
Restrictive I	ayer (if observed)):						
Type:								
	ches):		<u></u>				Hydric Soil Pres	sent? Yes No
Remarks: No hydric soi	Inrecent							
No flyulic Soi	i present							

Project/Site: 1461 Edge Lowman		City/	County: Washington		Sampling Date: 2020-03-14	
Applicant/Owner: Edge Lowman					Sampling Point: UP2147	
Investigator(s): Kyle Price Tyler Russell Section, Township, Range: Frankville						
Landform (hillslope, terrace, etc.): U					Slope (%): 0	
Subregion (LRR or MLRA): P 135				(b)(7)f	Datum: WGS 84	
Soil Map Unit Name: ByB		Lat. (3)(1).	Long.		tion:	
Are climatic / hydrologic conditions of	on the site typical for the	nis time of year? V	es No	(If no, explain in R		
Are Vegetation, Soil,		-				
Are Vegetation, Soil,						
_				explain any answe		
SUMMARY OF FINDINGS –	Attach site map	snowing sam	ipling point locati	ons, transects	, important features, etc.	
Hydrophytic Vegetation Present?	Yes	No <u>′</u>	Is the Sampled Area			
Hydric Soil Present?	Yes	No	within a Wetland?	Yes	No 🗸	
Wetland Hydrology Present?	Yes	No				
Remarks:						
Upland sample point UP2147						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one	e is required: check al	I that apply)		Surface Soil		
Surface Water (A1)		c Fauna (B13)			jetated Concave Surface (B8)	
High Water Table (A2)		eposits (B15) (LRF	₹ U)	Drainage Pat		
Saturation (A3)		gen Sulfide Odor (0		Moss Trim Li		
Water Marks (B1)	Oxidiz	ed Rhizospheres a	long Living Roots (C3)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Preser	nce of Reduced Iro	n (C4)	Crayfish Burr	rows (C8)	
Drift Deposits (B3)	Recen	t Iron Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		luck Surface (C7)		Geomorphic	` '	
Iron Deposits (B5)	· 	(Explain in Remark	(S)	Shallow Aqui		
Inundation Visible on Aerial Im	agery (B7)			FAC-Neutral	,	
Water-Stained Leaves (B9) Field Observations:				Spnagnum m	noss (D8) (LRR T, U)	
	s No 🖍 D	enth (inches):				
	s No_ <u>'</u> D					
	s No_ <u>'</u> D			Hydrology Presen	t? Yes No ✓	
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring well	, aerial photos, pre	vious inspections), if av	ailable:		
Remarks:						
hydrology not present						

EGETATION (Four Strata) – Use scientific na	ames of pl	ants.		Sampling Point: UP2147
20.4.	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
Liriodendron tulipifera	_ 15		FACU	That Are OBL, FACW, or FAC: 3 (A)
Pinus taeda	_ 10		FAC	Total Number of Dominant
3. Quercus alba	_ 10		FACU	Species Across All Strata: 7 (B)
4. Quercus falcata	10		FACU	Percent of Dominant Species
5. Pinus glabra	5		FACW	That Are OBL, FACW, or FAC: 43 (A/B)
5	0			
7	0			Prevalence Index worksheet:
3	0			Total % Cover of: Multiply by:
	50% :	= Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 25	20% of	total cover	10	FACW species $\frac{5}{25}$ $\times 2 = \frac{10}{105}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{35}{200}$ x 3 = $\frac{105}{200}$
l llex opaca	10	✓	FAC	FACU species 50 $x 4 = 200$
Liquidambar styraciflua	10		FAC	UPL species $0 \times 5 = 0$
3. Ostrya virginiana	10		FACU	Column Totals: <u>90</u> (A) <u>315</u> (B)
Pinus taeda	5		FAC	
5. Quercus alba	5		FACU	Prevalence Index = $B/A = 3.5$
** -	- 0			Hydrophytic Vegetation Indicators:
5	- 0			1 - Rapid Test for Hydrophytic Vegetation
7	- 0			2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
20		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 20	20% of	total cover	8	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1	_ 0			be present, unless disturbed or problematic.
2	_ 0			Definitions of Four Vegetation Strata:
3	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	0			more in diameter at breast height (DBH), regardless of
5	0			height.
3	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3.	0			Harb All barbassaus (non woods) plants, regardless
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.	0			
11	0			Woody vine – All woody vines greater than 3.28 ft in height.
	0			neight.
12	- 	Total Car		
		Total Cov		
50% of total cover:	20% 01	total cover	· ——	
Noody Vine Stratum (Plot size: 30 ft r)	0			
1	$-\frac{0}{0}$			
2	$-\frac{0}{0}$			
3	- 			
4	$-\frac{0}{2}$			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations be Hydrophytic vegetation not present	low).			

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirn	n the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Remarks	
0-2	5YR 3/1	100					Loam		
2 - 20	5Y 3/3	100					Clay		
-									
-				-	- '				_
					-				
-	-								
	oncentration, D=De					ains.		=Pore Lining, M=Matrix.	:1_3.
l <u> </u>	Indicators: (Appli	cable to all L			•	DD 0 T 1		Problematic Hydric So	iis :
Histosol	(A1) pipedon (A2)		Polyvalue Be		. , .			k (A9) (LRR O) k (A10) (LRR S)	
Black Hi			Loamy Muck					Vertic (F18) (outside ML	RA 150A.B)
_	en Sulfide (A4)		Loamy Gleye	-		-,		Floodplain Soils (F19) (L	
_	d Layers (A5)		Depleted Ma	trix (F3)			L Anomalou	ıs Bright Loamy Soils (F2	0)
= -	Bodies (A6) (LRR		Redox Dark		,		(MLRA	•	
	icky Mineral (A7) (L		Depleted Date					nt Material (TF2) low Dark Surface (TF12)	
	esence (A8) (LRR ick (A9) (LRR P, T)		Redox Depre		8)			plain in Remarks)	
	d Below Dark Surfa		Depleted Oct	•	(MLRA 1	51)	<u> </u>	piani in reomane)	
	ark Surface (A12)		Iron-Mangan	ese Mass	ses (F12) (LRR O, P,	, T) ³ Indicato	rs of hydrophytic vegetati	on and
	rairie Redox (A16)		_			', U)		d hydrology must be pres	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			OA 450D\		disturbed or problematic.	
	Gleyed Matrix (S4) Redox (S5)		Reduced Ver						
	Matrix (S6)						RA 149A, 153C, 15	53D)	
	rface (S7) (LRR P,	S, T, U)	_	J	`	, (,	
Restrictive I	Layer (if observed):							
Type:									
Depth (in	ches):						Hydric Soil Pre	esent? Yes	No
Remarks:	ot procent								
Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman		City/County: Choctaw		Sampling Date: 2020-03-15			
Applicant/Owner: Edge Lowman		State: Alabama Sampline					
Investigator(s): Kyle Price Tyler Russe							
Landform (hillslope, terrace, etc.): Upland		Local relief (concave, convex		Slope (%): 0			
Subregion (LRR or MLRA): P 135		b)(7)f Long:		Datum: WGS 84			
Soil Map Unit Name: ToC2				tion:			
Are climatic / hydrologic conditions on the	site typical for this time of v	ear? Yes V	(If no, explain in Re				
Are Vegetation, Soil, or Hy				resent? YesNo			
Are Vegetation, Soil, or Hy			explain any answer				
SUMMARY OF FINDINGS – Atta				·			
Lludranhutia Vagatatian Dragant?	Vac No V						
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No	Is the Sampled Area					
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes	No			
Remarks:							
Upland sample point UP2148/ UP2149							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)			
Primary Indicators (minimum of one is re-	quired; check all that apply)	_	Surface Soil (Cracks (B6)			
Surface Water (A1)	Aquatic Fauna (B1	13)	Sparsely Veg	etated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B1	5) (LRR U)	Drainage Pat	terns (B10)			
Saturation (A3)	Hydrogen Sulfide	Odor (C1)	Moss Trim Lir	nes (B16)			
☐ Water Marks (B1)	Oxidized Rhizospl	heres along Living Roots (C3)	☐ Dry-Season V	Vater Table (C2)			
Sediment Deposits (B2)	Presence of Redu	ced Iron (C4)	Crayfish Burn	ows (C8)			
Drift Deposits (B3)	Recent Iron Redu	ction in Tilled Soils (C6)	Saturation Vis	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface	e (C7)	Geomorphic I	Position (D2)			
☐ Iron Deposits (B5)	Other (Explain in F	Remarks)	Shallow Aquit	tard (D3)			
☐ Inundation Visible on Aerial Imagery	(B7)		FAC-Neutral	Test (D5)			
☐ Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)			
Field Observations:							
	No V Depth (inches						
1	No V Depth (inches	,					
Saturation Present? Yes (includes capillary fringe)	_ No _ L Depth (inches	s): Wetland	Hydrology Presen	t? Yes No <u>/</u>			
Describe Recorded Data (stream gauge,	monitoring well, aerial phot	tos, previous inspections), if av	ailable:				
Remarks:							
Hydrology not present							

20.4 -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r		Species?	<u>Status</u>	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 2 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 5 (B)
4	0			Percent of Deminant Species
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
6	0			- '
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
		Total Cov	er	OBL species $\frac{0}{2}$ x 1 = $\frac{0}{2}$
50% of total cover:	20% of	total cover:		FACW species 0 x 2 = 0
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species <u>65</u> x 3 = <u>195</u>
1. Pinus taeda	50	~	FAC	FACU species <u>35</u> x 4 = <u>140</u>
	0			UPL species <u>0</u> x 5 = <u>0</u>
2	0			Column Totals: 100 (A) 335 (B)
3	0			
4	0			Prevalence Index = $B/A = \frac{3.4}{}$
5	- 			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0			☐ 3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 25	20% of	total cover:	10	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Andropogon gerardii	15	V	FAC	be present, unless disturbed or problematic.
2. Bouteloua dactyloides	10	<u> </u>	FACU	Definitions of Four Vegetation Strata:
3. Eupatorium capillifolium	10	~	FACU	Trace Manda plants evaluation viscos 2 in (7.0 cm) on
4. Hieracium greenii	10	~	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
Trifolium pratense	5		FACU	height.
6.	0			Conline/Chruh Wandy plants avaluding vines loss
7	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than 5.20 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	0			
0-		Total Cov		
50% of total cover: 25	20% of	total cover	10	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:		total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations below				
Hydrophytic vegetation not present	J V V).			
, d. op. , , a				

Sampling Point: UP2148/UP2149

SOIL Sampling Point: UP2148/UP2149

Profile Description:	(Describe to the dep	th needed to documen	nt the indicator	or confirr	n the absence of indi	cators.)
Depth	Matrix	Redox F	eatures			
<u>(inches)</u> Color	(moist) %	Color (moist) %	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20 10YR 4	1/3 100				Loamy sand	
-						
						<u> </u>
-						
¹ Type: C=Concentrati	on D=Depletion PM	=Reduced Matrix, MS=N	Asked Sand Gr		² Location: PL=Po	re Lining, M=Matrix.
		LRRs, unless otherwis		aiiis.		blematic Hydric Soils ³ :
	s. (Applicable to all		•	DD 0 T		-
Histosol (A1)	(0)	Polyvalue Below				
Histic Epipedon (A	(2)	Thin Dark Surface			2 cm Muck (A	
Black Histic (A3)	/A A)	Loamy Mucky M		(0)		c (F18) (outside MLRA 150A,B)
Hydrogen Sulfide		Loamy Gleyed N				odplain Soils (F19) (LRR P, S, T)
Stratified Layers (Depleted Matrix				ight Loamy Soils (F20)
Organic Bodies (A		Redox Dark Sur			(MLRA 153I	
l ==	ral (A7) (LRR P, T, U				Red Parent M	
Muck Presence (A		Redox Depressi	` '			Dark Surface (TF12)
1 cm Muck (A9) (I		Marl (F10) (LRR	•	F4\	U Other (Explain	in Remarks)
Depleted Below D Thick Dark Surface		Depleted Ochric			T) ³ Indicators of	hydrophytic vegetation and
	,	Iron-Manganese			•	drology must be present,
	ox (A16) (MLRA 150 eral (S1) (LRR O, S)	· —		, 0)	-	urbed or problematic.
Sandy Mucky Min		Delta Ochric (F1		0A 4E0D		dibed of problematic.
Sandy Redox (S5		Reduced Vertic				
Stripped Matrix (S					43A) RA 149A, 153C, 153D)	
Dark Surface (S7)	,	Allomaious Brigi	ill Loailly Solis ((WILE	(A 149A, 155C, 155D)	
Restrictive Layer (if						
	boserveaj.					
Type:						
Depth (inches):					Hydric Soil Preser	t? Yes No
Remarks:						
Hydric soil not present						

Project/Site: 1461 Edge Lowman		City/County: Was	hington	Sampling Date: 2020-03-15
Applicant/Owner: Edge Lowman		_ , ,		Sampling Point: UP2150
Investigator(s): Kyle Price Tyler Russ	ell	Section, Township,		
Landform (hillslope, terrace, etc.): Uplan			e, convex, none): <u>none</u>	Slope (%): 0
Subregion (LRR or MLRA): P 135		(b)(7)f	Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: BaB	Lat.	(-)(-)-		tion:
Are climatic / hydrologic conditions on the	site typical for this time of	f vear? Yes V	(If no, explain in Re	
Are Vegetation, Soil, or H	• .		re "Normal Circumstances" p	
Are Vegetation, Soil, or H		•	f needed, explain any answer	<u> </u>
SUMMARY OF FINDINGS – Att				
SUMMART OF FINDINGS - AU	ach site map showi		it locations, transects	, important leatures, etc.
Hydrophytic Vegetation Present?	Yes No	- Is the Samp	led Area	
Hydric Soil Present?	Yes No	within a We	tland? Yes	No
Wetland Hydrology Present?	Yes No	_		
Remarks:				
Upland sample point UP2150				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is re	equired: check all that app	lv)	Surface Soil	<u> </u>
Surface Water (A1)	Aquatic Fauna (-		etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (E		Drainage Pat	
Saturation (A3)	Hydrogen Sulfid		Moss Trim Li	
Water Marks (B1)	— · ·	spheres along Living Ro	_	Vater Table (C2)
Sediment Deposits (B2)	Presence of Red	duced Iron (C4)	Crayfish Burr	ows (C8)
Drift Deposits (B3)	Recent Iron Rec	duction in Tilled Soils (C	C6) Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surfa	, ,	Geomorphic	Position (D2)
Iron Deposits (B5)	U Other (Explain in	n Remarks)	Shallow Aqui	
Inundation Visible on Aerial Imager	y (B7)		FAC-Neutral	` '
Water-Stained Leaves (B9)			<u>∐</u> Sphagnum m	oss (D8) (LRR T, U)
Field Observations:	No. 4 Donath Cook	\		
	No Depth (inch			
	No V Depth (inch	,	Matle and Headre Leave Duce and	40 Vaa Na V
Saturation Present? Yes (includes capillary fringe)	No <u> </u>	les):	Wetland Hydrology Presen	t? Yes No <u>/</u>
Describe Recorded Data (stream gauge	, monitoring well, aerial ph	otos, previous inspecti	ons), if available:	
Remarks: Hydrology not present				

20.4 -			t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r	% Cover	Species	? Status	Number of Dominant Species
1	0			That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			Dercent of Deminent Species
5	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)
6	0		_	- '
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
		Total Co	over	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species 15 x 3 = 45
	0			FACU species <u>85</u> x 4 = <u>340</u>
1	0		_	UPL species $0 \times 5 = 0$
2	0			Column Totals: 100 (A) 385 (B)
3	0			
4	0			Prevalence Index = B/A = 3.9
5	0		_	Hydrophytic Vegetation Indicators:
6	· ——			1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	0	-		☐ 3 - Prevalence Index is ≤3.0 ¹
	=	Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	45		FACU	be present, unless disturbed or problematic.
2. Eupatorium capillifolium	15		FACU	Definitions of Four Vegetation Strata:
3. Ranunculus fascicularis	15	~	FAC	Trace (Mandy plants avalyding vines 2 in (7.0 am) an
4. Trifolium repens	15	~	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
Nothoscordum bivalve	10		FACU	height.
6.	0			Sanling/Shrub Woody plants evaluding vines loss
7	0	-		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	0			· , ,
8	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			or size, and woody plants less than 5.25 it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12			_	
50	100% =			
50% of total cover: <u>50</u>	20% of	total cove	er: <u>20 </u>	
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	Total Co	over	Vegetation
50% of total cover:	20% of	total cove	er:	Present? Yes No
Remarks: (If observed, list morphological adaptations below				
Hydrophytic vegetation not present	,.			
7				

Sampling Point: UP2150

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of i	ndicators.)	
Depth	Matrix			x Feature:		. 2			
(inches)	Color (moist)	<u> % </u>	Color (moist)	<u>%</u>	_Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 20	10YR 4/3	100					Loamy sand		
-									
	- 						·		
-									
¹Type: C=Co	oncentration, D=De	oletion. RM=R	educed Matrix, MS	S=Masked	Sand Gr	ains.	² Location: PL:	=Pore Lining, M=Matrix.	
	Indicators: (Appli							Problematic Hydric Soi	ls³:
☐ Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, L	J) \square 1 cm Muck	(A9) (LRR O)	
_	oipedon (A2)		Thin Dark Su					(A10) (LRR S)	
Black Hi			Loamy Mucky	y Mineral	(F1) (LRF	R O)	Reduced \	/ertic (F18) (outside MLF	RA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19) (LF	
	d Layers (A5)		Depleted Mat					s Bright Loamy Soils (F20))
	Bodies (A6) (LRR F		Redox Dark S	•	,		(MLRA 1	-	
=	icky Mineral (A7) (L		Depleted Dar					nt Material (TF2)	
_	esence (A8) (LRR U ick (A9) (LRR P, T)	J)	Redox Depre	•	8)			ow Dark Surface (TF12) blain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Och		(MI RA 1	51)	Other (Exp	Jaili III Kelliaiks)	
	ark Surface (A12)	50 (7111)	Iron-Mangan				T) ³ Indicator	rs of hydrophytic vegetation	on and
_	rairie Redox (A16) (MLRA 150A)	=				•	hydrology must be prese	
Sandy M	lucky Mineral (S1)	LRR O, S)	Delta Ochric	(F17) (ML	.RA 151)		unless	disturbed or problematic.	
_	Gleyed Matrix (S4)		Reduced Ver						
	ledox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous B	right Loar	ny Soils (F20) (MLR	RA 149A, 153C, 15	3D)	
	rface (S7) (LRR P,								
	_ayer (if observed)):							
Type:	-L V-						Headala Call Bas		/
	ches):						Hydric Soil Pre	esent? Yes N	lo
Remarks: Hydric soil no	ot present								
,	7. p. 666								

Project/Site: 1461 Edge Lowman	City/County: Washi	ngton	Sampling Date: 2020-03-16
Applicant/Owner: Edge Lowman	_ , ,		Sampling Point: UP2151/UP2152/UP2153/L
Investigator(s): Kyle Price Tyler Russell	Section, Township, Ra		
Landform (hillslope, terrace, etc.): Upland, Flat		convex, none): none	Slope (%): 0
	(b)(7)f		Datum: WGS 84
Soil Map Unit Name: ArF			tion:
Are climatic / hydrologic conditions on the site typical for this time of	Voor2 Voo	(If no, explain in Re	
		"Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology significar	•	•	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally	problematic? (If n	eeded, explain any answer	's in Remarks.)
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point	locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No	la tha Carrenta	-1 A	
Hydric Soil Present? Yes No	Is the Sample		No 🗸
Wetland Hydrology Present? Yes No	within a Wetla	inu? Tes	NO
Remarks:	<u> </u>		
Upland sample point UP2151/ UP5152/UP2153/UP2154/UP1120/U	JP1124		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that app)	v)	Surface Soil (
Surface Water (A1) Aquatic Fauna (-		letated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B		Drainage Pat	
Saturation (A3) Hydrogen Sulfid		Moss Trim Li	
	pheres along Living Roof	_	Water Table (C2)
Sediment Deposits (B2) Presence of Rec		Crayfish Burr	
 	luction in Tilled Soils (C6)	- '	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surfa		Geomorphic	
Iron Deposits (B5) Other (Explain in	, ,	Shallow Aqui	` '
Inundation Visible on Aerial Imagery (B7)	,	FAC-Neutral	
Water-Stained Leaves (B9)		Sphagnum m	loss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No Depth (inch	es):		
Water Table Present? Yes No Depth (inch	es):		
Saturation Present? Yes No _ V Depth (inch	es): W	etland Hydrology Presen	t? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspection	s), if available:	
Remarks:			
Hydrology not present			

20.4 -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)		Species?		Number of Dominant Species
1. Liquidambar styraciflua	15		FAC	That Are OBL, FACW, or FAC: 6 (A)
2. Carpinus caroliniana	10		FAC	Total Number of Dominant
3. Pinus taeda	10		FAC	Species Across All Strata: 8 (B)
4. Magnolia grandiflora	5		FAC	Percent of Dominant Species
5. Ostrya virginiana	5		FACU	That Are OBL, FACW, or FAC: 75 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	45% =	Total Cov	er	OBL species $\frac{0}{2}$ $x = \frac{0}{2}$
50% of total cover: <u>23</u>	20% of	total cover:	9	FACW species $\frac{0}{75}$ x 2 = $\frac{0}{0.05}$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\frac{75}{25}$ $\times 3 = \frac{225}{100}$
1. Liquidambar styraciflua	15	✓	FAC	FACU species $\frac{25}{2}$ $x 4 = \frac{100}{2}$
2. Carpinus caroliniana	10		FAC	UPL species <u>0</u> x 5 = <u>0</u>
3. Cornus florida	10		FACU	Column Totals: <u>100</u> (A) <u>325</u> (B)
4 Ilex opaca	10		FAC	December of Indian
5 Ostrya virginiana	10		FACU	Prevalence Index = $B/A = 3.3$
	0			Hydrophytic Vegetation Indicators:
	0			1 - Rapid Test for Hydrophytic Vegetation
7 8.	0			2 - Dominance Test is >50%
0		Total Cov		3 - Prevalence Index is ≤3.0 ¹
50% - 64-4-1				Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover:		
Herb Stratum (Plot size: 30ft r)	0			¹ Indicators of hydric soil and wetland hydrology must
1	0			be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5	0			height.
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11.	0			height.
12.	0			
		Total Cov	er	
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2.	0			
3.	0			
	0			
4	0			
5	· _	Tatal Cau		Hydrophytic Vegetation
F00/ - 5 t- t-		Total Cov		Present? Yes V No No
50% of total cover:	·	total cover:		
Remarks: (If observed, list morphological adaptations belo	ow).			
Hydrophytic vegetation present				

Sampling Point: UP2151/ UP2152/ UP215:

SOIL Sampling Point: UP2151/UP2152/UP215:

Profile Description:	(Describe to the dep	th needed to documen	nt the indicator	or confirr	n the absence of indi	cators.)
Depth	Matrix	Redox F	eatures			
<u>(inches)</u> Color	(moist) %	Color (moist) %	Type ¹	Loc 2	<u>Texture</u>	Remarks
0 - 20 10YR 4	1/3 100				Loamy sand	
-						
-						
¹ Type: C=Concentrati	on D=Depletion PM	=Reduced Matrix, MS=N	Asked Sand Gr		² Location: PL=Po	re Lining, M=Matrix.
		LRRs, unless otherwis		aiiis.		blematic Hydric Soils ³ :
	s. (Applicable to all		•	DD 0 T		-
Histosol (A1)	(0)	Polyvalue Below				
Histic Epipedon (A	(2)	Thin Dark Surface			2 cm Muck (A	
Black Histic (A3)	/A A)	Loamy Mucky M		(0)		c (F18) (outside MLRA 150A,B)
Hydrogen Sulfide		Loamy Gleyed N				odplain Soils (F19) (LRR P, S, T)
Stratified Layers (Depleted Matrix				ight Loamy Soils (F20)
Organic Bodies (A		Redox Dark Sur			(MLRA 153I	
l ==	ral (A7) (LRR P, T, U				Red Parent M	
Muck Presence (A		Redox Depressi	` '			Dark Surface (TF12)
1 cm Muck (A9) (I		Marl (F10) (LRR	•	F4\	U Other (Explain	in Remarks)
Depleted Below D Thick Dark Surface		Depleted Ochric			T) ³ Indicators of	hydrophytic vegetation and
	,	Iron-Manganese			•	drology must be present,
	ox (A16) (MLRA 150 eral (S1) (LRR O, S)	· —		, 0)	-	urbed or problematic.
Sandy Mucky Min		Delta Ochric (F1		0A 1E0D		dibed of problematic.
Sandy Redox (S5		Reduced Vertic				
Stripped Matrix (S					43A) RA 149A, 153C, 153D)	
Dark Surface (S7)	,	Allomaious Brigi	ill Loailly Solis ((WILE	(A 149A, 155C, 155D)	
Restrictive Layer (if						
	boserveaj.					
Type:						
Depth (inches):					Hydric Soil Preser	t? Yes No
Remarks:						
Hydric soil not present						

Project/Site: 1461 Edge Lowman	City/County: C	hoctaw	Sampling Date: 2020-03-16
Applicant/Owner: Edge Lowman		Sampling Point: UP2155	
Investigator(s): Kyle Price Tyler Russell	nip, Range: Gilbertown		
Landform (hillslope, terrace, etc.): Upland, Flat		cave, convex, none): <u>none</u>	Slope (%): 0
Subregion (LRR or MLRA): P 135		Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: OKA			tion:
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes	No (If no, explain in R	
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" p	
Are Vegetation, Soil, or Hydrology		(If needed, explain any answer	
SUMMARY OF FINDINGS – Attach site r			
Hadasahada Vasahada Barasada Va	No. 4/	<u> </u>	· ·
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No 🗸	mpled Area	
Wetland Hydrology Present? Yes	No within a	Wetland? Yes	No
Remarks:			
Upland sample point UP2155			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; chec	ck all that apply)	Surface Soil	
	quatic Fauna (B13)		getated Concave Surface (B8)
	arl Deposits (B15) (LRR U)	☐ Drainage Pat	
1 	ydrogen Sulfide Odor (C1)	Moss Trim Li	, ,
	xidized Rhizospheres along Living resence of Reduced Iron (C4)	Crayfish Burr	Water Table (C2)
1 	ecent Iron Reduction in Tilled Soils	-	sible on Aerial Imagery (C9)
	nin Muck Surface (C7)	Geomorphic	
	ther (Explain in Remarks)	Shallow Aqui	, ,
Inundation Visible on Aerial Imagery (B7)	,	FAC-Neutral	
☐ Water-Stained Leaves (B9)		Sphagnum m	noss (D8) (LRR T, U)
Field Observations:			
	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspe	ections), if available:	
Remarks:			
Hydrology not present			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: <u>UP2155</u>

Tree Stratum (Plot size: 30 ft r) % Cover Species 1	vver	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet:
2	ver r: vver r: FACU FAC	Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet:
3.	ver r: vver r: FACU FAC	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet:
4	ver r: vver r: FACU FAC	Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 20 x 3 = 60 FACU species 0 x 4 = 320 UPL species 0 x 5 = 0 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 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
4	ver r: vver r: FACU FAC	That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 20 x 3 = 60 FAC species 80 x 4 = 320 UPL species 0 x 5 = 0 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
5	ver r: vver r: FACU FAC	That Are OBL, FACW, or FAC: 33 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 20 x 3 = 60 FAC species 80 x 4 = 320 UPL species 0 x 5 = 0 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
6	ver r: ver r: FACU FAC	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 $x 1 = 0$ FACW species 0 $x 2 = 0$ FAC species 20 $x 3 = 60$ FACU species 0 $x 4 = 320$ UPL species 0 $x 5 = 0$ Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = $\frac{3.8}{}$ 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
7	ver r: ver r: FACU FAC	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 20 x 3 = 60 FACU species 0 x 4 = 320 UPL species 0 x 5 = 0 Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = $\frac{3.8}{20}$ 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
8	r:	OBL species 0 $x 1 = 0$ FACW species 0 $x 2 = 0$ FAC species 20 $x 3 = 60$ FACU species 0 $x 4 = 320$ UPL species 0 $x 5 = 0$ Column Totals: 100 (A) 380 (B) Prevalence Index $= B/A = 3.8$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation $1 \leq 3.0^1$ Problematic Hydrophytic Vegetation $1 \leq 3.0^1$
= Total Corest	r:	FACW species 0 $x 2 = 0$ FAC species 20 $x 3 = 60$ FACU species 80 $x 4 = 320$ UPL species 0 $x 5 = 0$ Column Totals: 100 $x 5 = 0$ Column Totals: 100 $x 5 = 0$ Prevalence Index $x 6 = 0$ Hydrophytic Vegetation Indicators: $1 6 = 0$ $1 6 = 0$ $1 6 = 0$ $1 6 = 0$ $1 6 = 0$ Problematic Hydrophytic Vegetation $1 6 = 0$ Problematic Hydrophytic Vegetation $1 6 = 0$ Problematic Hydrophytic Vegetation $1 6 = 0$ Indicators of hydric soil and wetland hydrology must
Sapling/Shrub Stratum (Plot size: 30 ft r	r:	FAC species $\frac{20}{80}$ $x 3 = \frac{60}{320}$ UPL species $\frac{0}{0}$ $x 5 = \frac{0}{380}$ (B) Prevalence Index $= B/A = \frac{3.8}{3.8}$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation (Explain)
Sapling/Shrub Stratum (Plot size: 30 ft r) 0 1	ver r:FACU_FAC	FACU species 80
1.	r:FACU_FAC	UPL species 0 $x 5 = 0$ 380 (B) Prevalence Index $= B/A = 3.8$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation (Explain)
2.	r:FACU_FAC	UPL species 0 $x 5 = 0$ 380 (B) Prevalence Index $= B/A = 3.8$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ Problematic Hydrophytic Vegetation (Explain)
3.	r:FACU_FAC	Column Totals: 100 (A) 380 (B) Prevalence Index = B/A = 3.8 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
4.	r:FACU_FAC	Prevalence Index = B/A = 3.8 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
5.	r:FACU_FAC	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
6.	r:FACU_FAC	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
7.	FACU	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
8	FACU	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
8	FACU FAC	3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
50% of total cover:	FACU FAC	Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Herb Stratum (Plot size: 30 ft r r) 1. Bouteloua dactyloides 60 ✓ 2. Ranunculus fascicularis 20 ✓ 3. Trifolium repens 20 ✓ 4. 0 0 5. 0 0 6. 0 0 7. 0 0 8. 0 0 9. 0 0 10. 0 0	FACU FAC	¹ Indicators of hydric soil and wetland hydrology must
Herb Stratum (Plot size: 30 ft r r) 1. Bouteloua dactyloides 60 ✓ 2. Ranunculus fascicularis 20 ✓ 3. Trifolium repens 20 ✓ 4. 0 0 5. 0 0 6. 0 0 7. 0 0 8. 0 0 9. 0 0 10. 0 0	FACU FAC	
1. Bouteloua dactyloides 60 2. Ranunculus fascicularis 20 3. Trifolium repens 20 4. 0 0 5. 0 0 6. 0 0 7. 0 0 8. 0 0 9. 0 0 10. 0 0	FAC	
2. Ranunculus fascicularis 3. Trifolium repens 4. 0 5. 0 6. 0 7. 0 8. 0 9. 0 10. 0 0 10. 0		
3. Trifolium repens 20 0 4. 0 5. 0 6. 0 7. 0 8. 0 9. 0 10. 0 10. 0		Definitions of Four Vegetation Strata:
4. 0 5. 0 6. 0 7. 0 8. 0 9. 0 10. 0		Deminions of Four Vegetation Strata.
5. 0 6. 0 7. 0 8. 0 9. 0		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		more in diameter at breast height (DBH), regardless of height.
7. 0 8. 0 9. 0 10. 0		noight.
8. 0 9. 0 10. 0		Sapling/Shrub – Woody plants, excluding vines, less
9. 0 10. 0		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10. 0		Herb – All herbaceous (non-woody) plants, regardless
10		of size, and woody plants less than 3.28 ft tall.
0		Woody vine – All woody vines greater than 3.28 ft in
11		height.
120		
	ver	
50% of total cover: 50 20% of total cove		
Woody Vine Stratum (Plot size: 30 ft r)		
1		
20	-	
•		
3		
4		
5		Hydrophytic
= Total Co		Vegetation Present? Yes No
50% of total cover: 20% of total cover	r:	riesent: res No
Remarks: (If observed, list morphological adaptations below).		
Hydrophytic vegetation not present		

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			x Feature			_		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks	
0 - 20	10YR 4/3	100					Sandy loam		
-									
·									
¹ Type: C=Co	oncentration, D=De	oletion, RM=R	educed Matrix, MS	S=Masked	I Sand Gr	ains.	² Location: PL	L=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	able to all LI	RRs, unless other	wise not	ed.)		Indicators for	r Problematic Hydric Sc	oils³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, L	ر) <u> </u>	ck (A9) (LRR O)	
	pipedon (A2)		Thin Dark Su					ck (A10) (LRR S)	
Black Hi			Loamy Mucky			R O)		Vertic (F18) (outside ML	
	n Sulfide (A4)		Loamy Gleye		F2)			t Floodplain Soils (F19) (L	
	Layers (A5)		Depleted Mat	. ,	-0)			us Bright Loamy Soils (F2	20)
	Bodies (A6) (LRR Ficky Mineral (A7) (L		Redox Dark S	•	,		(MLRA	nt Material (TF2)	
=	esence (A8) (LRR I		Depleted Dar Redox Depre					llow Dark Surface (TF12)	
_	ick (A9) (LRR P, T)	,	Marl (F10) (L	•	0)			rplain in Remarks)	
	Below Dark Surface	ce (A11)	Depleted Och		(MLRA 1	51)	<u></u> out of (Ex	(piam in reornance)	
	ark Surface (A12)	, ,	Iron-Mangane				T) ³ Indicate	ors of hydrophytic vegetat	tion and
Coast Pi	rairie Redox (A16) (MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	', U)	wetlan	nd hydrology must be pres	sent,
_	lucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or problemation).
_	lleyed Matrix (S4)		Reduced Ver						
	ledox (S5)		Piedmont Flo					\ 	
	Matrix (S6)	C T IIV	Anomalous B	right Loar	my Soils (F20) (MLR	RA 149A, 153C, 1	53D)	
	rface (S7) (LRR P, and a contract of the contr								
Type:	Layer (ii observed)	·							
l	ches):						Hydric Soil Pr	resent? Yes	No 🗸
Remarks:							Tiyane don't i	<u> </u>	
Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman		City/Cou	_{unty:} Choctaw		Sampling Date: 2020-03-17	
Applicant/Owner: Edge Lowman				Sampling Point: UP2156/UP2157		
Investigator(s): Kyle Price Tyler R	ussell	Township, Range: G				
Landform (hillslope, terrace, etc.): Up			ief (concave, convex,		Slope (%): 0	
Subregion (LRR or MLRA): P 135	Lat:		Long:		Datum: WGS 84	
Soil Map Unit Name: IzA			Long.		tion:	
Are climatic / hydrologic conditions or	n the site typical for this t	ime of year? Yes	✓ No			
Are Vegetation, Soil,		-			resent? YesNo	
Are Vegetation, Soil,				explain any answer		
SUMMARY OF FINDINGS -	-			-		
JOINIMART OF FINDINGS -	Attach Site map Si	lowing sampi	ing point locatio	mis, transects	, important reatures, etc.	
Hydrophytic Vegetation Present?	Yes No	ls	the Sampled Area			
Hydric Soil Present?	Yes No	w	ithin a Wetland?	Yes	No <u> </u>	
Wetland Hydrology Present?	Yes No _			,		
Remarks: Upland sample point UP2155						
opiand sample point of 2133						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one	is required: check all the	at apply)		Surface Soil	<u> </u>	
Surface Water (A1)		auna (B13)			etated Concave Surface (B8)	
High Water Table (A2)		osits (B15) (LRR U)	☐ Drainage Pat		
Saturation (A3)	Hydrogen	Sulfide Odor (C1)		Moss Trim Li	nes (B16)	
Water Marks (B1)	Oxidized F	Rhizospheres alon	g Living Roots (C3)	Dry-Season \	Vater Table (C2)	
Sediment Deposits (B2)	Presence	of Reduced Iron (0	C4)	Crayfish Burr	ows (C8)	
Drift Deposits (B3)		n Reduction in Till	led Soils (C6)	Saturation Vis	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Surface (C7)		Geomorphic	` ,	
Iron Deposits (B5)		plain in Remarks)		Shallow Aqui		
Inundation Visible on Aerial Ima Water-Stained Leaves (B9)	agery (B7)			FAC-Neutral	` '	
Field Observations:				<u> </u>	oss (D8) (LRR T, U)	
	No 🔽 Depth	ı (inches):				
	No Depth					
	No Depth			lydrology Presen	t? Yes No ✔	
(includes capillary fringe)						
Describe Recorded Data (stream ga	auge, monitoring well, ae	rial photos, previo	us inspections), if ava	ilable:		
Remarks:						
Hydrology not present						

20.4 -			nt Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r	% Cover	<u>Species</u>	? Status	Number of Dominant Species
1	0	-		That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			Dercent of Deminent Species
5	0	-		Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
		= Total Co	over	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\underline{20}$ $\times 3 = \underline{60}$
	0			FACU species <u>80</u> x 4 = <u>320</u>
1	0			UPL species $0 \times 5 = 0$
2	0	-		Column Totals: 100 (A) 380 (B)
3	0			
4	0			Prevalence Index = $B/A = \frac{3.8}{}$
5	0			Hydrophytic Vegetation Indicators:
6	0	-		1 - Rapid Test for Hydrophytic Vegetation
7	- —			□ 2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	=	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 30ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	60		FACU	be present, unless disturbed or problematic.
2. Ranunculus fascicularis	20		FAC	Definitions of Four Vegetation Strata:
3. Trifolium repens	20		FACU	Tree Woody plants evaluding vince 2 in (7.6 cm) or
4	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0	-		
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	0	-		or orze, and woody planto loss than o.zo it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	. <u> </u>			
50	100% =			
50% of total cover: <u>50</u>	20% of	total cove	er: <u>40</u>	
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	$-\frac{0}{0}$			
2	- 	-		
3	0	-		
4	0			
5	0			Hydrophytic
	=	= Total Co	over	Vegetation
50% of total cover:	20% of	total cove	er:	Present? Yes No
Remarks: (If observed, list morphological adaptations below	ow).			
Hydrophytic vegetation not present	/-			
2. 1 2				

Sampling Point: UP2156/UP2157

SOIL Sampling Point: UP2156/UP2157

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirn	n the absence o	of indicato	ors.)	
Depth	<u>Matrix</u>			x Features		. 2	- .			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>		Remarks	.
0 - 20	10YR 4/3	100					Sandy loam			
-										
	-									
				. ——						
_										
<u> </u>										
	oncentration, D=De					ains.			ining, M=Matr	
Hydric Soil	Indicators: (Appli	cable to all LF	Rs, unless other	wise note	ed.)		Indicators 1	for Proble	matic Hydric	Soils*:
Histosol			Polyvalue Be		. , .		· —	uck (A9) (l	•	
	oipedon (A2)		Thin Dark Su					uck (A10)		
Black Hi			Loamy Mucky			R O)				MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)					(LRR P, S, T)
	d Layers (A5)		Depleted Mat					_	Loamy Soils	(F20)
= -	Bodies (A6) (LRR		Redox Dark	•	•		,	A 153B)	:-L (TEC)	
	icky Mineral (A7) (L		Depleted Dar					rent Mater		10)
	esence (A8) (LRR		Redox Depre		3)			iailow Dari Explain in I	Surface (TF	12)
	ick (A9) (LRR P, T) d Below Dark Surfa		Marl (F10) (L Depleted Och		/MI DA 1	51 \	U Other (i	=хріаін ін і	Remarks)	
· =	ark Surface (A12)	ce (ATT)	Iron-Mangan				T) ³ Indica	ators of hyd	drophytic vege	etation and
. —	rairie Redox (A16)	(MI RA 150A)	Umbric Surfa					-	ogy must be p	
	lucky Mineral (S1)		Delta Ochric			, •,		-	ed or problema	
_	Gleyed Matrix (S4)	(=:::: 0, 0,	Reduced Ver			OA. 150B)		00 0.010.00	. a o. p. oo. o	
_	ledox (S5)		Piedmont Flo							
_	Matrix (S6)						RA 149A, 153C,	153D)		
	rface (S7) (LRR P,	S, T, U)	_	J	,	, ,		,		
	_ayer (if observed									
Type:										
, , <u> </u>	ches):						Hydric Soil I	Present?	Yes	No 🗸
Remarks:							,	10001111		
Hydric soil no	ot present									
	•									

Project/Site: 1461 Edge Lowman		City/County: Choctaw		Sampling Date: 2020-03-17
Applicant/Owner: Edge Lowman				Sampling Point: UP2158/UP2159
Investigator(s): Kyle Price Tyler Russe		Section, Township, Range: G		
Landform (hillslope, terrace, etc.): Upland		_ocal relief (concave, convex,		Slope (%): 0
` ` .)(7)f Long:	(b)(7)f	Datum: WGS 84
Soil Map Unit Name: IZA		Long.	NWI classifica	•
Are climatic / hydrologic conditions on the	site typical for this time of year	ar? Yes No	(If no, explain in R	
Are Vegetation, Soil, or Hy				resent? Yes No
Are Vegetation, Soil, or Hy			explain any answei	
SUMMARY OF FINDINGS - Atta			-	
Llydraphytic Vagatation Procest?	Vac No V			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes No Yes No	Is the Sampled Area		
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes	No
Remarks:				
Upland sample point UP2158/UP2159				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is re	equired; check all that apply)		☐ Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15)	(LRR U)	Drainage Pat	terns (B10)
Saturation (A3)	Hydrogen Sulfide O	dor (C1)	Moss Trim Li	nes (B16)
☐ Water Marks (B1)	Oxidized Rhizosphe	eres along Living Roots (C3)	☐ Dry-Season \	Water Table (C2)
Sediment Deposits (B2)	Presence of Reduce	ed Iron (C4)	Crayfish Burr	ows (C8)
Drift Deposits (B3)	Recent Iron Reducti	on in Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface ((C7)	Geomorphic	Position (D2)
☐ Iron Deposits (B5)	Other (Explain in Re	emarks)	☐ Shallow Aqui	tard (D3)
Inundation Visible on Aerial Imagery	[,] (B7)		FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)
Field Observations:				
	No Depth (inches):			
<u> </u>	No Depth (inches):	·		
Saturation Present? Yes (includes capillary fringe)	No V Depth (inches):	Wetland F	lydrology Presen	t? Yes No <u>/</u>
Describe Recorded Data (stream gauge,	monitoring well, aerial photos	s, previous inspections), if ava	ilable:	
Remarks:				
Hydrology not present				

20.4 -			t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r	% Cover	<u>Species</u>	? Status	Number of Dominant Species
1	0	-		That Are OBL, FACW, or FAC: 1 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			Dercent of Deminent Species
5	0	-		Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
6	0		_	
7	0		_	Prevalence Index worksheet:
8.	0			Total % Cover of: Multiply by:
		= Total Co	over	OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$
50% of total cover:				FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\underline{20}$ $\times 3 = \underline{60}$
	0			FACU species <u>80</u> x 4 = <u>320</u>
1	0		_	UPL species $0 \times 5 = 0$
2	0	-		Column Totals: 100 (A) 380 (B)
3	0		-	
4	0			Prevalence Index = $B/A = \frac{3.8}{}$
5	0			Hydrophytic Vegetation Indicators:
6	0	-		1 - Rapid Test for Hydrophytic Vegetation
7				□ 2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	=	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20% of	total cove	er:	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	60		FACU	be present, unless disturbed or problematic.
2. Ranunculus fascicularis	20		FAC	Definitions of Four Vegetation Strata:
3. Trifolium repens	20		FACU	Tree Woody plants evaluding vines 2 in (7.6 cm) or
4	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0	-		
9.	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	0	-		or orze, and woody planto loss than o.zo it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	- <u> </u>			
50	100% =			
50% of total cover: <u>50</u>	20% of	total cove	er: <u>20 </u>	
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	$-\frac{0}{0}$			
2		-		
3	0	-		
4	0			
5	0			Hydrophytic
	:	= Total Co	over	Vegetation
50% of total cover:	20% of	total cove	er:	Present? Yes No
Remarks: (If observed, list morphological adaptations below	ow).			
Hydrophytic vegetation not present	- ,			
2. 1 2				

Sampling Point: UP2158/UP2159

SOIL Sampling Point: UP2158/UP2159

Profile Description: (Describe to the depth	needed to document the indicator or confirm	the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0 - 20 10YR 4/3 100		Sandy loam
-		
-		
¹ Type: C=Concentration, D=Depletion, RM=F	Peduced Matrix MS=Masked Sand Grains	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils ³ :
1	•	
Histosol (A1)	Polyvalue Below Surface (S8) (LRR S, T, U	
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B)
Black Histic (A3)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
Hydrogen Sulfide (A4) Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Anomalous Bright Loamy Soils (F20)
Organic Bodies (A6) (LRR P, T, U)	Depleted Matrix (F3)	(MLRA 153B)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Redox Dark Surface (F6) 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)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indicators of hydrophytic vegetation and
Coast Prairie Redox (A16) (MLRA 150A)		wetland hydrology must be present,
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)	•
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Anomalous Bright Loamy Soils (F20) (MLR	-
Dark Surface (S7) (LRR P, S, T, U)	<u> </u>	, 1001, 1000, 1000,
Restrictive Layer (if observed):		
Type:		
Depth (inches):	_	Hydric Soil Present? Yes No
		nyunc son Fresent: Tes No
Remarks: Hydric soil not present		
Tryune son not present		

Project/Site: 1461 Edge Lowman		City/C	County: Washington		Sampling Date: 2020-03-17
Applicant/Owner: Edge Lowman					Sampling Point: UP2160
Investigator(s): Kyle Price Tyler Ru	ıssell	Section	n, Township, Range: F	rankville	
Landform (hillslope, terrace, etc.): Up	land, Flat		relief (concave, convex,		Slope (%): 0
Subregion (LRR or MLRA): P 135	Lai	(1.)(=)(Long:		Datum: WGS 84
Soil Map Unit Name: ByF2				NWI classifica	
Are climatic / hydrologic conditions on	the site typical for this	time of year? Ye	es No		
Are Vegetation, Soil, c		-			resent? YesNo
Are Vegetation, Soil, c				explain any answe	
SUMMARY OF FINDINGS – A					
			pinig point location	Jiis, transcots	, important reatures, etc.
Hydrophytic Vegetation Present?	Yes No		Is the Sampled Area		
Hydric Soil Present?	Yes No		within a Wetland?	Yes	No <u> </u>
Wetland Hydrology Present?	Yes No				
Remarks: Upland sample point W2160					
opiana sampio point vv2100					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one	is required; check all th	nat apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquatic F	auna (B13)	_	_	etated Concave Surface (B8)
High Water Table (A2)		osits (B15) (LRR	(U)	☐ Drainage Pat	
Saturation (A3)	Hydroger	n Sulfide Odor (C	1)	Moss Trim Li	nes (B16)
Water Marks (B1)	U Oxidized	Rhizospheres ale	ong Living Roots (C3)	Dry-Season \	Water Table (C2)
Sediment Deposits (B2)	Presence	of Reduced Iron	ı (C4)	Crayfish Burr	ows (C8)
Drift Deposits (B3)		on Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		k Surface (C7)		Geomorphic	` '
Iron Deposits (B5)		kplain in Remarks	S)	Shallow Aqui	
Inundation Visible on Aerial Image Water-Stained Leaves (B9)	gery (B7)			FAC-Neutral	,
Field Observations:				<u> </u>	loss (D8) (LRR T, U)
	No 🖍 Dept	th (inches):			
	No V Dept				
· ·	No 🔽 Dept			Hydrology Presen	t? Yes No ✔
(includes capillary fringe)					
Describe Recorded Data (stream ga	uge, monitoring well, as	erial photos, prev	rious inspections), if ava	ailable:	
Remarks:					
Hydrology not present					

EGETATION (Four Strata) – Use scientific na	mes of pl	ants.		Sampling Point: UP2160
20.4 -		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	15		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Liquidambar styraciflua	10		FAC	Total Number of Dominant
3	0			Species Across All Strata: 6 (B)
4.	0			
5	0			Percent of Dominant Species That Are OBL FACW or FAC: 50 (A/B)
6.	0			That Are OBL, FACW, or FAC: 50 (A/B)
	0			Prevalence Index worksheet:
7.	0			Total % Cover of: Multiply by:
8				OBL species $0 x 1 = 0$
40		= Total Cov		FACW species $0 x 2 = 0$
	20% of	total cover	5	FAC species 40 x 3 = 120
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 60 x 4 = 240
1. Juniperus virginiana	15		FACU	
2. Morella cerifera	10		FAC	UPL species $0 \times 5 = 0$
3	0			Column Totals: 100 (A) 360 (B)
4.	0			Prevalence Index = B/A = 3.6
5.	0			
	0			Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		Total Cov	_	Problematic Hydrophytic Vegetation ¹ (Explain)
	20% of	total cover	5	
Herb Stratum (Plot size:30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	20		FACU	be present, unless disturbed or problematic.
2. Trifolium repens	15	✓	FACU	Definitions of Four Vegetation Strata:
3. Andropogon gerardii	5		FAC	
Eupatorium capillifolium	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Nothoscordum bivalve	5		FACU	more in diameter at breast height (DBH), regardless of height.
	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less
7	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	- —			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12	0			
	50%	= Total Cov	er er	
50% of total cover: 25	20% of	total cover	· 10	
Woody Vine Stratum (Plot size: 30 ft r)	20 70 0.	10101 00101	·	
	0			
1	0			
2	- 0			
3	- 0			
4	- 0			
5				Hydrophytic
	:	= Total Cov	er er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes No
Remarks: (If observed, list morphological adaptations beli Hydrophytic vegetation not present	ow).			

Profile Desc	ription: (Describe	to the depth	needed to docun	nent the i	ndicator	or confirm	the absence of i	ndicators.)	
Depth	Matrix			x Feature			_		
(inches)	Color (moist)	<u> % </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0 - 20	10YR 4/2	100					Clay loam		
-									
				·					
·									
¹ Type: C=Co	oncentration, D=De	pletion, RM=R	educed Matrix, MS	S=Masked	I Sand Gr	ains.	² Location: PL:	=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to all LI	RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soil	s³:
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) (L	.RR S, T, U	J) 🔲 1 cm Muck	(A9) (LRR O)	
	oipedon (A2)		Thin Dark Su					(A10) (LRR S)	
Black Hi			Loamy Mucky		. , .	R O)		/ertic (F18) (outside MLF	
	n Sulfide (A4)		Loamy Gleye		F2)			Floodplain Soils (F19) (LF	-
	d Layers (A5)	. .	Depleted Mat		-0)			s Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark S	•	,		(MLRA 1	nt Material (TF2)	
	icky Mineral (A7) (L esence (A8) (LRR I		Depleted Dar					ow Dark Surface (TF12)	
_	ick (A9) (LRR P, T)	J,	Marl (F10) (L	•	0)			plain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Och		(MLRA 1	51)	<u> </u>	nam m reomane)	
	ark Surface (A12)	, ,	Iron-Mangan				T) ³ Indicator	rs of hydrophytic vegetation	n and
Coast Pi	rairie Redox (A16) (MLRA 150A)	Umbric Surfa	ce (F13) (LRR P, T	', U)	wetland	d hydrology must be prese	ent,
_	lucky Mineral (S1) (LRR O, S)	Delta Ochric					disturbed or problematic.	
_	Gleyed Matrix (S4)		Reduced Ver						
	ledox (S5)		Piedmont Flo					•=>	
	Matrix (S6)	C T II)	Anomalous B	right Loar	my Soils (F20) (MLR	A 149A, 153C, 15	3D)	
	rface (S7) (LRR P, Layer (if observed)						1		
Type:	-uyo: (0200: vou)	/· <u>•</u>							
	ches):		_				Hydric Soil Pre	sent? Yes N	o 🗸
Remarks:			_				,		
Hydric soil no	ot present								

Project/Site: 1461 Edge Lowman		City/	County: Washington		Sampling Date: 2020-03-17
Applicant/Owner: Edge Lowman					Sampling Point: UP2161
Investigator(s): Kyle Price Tyler Rus	ssell	Section	on, Township, Range: F		
Landform (hillslope, terrace, etc.): Upla			relief (concave, convex,		Slope (%): 0
Subregion (LRR or MLRA): P 135		Lat: (b)(7)f		(b)(7)f	Datum: WGS 84
Soil Map Unit Name: PsF		Luc	Long.	NWI classifica	
Are climatic / hydrologic conditions on t	the site typical for th	nis time of year? V	es V No		
Are Vegetation, Soil, or					
Are Vegetation, Soil, or				explain any answer	,
SUMMARY OF FINDINGS – A	ttach site map	showing sam	ipling point location	ons, transects,	important features, etc.
Hydrophytic Vegetation Present?	Yes	No <u>′</u>	Is the Sampled Area		
Hydric Soil Present?	Yes	No	within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes	No <u>′</u>			<u> </u>
Remarks:					
Upland sample point UP2161					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is	s required; check al	I that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aquati	c Fauna (B13)		Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2)		eposits (B15) (LRF	R U)	Drainage Pat	terns (B10)
Saturation (A3)		gen Sulfide Odor (0		Moss Trim Li	nes (B16)
☐ Water Marks (B1)			long Living Roots (C3)		Vater Table (C2)
Sediment Deposits (B2)		nce of Reduced Iro	, ,	Crayfish Burr	
Drift Deposits (B3)		t Iron Reduction in	Tilled Soils (C6)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		luck Surface (C7) (Explain in Remark	re)	Geomorphic Shallow Aqui	
Inundation Visible on Aerial Imag		(Explain in Roman		FAC-Neutral	` ,
Water-Stained Leaves (B9)	, ,				oss (D8) (LRR T, U)
Field Observations:					
Surface Water Present? Yes _	No 🔽 D	epth (inches):			
	No 🔽 D				
Saturation Present? Yes _ (includes capillary fringe)	No 🔽 D	epth (inches):	Wetland	Hydrology Presen	t? Yes No <u> </u>
Describe Recorded Data (stream gau	ge, monitoring well	, aerial photos, pre	vious inspections), if ava	ailable:	
Remarks: Hydrology not present					
Trydrology flot present					

Tree Stratum (Plot size: 30 ft r)				Sampling Point: UP2161
ree Stratilm (Plot size: 90 it i		Dominant		Dominance Test worksheet:
Pinus taeda	<u>% Cover</u> 40	Species?	FAC	Number of Dominant Species
•				That Are OBL, FACW, or FAC: 4 (A)
Liquidambar styraciflua	10		FAC	Total Number of Dominant
l	0			Species Across All Strata: 9 (B)
l	0			Dersont of Dominant Charles
i	0			Percent of Dominant Species That Are OBL, FACW, or FAC: 44 (A/B
3	0			
	0			Prevalence Index worksheet:
3	0			Total % Cover of: Multiply by:
	50% :	T-4-1 O-1		OBL species $0 \times 1 = 0$
25		Total Cov		FACW species $0 x 2 = 0$
50% of total cover: <u>25</u>	20% of	total cover:	10	FAC species 65 x 3 = 195
Sapling/Shrub Stratum (Plot size: 30 ft r)				FACU species 35 x 4 = 140
Juniperus virginiana	15		FACU	
Morella cerifera	10		FAC	UPL species $0 \times 5 = 0$
l	0			Column Totals: 100 (A) 335 (B)
	0			December of Indian DIA 3.4
	0			Prevalence Index = $B/A = 3.4$
5	0			Hydrophytic Vegetation Indicators:
S	0			1 - Rapid Test for Hydrophytic Vegetation
7	- 			2 - Dominance Test is >50%
3	0			3 - Prevalence Index is ≤3.0 ¹
	25% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 13	20% of	total cover:	5	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
Andropogon gerardii	5	✓	FAC	be present, unless disturbed or problematic.
Bouteloua dactyloides	5		FACU	Definitions of Four Vegetation Strata:
Eupatorium capillifolium	5		FACU	Deminions of Four Vogetation Ordia.
Nothoscordum bivalve	5	<u> </u>	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
· •	5			more in diameter at breast height (DBH), regardless of height.
Trifolium ronono		~	FACU	I HEIGHL
·				g
*· <u> </u>	0			Sapling/Shrub – Woody plants, excluding vines, less
5.	0			
5. 7.	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			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
5. 7. 3.	0 0 0			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.
6. 7. 8. 9.	0 0 0 0			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
6. 7. 8. 9. 10.	0 0 0 0 0 0			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.
6. 7. 8. 9. 10.	0 0 0 0 0 0 0			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
5	0 0 0 0 0 0 0 0 0 25%	= Total Cov		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
5	0 0 0 0 0 0 0 0 0 25%	= Total Cov		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
5	0 0 0 0 0 0 0 0 0 25%			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
5	0 0 0 0 0 0 0 0 0 25%			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
50% of total cover: 13 Noody Vine Stratum (Plot size: 30 ft r)	0 0 0 0 0 0 0 0 0 25%			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
50% of total cover: 13 Noody Vine Stratum (Plot size: 30 ft r)	0 0 0 0 0 0 0 0 25% = 20% of			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
Trifolium repens 5	0 0 0 0 0 0 0 0 25% = 20% of			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
5	0 0 0 0 0 0 0 25% = 20% of			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.
50% of total cover: 13 Noody Vine Stratum (Plot size: 30 ft r) 1	0 0 0 0 0 0 0 25% = 20% of	total cover:		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
50% of total cover: 13 Noody Vine Stratum (Plot size: 30 ft r)	0 0 0 0 0 0 0 25% = 20% of	total cover:		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.

Depth Matrix			uto: 0: 00::::::	n the absence of	maicators.)	
(in ab a a)		x Features	pe ¹ Loc ²	Tarduna	Damadra	
(inches) Color (moist) % 0 - 20 7.5YR 4/6 100	Color (moist)	<u>% Ty</u>	pe' Loc ²	<u>Texture</u> _	Remarks	
0 - 20 7.5YR 4/6 100				Clay		
		· 				
-						
		· · 				
		· 				
						
-						
-						
¹ Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix MS	S=Masked San	d Grains	² I ocation: PI	_=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all L			<u> </u>		r Problematic Hydric Soils	· ·
☐ Histosol (A1)		•	8) (LRR S, T, I		ck (A9) (LRR O)	
Histic Epipedon (A2)	_ ·	rface (S9) (LR		· —	ck (A10) (LRR S)	
Black Histic (A3)		y Mineral (F1)			Vertic (F18) (outside MLRA	150A,B)
Hydrogen Sulfide (A4)	Loamy Gleye		,		Floodplain Soils (F19) (LRF	
Stratified Layers (A5)	Depleted Ma				us Bright Loamy Soils (F20)	
Organic Bodies (A6) (LRR P, T, U)	Redox Dark	Surface (F6)		(MLRA	153B)	
5 cm Mucky Mineral (A7) (LRR P, T, U)		k Surface (F7)			nt Material (TF2)	
Muck Presence (A8) (LRR U)	Redox Depre	essions (F8)			llow Dark Surface (TF12)	
1 cm Muck (A9) (LRR P, T)		•		U Other (Ex	plain in Remarks)	
Depleted Below Dark Surface (A11)		nric (F11) (MLF		2		
Thick Dark Surface (A12)			12) (LRR O, P		ors of hydrophytic vegetation	
Coast Prairie Redox (A16) (MLRA 150A)		ce (F13) (LRR			d hydrology must be presen	t,
Sandy Mucky Mineral (S1) (LRR O, S)		(F17) (MLRA 1			disturbed or problematic.	
Sandy Gleyed Matrix (S4) Sandy Redox (S5)			A 150A, 150B) F19) (MLRA 1 4			
Stripped Matrix (S6)				49A) RA 149A, 153C, 1	E3D/	
Dark Surface (S7) (LRR P, S, T, U)	Anomalous L	origini Loarriy Si	0115 (1 20) (WILF	(A 149A, 1930, 1	55D)	
Restrictive Layer (if observed):						
Type:						
3. <u> </u>				Hydric Soil Pr	esent? Yes No	~
Depth (inches):				Hydric 30ii Fi	esent: res No	
Remarks: Hydric soil not present						
riyana com not processi						

Project/Site: 1461 Edge Lowman	I	City/	County: Washington		Sampling Date: 2020-03-18
Applicant/Owner: Edge Lowman			<u>-</u>	State: Alabama	Sampling Point: UP2162
Investigator(s): Kyle Price Tyler I	Russell	Section	on, Township, Range: F		
Landform (hillslope, terrace, etc.):					Slope (%):
Subregion (LRR or MLRA): P 135		Lat: (b)(7)f	_	(b)(7)f	Datum: WGS 84
Soil Map Unit Name: PSD	-		Long.	NWI classifica	
Are climatic / hydrologic conditions of	on the site typical for	this time of year? V	'es V No		
Are Vegetation, Soil					
Are Vegetation, Soil				explain any answe	
SUMMARY OF FINDINGS –	Attach site ma	ap snowing sam	ipling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present?	Yes	No	Is the Sampled Area		
Hydric Soil Present?	Yes	No	within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes	No			
Remarks:					
Upland sample point UP2162					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of on	e is required; check	all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Aqua	atic Fauna (B13)		Sparsely Veg	jetated Concave Surface (B8)
High Water Table (A2)		Deposits (B15) (LRI		Drainage Pat	terns (B10)
Saturation (A3)		rogen Sulfide Odor (0		Moss Trim Li	
Water Marks (B1)			long Living Roots (C3)		Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		ence of Reduced Iro ent Iron Reduction in	` '	☐ Crayfish Burr	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	Tilled Solls (Co)	Geomorphic	
Iron Deposits (B5)		er (Explain in Remark	(S)	Shallow Aqui	
Inundation Visible on Aerial In		` '	,	FAC-Neutral	
☐ Water-Stained Leaves (B9)				Sphagnum m	noss (D8) (LRR T, U)
Field Observations:					
	es No				
	es No				.,
Saturation Present? Ye (includes capillary fringe)	es No	Depth (inches):	Wetland	Hydrology Presen	t? Yes No
Describe Recorded Data (stream of	gauge, monitoring we	ell, aerial photos, pre	vious inspections), if av	ailable:	
Remarks: Hydrology not present					

20.4 -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	25		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Juniperus virginiana	5		FACU	Total Number of Dominant
3. Liquidambar styraciflua	5		FAC	Species Across All Strata: 6 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	35% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 18	20% of	total cover:	7	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\underline{50}$ $\times 3 = \underline{150}$
1. Juniperus virginiana	15	~	FACU	FACU species <u>50</u> x 4 = <u>200</u>
2. Ilex vomitoria	10		FAC	UPL species $0 x 5 = 0$
3. Liquidambar styraciflua	10	<u> </u>	FAC	Column Totals: 100 (A) 350 (B)
Ostrya virginiana	10		FACU	
5. Aesculus pavia	5		FACU	Prevalence Index = $B/A = 3.5$
· · ·	- ——		1 700	Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	50% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 25	20% of	total cover:	10	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	15		FACU	be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3.	0			
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
	0			height.
5	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			than 5 in. DBH and greater than 5.25 it (1 in) tail.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine - All woody vines greater than 3.28 ft in
11	- 			height.
12	0			
		Total Cov		
50% of total cover: 8	20% of	total cover	3	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4.	0			
5.	0			Uvdranhytia
u	·	Total Cov	er	Hydrophytic Vegetation
50% of total cover:				Present? Yes No
		total cover.	<u> </u>	
Remarks: (If observed, list morphological adaptations belo	ow).			
Hydrophytic vegetation not present				

Sampling Point: UP2162

Depth	ription: (Describe Matrix			Features		the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
0 - 20	7.5YR 4/4	100				Clay	
-							
			_				
					_		
	oncentration, D=De	•			Grains.		PL=Pore Lining, M=Matrix.
l <u> </u>	Indicators: (Appli	cable to all Li		•			for Problematic Hydric Soils ³ :
Histosol	` '			ow Surface (S8)			uck (A9) (LRR O)
. 	oipedon (A2)			face (S9) (LRR S Mineral (F1) (LR			luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B)
Black Hi	n Sulfide (A4)		Loamy Gleye		.K ()		ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Mat				lous Bright Loamy Soils (F20)
	Bodies (A6) (LRR I	P, T, U)	Redox Dark S				A 153B)
	cky Mineral (A7) (L		Depleted Dark	k Surface (F7)			rent Material (TF2)
	esence (A8) (LRR		Redox Depre				nallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Mari (F10) (Li	•	454\	U Other (Explain in Remarks)
I = '	d Below Dark Surfa ark Surface (A12)	Ce (ATT)		ric (F11) (MLRA ese Masses (F12)		T) ³ Indica	ators of hydrophytic vegetation and
_	rairie Redox (A16) ((MLRA 150A)		ce (F13) (LRR P,			and hydrology must be present,
	lucky Mineral (S1)	•		F17) (MLRA 151			ess disturbed or problematic.
_	leyed Matrix (S4)		_	ic (F18) (MLRA 1			
_	edox (S5)			odplain Soils (F19			
. =	Matrix (S6) rface (S7) (LRR P,	C T II)		right Loamy Soils	(F20) (MLR	A 149A, 153C,	153D)
	_ayer (if observed						
Type:	-uyo. (0200.10u						
, , <u> </u>	ches):					Hydric Soil	Present? Yes No
Remarks:			_			,	
Hydric soil no	ot present						

Project/Site: 1461 Edge Lowman	City/County: Washington	Sampling Date: 2020-03-18
Applicant/Owner: Edge Lowman		Sampling Point: UP2163
•••	Section, Township, Range: Frankville	
	Local relief (concave, convex, none): none	Slope (%): 0
	(b)(7)f Long: (b)(7)f	Datum: WGS 84
Soil Map Unit Name: PSF	NWI classificat	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significantly		
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing		
Livetranhytia Vagatatian Procent?		
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No	Is the Sampled Area	
Wetland Hydrology Present? Yes No	within a Wetland? Yes	No
Remarks:		
Upland sample point UP2163		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil 0	Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13		etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15		
Saturation (A3) Hydrogen Sulfide C		
	— · · · · — —	Vater Table (C2)
Sediment Deposits (B2) Presence of Reduc		
	tion in Tilled Soils (C6) Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	(C7) Geomorphic F	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in R	emarks)	ard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	Test (D5)
☐ Water-Stained Leaves (B9)	☐ Sphagnum m	oss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No Depth (inches)	i:	
Water Table Present? Yes No Depth (inches)	· · ·	
Saturation Present? Yes No Depth (inches)	: Wetland Hydrology Present	t? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	ps previous inspections) if available:	
2000 100 1 1000 100 2010 (0100111 gauge, 1101110 1111 gauge, 1101110 111110 1111 gauge, 1101110 1111 gauge, 1101110 1111 gauge, 1101110 111110 1111 gauge, 1101110 1111 1111 1111 1111 1111 1111	o, p. o	
Remarks:		
Hydrology not present		

20.4 -		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	25		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Juniperus virginiana	5		FACU	Total Number of Dominant
3. Liquidambar styraciflua	5		FAC	Species Across All Strata: 6 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	35% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 18	20% of	total cover:	7	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\underline{50}$ $x 3 = \underline{150}$
1. Juniperus virginiana	15	~	FACU	FACU species <u>50</u> x 4 = <u>200</u>
2. Ilex vomitoria	10		FAC	UPL species $0 x = 0$
3. Liquidambar styraciflua	10	<u> </u>	FAC	Column Totals: 100 (A) 350 (B)
4. Ostrya virginiana	10		FACU	
5. Aesculus pavia	5		FACU	Prevalence Index = $B/A = 3.5$
· · ·	- —		1 700	Hydrophytic Vegetation Indicators:
6	0			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
	50% =	Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 25	20% of	total cover:	10	
Herb Stratum (Plot size: 30ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	15		FACU	be present, unless disturbed or problematic.
2.	0			Definitions of Four Vegetation Strata:
3.	0			
4.	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
	0			height.
5	0			
6	0			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7	0			than 5 in. DBH and greater than 5.25 it (1 in) tail.
8	0			Herb – All herbaceous (non-woody) plants, regardless
9	0			of size, and woody plants less than 3.28 ft tall.
10	0			Woody vine - All woody vines greater than 3.28 ft in
11	- 			height.
12	0			
		Total Cov		
50% of total cover: 8	20% of	total cover	3	
Woody Vine Stratum (Plot size: 30 ft r)				
1	0			
2	0			
3	0			
4.	0			
5.	0			Uvdranhytia
v	· ——	Total Cov	er	Hydrophytic Vegetation
50% of total cover:				Present? Yes No
		total cover.	<u> </u>	
Remarks: (If observed, list morphological adaptations belo	ow).			
Hydrophytic vegetation not present				

Sampling Point: UP2163

(inches)	Matrix Color (moist)	%		Features Type ¹ Loc ²	- Toytura	Domarka
0 - 20	10YR 4/2	_ <u>%</u>	Color (moist)	% Type ¹ Loc ²	Texture Sandy clay	Remarks
0 20	10110 4/2				- Januy Clay	
-						
-						
	-					
				=Masked Sand Grains.		L=Pore Lining, M=Matrix.
ydric Soil	ndicators: (Appli	cable to all L	RRs, unless other	•		r Problematic Hydric Soils ³ :
Histosol				ow Surface (S8) (LRR S, T		ck (A9) (LRR O)
=	pipedon (A2)			face (S9) (LRR S, T, U)		ck (A10) (LRR S)
Black Hi				Mineral (F1) (LRR O)		Vertic (F18) (outside MLRA 150A,I
_ · ·	n Sulfide (A4)		Loamy Gleye	, ,		t Floodplain Soils (F19) (LRR P, S, 1
	l Layers (A5) Bodies (A6) (LRR l	D T II\	Depleted Mat		(MLRA	us Bright Loamy Soils (F20)
	cky Mineral (A7) (L		=	k Surface (F7)	1 1 '	ent Material (TF2)
	esence (A8) (LRR		Redox Depre	` ,		llow Dark Surface (TF12)
_	ck (A9) (LRR P, T)		Marl (F10) (L l	` '		plain in Remarks)
Depleted	Below Dark Surfa	ce (A11)	Depleted Och	ric (F11) (MLRA 151)		
=	rk Surface (A12)			ese Masses (F12) (LRR O,		ors of hydrophytic vegetation and
	rairie Redox (A16)			ce (F13) (LRR P, T, U)		nd hydrology must be present,
	lucky Mineral (S1)	(LRR O, S)		F17) (MLRA 151)		s disturbed or problematic.
	leyed Matrix (S4)		=	ic (F18) (MLRA 150A, 150 I	•	
_	edox (S5) Matrix (S6)			odplain Soils (F19) (MLRA right Loamy Soils (F20) (ML		53D)
= ''	face (S7) (LRR P,	S. T. U)	Anomalous B	nghi Loamy Sons (1 20) (ML	INA 143A, 133C, 1	335)
	ayer (if observed					
Type:						
, 	ches):				Hydric Soil Pr	resent? Yes No 🗸
Remarks:	,					
lydric soil no	ot present					

Project/Site: 1461 Edge Lowman	Citv/C	County: Washington		Sampling Date: 2020-03-18
Applicant/Owner: Edge Lowman				Sampling Point: UP2164/UP2165
Investigator(s): Kyle Price Tyler Russell	Section	n, Township, Range: Fi		
Landform (hillslope, terrace, etc.): Upland, Hillslope				Slope (%): 0
Subregion (LRR or MLRA): P 135	Lat: (b)(7)f	_	(b)(7)f	Datum: WGS 84
Soil Map Unit Name: PoB	_ Lat. (5/(1/2	Long.	NWI classifica	
Are climatic / hydrologic conditions on the site typical for	this time of year? Ve	No.		
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology			explain any answei	,
SUMMARY OF FINDINGS – Attach site ma	ap showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No 🔽	le the Sampled Area		
Hydric Soil Present? Yes	No 🗸	Is the Sampled Area within a Wetland?	Vos	No <u> </u>
Wetland Hydrology Present? Yes	No V	within a Wettana:	163	
Remarks:				
Upland sample point UP2164/UP2165				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)		Surface Soil	
Surface Water (A1)	atic Fauna (B13)	<u> </u>		getated Concave Surface (B8)
High Water Table (A2)	Deposits (B15) (LRR	: U)	Drainage Pat	terns (B10)
	rogen Sulfide Odor (C		Moss Trim Li	nes (B16)
		ong Living Roots (C3)		Water Table (C2)
1 	sence of Reduced Iron	, ,	Crayfish Burr	
	ent Iron Reduction in ⁻ Muck Surface (C7)	Tilled Soils (C6)		sible on Aerial Imagery (C9)
	er (Explain in Remarks	s)	Geomorphic Shallow Aqui	
Inundation Visible on Aerial Imagery (B7)	/ (Explain in Romana	5)	FAC-Neutral	
Water-Stained Leaves (B9)				noss (D8) (LRR T, U)
Field Observations:	-			
Surface Water Present? Yes No				
Water Table Present? Yes No				
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland H	lydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, prev	vious inspections), if ava	ilable:	
Remarks: Hydrology not present				
Trydiology not present				

20 # "	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species
1. Pinus taeda	25		FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Juniperus virginiana	5		FACU	Total Number of Dominant
3. Liquidambar styraciflua	5		FAC	Species Across All Strata: 6 (B)
4	0			Percent of Dominant Species
5	0			That Are OBL, FACW, or FAC: 50 (A/B)
6	0			- ,
7	0			Prevalence Index worksheet:
8	0			Total % Cover of: Multiply by:
	35% =	Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover: 18	20% of	total cover:	7	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 30 ft r)				FAC species $\underline{50}$ $\times 3 = \underline{150}$
1. Juniperus virginiana	15	/	FACU	FACU species <u>50</u> x 4 = <u>200</u>
2. Ilex vomitoria	10		FAC	UPL species <u>0</u> x 5 = <u>0</u>
3. Liquidambar styraciflua	10		FAC	Column Totals: 100 (A) 350 (B)
Ostrya virginiana	10		FACU	
5. Aesculus pavia	5		FACU	Prevalence Index = $B/A = 3.5$
· ·	0		1700	Hydrophytic Vegetation Indicators:
6	· —			1 - Rapid Test for Hydrophytic Vegetation
7	0			2 - Dominance Test is >50%
8	0			3 - Prevalence Index is ≤3.0 ¹
		Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 25	20% of	total cover:	10	
Herb Stratum (Plot size: 30 ft r)				¹ Indicators of hydric soil and wetland hydrology must
1. Bouteloua dactyloides	15		FACU	be present, unless disturbed or problematic.
2	0			Definitions of Four Vegetation Strata:
3	0			Tree Mondy plants evaluding vines 2 in (7.6 cm) or
4	0			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.	0			height.
6.	0			Sapling/Shrub – Woody plants, excluding vines, less
7.	0			than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.	0			
	0			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	0			of size, and woody plants less than size it tall.
10	0			Woody vine – All woody vines greater than 3.28 ft in
11	0			height.
12				
0		Total Cov		
50% of total cover: 8	20% of	total cover:	<u> </u>	
Woody Vine Stratum (Plot size: 30 ft r)	0			
1	0			
2	0			
3	0			
4	0			
5	0			Hydrophytic
	=	Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes No
Remarks: (If observed, list morphological adaptations belo	ow)		<u> </u>	
Hydrophytic vegetation not present	··· /·			
, yarapriyua ragatalari nat procesii				

Sampling Point: UP2164/UP2165

SOIL Sampling Point: UP2164/UP2165

Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	ndicator	or confirn	n the absence	of indicato	ors.)	
Depth	<u>Matrix</u>			x Features		. 2	- .			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>		Remarks	.
0 - 20	10YR 4/2	100					Sandy clay			_
-										
				· ——						
_										
-				· ——			 -			
<u> </u>										
	oncentration, D=De					ains.			ining, M=Matr	
Hydric Soil	Indicators: (Appli	cable to all LF	Rs, unless other	wise note	ed.)		Indicators	for Proble	matic Hydric	Soils*:
Histosol			Polyvalue Be		. , .			uck (A9) (I	•	
	oipedon (A2)		Thin Dark Su					uck (A10)		
Black Hi			Loamy Muck			R O)				MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		F2)) (LRR P, S, T)
	d Layers (A5)		Depleted Mar					_	Loamy Soils	(F20)
= -	Bodies (A6) (LRR I		Redox Dark	•			, i	A 153B)	:-L/TEC\	
	icky Mineral (A7) (L		Depleted Dar		. ,			rent Mater		10)
	esence (A8) (LRR		Redox Depre		3)				k Surface (TF	12)
	ick (A9) (LRR P, T) d Below Dark Surfa		✓ Marl (F10) (L✓ Depleted Oct	-	/MI DA 1	51 \	U Other (Explain in l	Remarks)	
· =	ark Surface (A12)	ce (ATT)	Iron-Mangan				T) ³ Indic:	ators of hw	drophytic vege	etation and
. —	rairie Redox (A16) ((MI RA 150A)	Umbric Surfa						ogy must be p	
	lucky Mineral (S1)		Delta Ochric			, •,		-	ed or problema	
_	Gleyed Matrix (S4)	(=:::: 0, 0)	Reduced Ver			OA. 150B)			54 5. p. 65.6	
_	ledox (S5)		Piedmont Flo							
_	Matrix (S6)						, RA 149A, 153C,	153D)		
	rface (S7) (LRR P,	S, T, U)	_	J	,	, ,		,		
	_ayer (if observed									
Type:										
, , <u> </u>	ches):						Hydric Soil	Present?	Yes	No 🗸
Remarks:							nyano con	- 10001111		
Hydric soil no	ot present									
	'									

Project/Site: 1461 Edge Lowman		City/0	County: Washington		Sampling Date: 2020-03-18		
Applicant/Owner: Edge Lowman		State: Alabama Sampling Point: UP2166					
Investigator(s): Kyle Price Tyler R	ice Tyler Russell Section, Township, Range: Frankville						
Landform (hillslope, terrace, etc.): U			relief (concave, convex,		Slope (%): 0		
Subregion (LRR or MLRA): P 135		Lat: (b)(7)f	Long:	(b)(7)f	Datum: WGS 84		
Soil Map Unit Name: ByB			Long.	NWI classifica			
Are climatic / hydrologic conditions o	on the site typical for	this time of year? Y	es No	(If no, explain in R			
Are Vegetation, Soil,		-			resent? YesNo		
Are Vegetation, Soil,				explain any answe	· · · · · · · · · · · · · · · · · · ·		
SUMMARY OF FINDINGS -							
		·		,	, ,		
Hydrophytic Vegetation Present?	Yes	No V	Is the Sampled Area				
Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	No V	within a Wetland?	Yes	No		
Remarks:	103	NO					
Upland sample point 2166							
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one	e is required; check a	all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	☐ Agua	tic Fauna (B13)	_		getated Concave Surface (B8)		
High Water Table (A2)		Deposits (B15) (LRF	R U)	☐ Drainage Pat			
Saturation (A3)	□ Hydro	ogen Sulfide Odor (C	C1)	Moss Trim Li	nes (B16)		
Water Marks (B1)	Oxidi:	zed Rhizospheres a	long Living Roots (C3)	Dry-Season \	Water Table (C2)		
Sediment Deposits (B2)	Prese	ence of Reduced Iro	n (C4)	Crayfish Burr	rows (C8)		
Drift Deposits (B3)	<u></u> Rece	nt Iron Reduction in	Tilled Soils (C6)	Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin!	Muck Surface (C7)		Geomorphic	Position (D2)		
Iron Deposits (B5)	<u></u> Other	r (Explain in Remark	as)	Shallow Aqui	tard (D3)		
Inundation Visible on Aerial Im	agery (B7)			FAC-Neutral	Test (D5)		
☐ Water-Stained Leaves (B9)				Sphagnum m	noss (D8) (LRR T, U)		
Field Observations:							
	s No 🔽 [
	s No 🔽 [
Saturation Present? Yes (includes capillary fringe)	s No 🔽 [Depth (inches):	Wetland	Hydrology Presen	t? Yes No		
Describe Recorded Data (stream g	auge, monitoring we	II, aerial photos, pre	vious inspections), if ava	ailable:			
Remarks:							
Hydrology not present							

mes of pla			Sampling Point: UP2166
% Cover		Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
· —			That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
· ——		17.00	Total Number of Dominant Species Across All Strata: 6 (B)
· <u>-</u>			Species Across All Strata: 6 (B)
· —			Percent of Dominant Species
· —			That Are OBL, FACW, or FAC: 33 (A/B
· —			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
	Total Cov		OBL species $0 x 1 = 0$
			FACW species $0 x 2 = 0$
20% 01	total cover.	· <u></u>	FAC species 20 x 3 = 60
10	~	FACU	FACU species 80 x 4 = 320
			UPL species $0 x 5 = 0$
· —			Column Totals: 100 (A) 380 (B)
· —			
· —			Prevalence Index = B/A = 3.8
· —			Hydrophytic Vegetation Indicators:
· —			1 - Rapid Test for Hydrophytic Vegetation
· —			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0 ¹
			☐ Problematic Hydrophytic Vegetation¹ (Explain)
20% of	total cover		
25	.,	ΕΔCII	¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Four Vegetation Strata:
		1 700	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) o
			more in diameter at breast height (DBH), regardless of height.
			noight.
			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.
0			
600/			
	Total Cov		
	= Total Cov		
20% of			
20% of			
20% of 0			
20% of 0 0 0			
20% of 0 0 0 0			
20% of 0 0 0			Hydrophytic
20% of 0		12	Hydrophytic Vegetation Present? Yes No
	10 10 0 0 0 0 0 0 0 20% = 20% of 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10	10

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence of	indicators.)
Depth	Matrix			x Feature:		. 2		
(inches)	Color (moist)	<u> % </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 20	2.5Y 4/2	100					Sand	
					-			
-								
	-							
					-			
¹ Type: C=Ce	oncentration, D=De	pletion, RM=R	educed Matrix, MS	S=Masked	I Sand Gr	ains.	² Location: PL	.=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all Li	RRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric Soils ³ :
Histosol			Polyvalue Be					k (A9) (LRR O)
	pipedon (A2)		Thin Dark Su					k (A10) (LRR S)
Black Hi			Loamy Mucky			R O)		Vertic (F18) (outside MLRA 150A,E
	n Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Mat		F2)			Floodplain Soils (F19) (LRR P, S, T is Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P T II)	Redox Dark S	. ,	6)		(MLRA	• • • • • • •
	icky Mineral (A7) (L		Depleted Dar	•	,			nt Material (TF2)
=	esence (A8) (LRR I		Redox Depre					low Dark Surface (TF12)
1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (L	RR U)	•		Other (Ex	plain in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Och					
_	ark Surface (A12)		Iron-Mangan					rs of hydrophytic vegetation and
	rairie Redox (A16) (, U)		d hydrology must be present,
_	lucky Mineral (S1) (Bleyed Matrix (S4)	LKK U, 3)	Delta Ochric Reduced Ver			.0Δ 150R)		disturbed or problematic.
_	tedox (S5)		Piedmont Flo					
_	Matrix (S6)						A 149A, 153C, 15	53D)
	rface (S7) (LRR P,	S, T, U)						
Restrictive I	_ayer (if observed)):						
Type:			<u> </u>					
Depth (in	ches):						Hydric Soil Pre	esent? Yes No
Remarks: Hydric soil no	nt present							
Tiyunc son ne	n present							

Appendix D

Environmental Survey Photographs

Appendix D – Environmental Survey Photographs Lowman Pipeline Project NextEra Energy Pipeline Holdings (Lowman), Inc.



Photograph #1 – Representative view of a palustrine forested (PFO) wetland within the survey area, facing west.



Photograph #2 – Representative view of a Palustrine scrub/shrub (PSS) wetland within the survey area, facing north.



Photograph #3 – Representative view of palustrine emergent (PEM) wetland within the survey area facing north.



Photograph #4 – Representative view of a ditch within the pipeline survey area facing south.



Photograph #5 - Representative view of a pond within the survey area facing northeast.



Photograph #6 – Representative view of the ephemeral stream within the survey area, facing west.



Photograph #7 – Representative view of an intermittent stream within the survey area, facing southeast.



Photograph #8 —Representative view of pasture/agricultural land within the survey area facing south.



Photograph #9 – Representative view of an existing pipeline right-of-way within the survey area facing northeast.



Photograph #10- Representative view of the Okatuppa Creek within the survey area, facing northwest.



Photograph #11 – Representative view of Folsoms Creek within the survey area, facing northwest.



Photograph #12— Representative view of the Elias Creek within the survey area, facing northeast.



Photograph #13— Representative view of the large waterbody connecting to Mill Branch within the survey area, facing east.



Photograph #14— Representative view of the Bougueloosa Creek within the survey area, facing north.