Wetland Feature Datasheet

rshed: Brier			
12-Digit HUC: 030601080201			
Forested Acreage: 1.00			
S	sted Acreage: 1.00		

Dominant Vegetation: Liriodendron tulipifera, Nyssa sylvatica, Acer rubrum, Magnolia virginiana, Arundinaria gigantea, Smilax rotundifolia



 $^{^{\}mbox{\tiny 1}}$ HUC - U.S. Geological Survey Hydrologic Unit Code

Print Form

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmission Line Applicant/Owner: Georgia Power Company	City/County: McDuffie County Sampling Date: 4/27/2011 State: GA Sampling Point: DP30 (W-15
Applicant/Owner: Georgia Power Company	State: GA Sampling Point: DP30 (W-15
nvestigator(s): MEN, MWW	Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%): Datum: NVVI classification: none
Are climatic / hydrologic conditions on the site typical for this time of y Are Vegetation, Soil, or Hydrology significantly Are Vegetation, Soil, or Hydrology naturally processes.	ear? Yes No (If no, explain in Remarks.) y disturbed?
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	
02wet09N	
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Hydrogen Sulf Oxidized Rhize Presence of R	Leaves (B9) X Sparsely Vegetated Concave Surface (B8)
Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photographs)	S): 12 S): 4 Wetland Hydrology Present? Yes No
Romarks:	
Buttressed trees	

	/COET	ATION	1100	aniontifia	naman	of.	nlanta
١	CUEI	AHUN	- USE	scientific	Hallies	OI	Diants.

Tree Stratum (Plot size:) 1. Betula nigra 2. Liriodendron tulipifera 3. Acer rubrum 4. Liquidambar styraciflua 5 6 7 Sapling Stratum (Plot size:) 1. Ilex opaca 2. Nyssa sylvatica 3. Magnolia virginiana 4	5 10 15 5	Total Cov	FACW FAC FAC FAC	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 Prevalence Index worksheet	6 100%	(A) (B) (A/B)
Acer rubrum Liquidambar styraciflua Liquidambar styrac	15 5 	= Total Cov	FAC FAC	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet	6 100%	(B)
Acer rubrum Liquidambar styraciflua Liquidambar styrac	35	= Total Cov	FAC FAC	Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet	100%	
Sapling Stratum (Plot size:) Illex opaca Nyssa sylvatica Magnolia virginiana	35	= Total Cov		That Are OBL, FACW, or FAC		(A/B)
6	35 10		/er	That Are OBL, FACW, or FAC		(A/B)
Sapling Stratum (Plot size:) 1. Ilex opaca 2. Nyssa sylvatica 3. Magnolia virginiana	35 10		 		:	
Sapling Stratum (Plot size:) 1. Ilex opaca 2. Nyssa sylvatica 3. Magnolia virginiana	10		 /er			
1 llex opaca Nyssa sylvatica Magnolia virginiana	10		ver .			
1 llex opaca Nyssa sylvatica Magnolia virginiana	10			Total % Cover of:	Multiply by	<u>C</u>
Nyssa sylvatica Magnolia virginiana		The state of the s		OBL species	x 1 =	
Magnolia virginiana	5	×	FAC	FACW species	x 2 =	
		×	FAC	FAC species		
	5	×	FACW	FACU species		
4.				UPL species		
5				Column Totals:	(A)	(B)
6				Prevalence Index = B/A	_	
7						
	20	= Total Cov	er	Hydrophytic Vegetation India	cators:	
Shrub Stratum (Plot size:)				Dominance Test is >50%		
1				Prevalence Index is ≤3.0¹		
2		-		Problematic Hydrophytic V	egetation ¹ (Ex	(plain)
3.						
				¹ Indicators of hydric soil and w	etland hydrolo	av must
4				be present, unless disturbed of		gy must
5						
6		빌		Definitions of Vegetation Str	ata:	
7		$\underline{}$		Tree – Woody plants, excludin	a woody vines	
		= Total Cov	er	approximately 20 ft (6 m) or mo		
Herb Stratum (Plot size:)				(7.6 cm) or larger in diameter a		
1. Arundinaria gigantea	20	×	FACW	Sanling Mondernlants such	ralina a riva a alici di	
2. Woodwardia areolata	2		OBL	Sapling – Woody plants, exclusion approximately 20 ft (6 m) or more		
3. Athyrium filix-femina	1		FAC	than 3 in. (7.6 cm) DBH.		
4.				1		
				Shrub – Woody plants, exclud approximately 3 to 20 ft (1 to 6		es,
5.		一百		approximately 5 to 20 it (1 to 6	m) in neight.	
δ	— ——	ㅡ님		Herb - All herbaceous (non-wo		
7				herbaceous vines, regardless		
3				plants, except woody vines, les 3 ft (1 m) in height.	ss than approxi	imately
9.				3 it (1 iii) iii fieigitt.		
10				Woody vine - All woody vines	, regardless of	height.
11.						
		一百				
12	23					
Noody Vine Stratum (Plot size:)	=	= Total Cov	er			
Smilax rotundifolia	3		FAC			
• • • • • • • • • • • • • • • • • • • •						
2				1		
3						
3 4				Hydrophytic		
4		Total Cov	er	Vegetation Present? Yes	× No C	3
4		Total Cov	 er	Present? Yes	× №]
4	3=	Total Cov	er	Present? Yes	× №]
4 5	3=	= Total Cov	er	Present? Yes	× No]
4 5	3=	= Total Cov	er	Present? Yes	× No]
4 5	3=	= Total Cov	er	Present? Yes	× No]

Depth	Matrix			x Feature							
(inches)	Color (moist)	<u>%</u> -	Color (moist)	%	Type ¹	_Loc ²	Texture	F11 1 F	Rema		
) - 2	5YR3/4	100					Muck	Fibric Pe		Sandy	y Loam
? - 15	2.5Y3/1	100					S. Loam	Sandy L	oam		
Histoso Histoso Histic E Black H Hydrog Stratific Organi 5 cm M Muck F	Concentration, D=De I Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) c Bodies (A6) (LRR Indicesses (LRR Indices	P, T, U) RR P, T, U)	Reduced Matrix, C: Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre	elow Surfa urface (S9 sy Mineral ed Matrix (itrix (F3) Surface (F rk Surface essions (F	ce (S8) (L) (LRR S, (F1) (LRR (F2)	.RR S, T, T, U)	Indicators U) 1 cm 2 cm Redu Piedn Anom (ML	ocation: PL= s for Proble Muck (A9) (L Muck (A10) (ced Vertic (F nont Floodpla alous Bright RA 153B) Parent Materi Shallow Dark (Explain in F	matic Hy LRR O) (LRR S) (18) (outs ain Soils Loamy S (ial (TF2))	ydric So side ML (F19) (L Soils (F2	IIs ³ : RA 150A RR P, S, 0)
Thick [ed Below Dark Surfac Dark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (MLRA 150A)	Depleted Ocured Iron-Mangar Umbric Surfa Delta Ochric	ese Mass ace (F13)	es (F12) ((LRR P, T	LRR O, P , U)	we un	cators of hydeletand hydroletand hydroleta	ogy must	be pres	ent,
Sandy Sandy Strippe Dark S	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, 3	S, T, U)	Reduced Ve	rtic (F18) (podplain S	MLRA 15 oils (F19)	(MLRA 1		C, 153D)			
Sandy Sandy Strippe Dark S Restrictive Type: Depth (ii	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed)	S, T, U)	Reduced Ve	rtic (F18) (podplain S	MLRA 15 oils (F19)	(MLRA 1	49A) RA 149A, 1530		Yes	×	No[
Sandy Sandy Strippe Dark S Restrictive Type:	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, Layer (if observed)	S, T, U)	Reduced Ve Piedmont Fle Anomalous B	rtic (F18) (podplain S Bright Loa	(MLRA 15 poils (F19) my Soils (I	(MLRA 1. F20) (MLR	49A) RA 149A, 1530 Hydric Soi	I Present?	Yes	X	No

Print Form

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmission Applicant/Owner: Georgia Power Company	Line City	/County: McDuffie Cou	unty	Sampling Date: 4/27/2011
Applicant/Owner: Georgia Power Company			State: GA	Sampling Point: DP31 (W-
Investigator(s): MEN, MWW	Sec	ction, Township, Range: _		
Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LRR P Soil Map Unit Name: NhC	Loc	al relief (concave, convex	, none):	Slope (%):
Are Climatic / hydrologic conditions on the site typic Are Vegetation, Soil, or Hydrology _ Are Vegetation, Soil, or Hydrology _ SUMMARY OF FINDINGS - Attach site	cal for this time of year? significantly dist naturally proble	Yes No Are "Normal matic? (If needed,	(If no, explain in al Circumstances explain any ans	n Remarks.) s" present? Yes X No X N
Lindsophydia Vagadatian Drasant?	No X	Is the Sampled Area within a Wetland?		□ No ⊠
upland point for 02wet09N HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Inc	licators (minimum of two require
Primary Indicators (minimum of one is required; c	heck all that apply)		Surface S	oil Cracks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Lea Aquatic Fauna (B1 Marl Deposits (B15	3)	Drainage	Vegetated Concave Surface (B8) Patterns (B10) n Lines (B16)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduc	eres on Living Roots (C3)	Crayfish E	on Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		tion in Tilled Soils (C6)		nic Position (D2)
Iron Deposits (B5)	Thin Muck Surface		- Innered	quitard (D3)
Inundation Visible on Aerial Imagery (B7)	U Other (Explain in R	emarks)		ral Test (D5)
Field Observations: Surface Water Present? Water Table Present? Yes No No	Depth (inches): Depth (inches):			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland		sent? Yes D No D
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, p	revious inspections), if av	allable:	
Ramarks:				
Hydrologic indicators not present.				

VEGETATION - Use scientific names of plants.

Sampling Point: DP31 Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species × FACU 1 Quercus falcata 10 That Are OBL, FACW, or FAC: _ (A) 2. Tulip poplar 15 × FAC Total Number of Dominant 3 Liquidambar styraciflua 15 FAC × Species Across All Strata: Percent of Dominant Species 71% That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: 40 = Total Cover OBL species _____ x 1 = ____ Sapling Stratum (Plot size: 1 Liquidambar styraciflua 5 × FAC FACW species _____ x 2 = ____ FAC species _____ x 3 = ___ FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ П Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 5 = Total Cover Dominance Test is >50% Shrub Stratum (Plot size: 1. Callicarpa americana 5 × FACU Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation¹ (Explain) П ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. П **Definitions of Vegetation Strata:** Tree - Woody plants, excluding woody vines, = Total Cover approximately 20 ft (6 m) or more in height and 3 in. Herb Stratum (Plot size: ___ (7.6 cm) or larger in diameter at breast height (DBH). 1 Arundinaria gigantea 10 × FACW Sapling - Woody plants, excluding woody vines, 2 Asplenium platyneuron FACU П approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, П approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. = Total Cover Woody Vine Stratum (Plot size: _____) × FAC 1 Smilax rotundifolia 10 2. Toxicodendron radicans FAC Hydrophytic Vegetation 11 = Total Cover Yes X No Present? Remarks: (If observed, list morphological adaptations below)

	Matrix		Redo	x Feature						
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 4	2.5Y5/2	100					S. Loam	Sandy Lo	am	
4 - 15	2.5Y6/4	100					S. Loam	Sandy Lo	am	
,										
							=			
Type: C=C	oncentration, D=De	enletion RM=F	Peduced Matrix CS	S=Covered	d or Coated	I Sand G	rains ² l o	ocation: PL=F	Pore Lining	M-Matrix
Hydric Soil		epietion, rawi-i	reduced Matrix, Co	3-Covered	J OI COALEC	Janu G		for Problem		
Histosol			Polyvalue Be	low Surfa	ce (S8) (I F	RSTI		Muck (A9) (LF		
	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S. T	: U)		Muck (A10) (L		
	istic (A3)		Loamy Muck							MLRA 150A,E
	en Sulfide (A4)		Loamy Gleye				Section 1) (LRR P, S, T
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)				alous Bright L		
Organic	Bodies (A6) (LRR	P, T, U)	Redox Dark				L (ML	RA 153B)		
5 cm Mu	ucky Mineral (A7) (I	LRR P, T, U)	Depleted Da	rk Surface	(F7)			arent Materia		
Muck Pr	resence (A8) (LRR	U)	Redox Depre		8)		☐ Very S	Shallow Dark	Surface (TF	12) (LRR T, U)
THE REAL PROPERTY.	ick (A9) (LRR P, T		Marl (F10) (L				U Other	(Explain in Re	emarks)	
	d Below Dark Surfa	ace (A11)	Depleted Oc				_ 1			
	ark Surface (A12)		Iron-Mangan					cators of hydr		
	rairie Redox (A16)					U)		tland hydrolog		
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric			A 450D)		ess disturbed	or problema	atic.
	Sleyed Matrix (S4) Redox (S5)		Reduced Ve							
The state of the s	Matrix (S6)						19A) RA 149A, 153C	4520)		
	rface (S7) (LRR P,	STIN	Anomaious E	night Luai	Try Solis (F.	ZU) (WILK	A 149A, 155C	, 1930)		
	Layer (if observed						1			
Type:	.,	7.								
							Hydric Soil	Present?	Yes C	No 🗵
	ches):						Try arro do		100	. 10
Depth (inc	ches):						THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			
	ches):									
Depth (inc	ches):									
Depth (inc	ches):									
Depth (inc	ches):									
Depth (inc	ches):									
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Depth (inc	ches):									
Depth (inc	ches):									
Depth (inc	ches):									
Depth (inc	ches):									
Depth (inc	ches):									
Depth (inc										
Depth (inc	ndicators not pr	resent.								
Depth (inc		resent.								
Depth (inc		resent.								
Depth (inc		resent.								
Depth (inc		resent.								
Depth (inc		resent.								
Depth (inc		resent.								
Depth (inc		resent.								
Depth (inc		resent.								
Depth (inc		resent.								
Depth (inc		resent.								

Stream Feature Datasheet

Feature No.: I-2	Map No.: 3e	Feature ID.: 02int01N	Type: Intermittent		
Date Surveyed: 4/27/2011 County: McDuffie		Watershed: Brier			
8-Digit HUC1: 03060108		12-Digit HUC: 030601080102			
Acreage: 0.08		Length: 355 linear feet			
Substrate: Sand and Silt	Width2: 4.0 linear feet	Depth3: 0.5 foot			



HUC – U.S. Geological Survey Hydrologic Unit Code
Width was measured in linear feet from Ordinary High-water Mark (OHWM) to OHWM.
Depth was measured in feet from the OHWM to thalweg.

NCDWQ Stream Identification Data Collected Within the Corridor for the Proposed Thomson-Vogtle 500 kV Transmission Line.

<u>Date:</u> 4/27/11 <u>Project Site:</u> Thomson-Vogtle	Feature No:	I-2
Evaluator: MEN & MWW County: McDuffie, GA	Feature ID:	02int01N
Parameter	Scoring Category	Numerical Score
A. Geomorphology		
Continuity of bed and bank	Strong	3
2. Sinuosity of channel along thalweg	Moderate	2
3. In-channel structure: ex. riffle/pool sequence	Weak	1
4. Particle size of stream substrate	Weak	1
5. Active/relict floodplain	Absent	0
6. Depositional bars or benches	Absent	0
7. Recent alluvial deposits	Absent	0
8. Headcuts	Absent	0
9. Grade control	Absent	O
10. Natural valley or drainage way	Strong	1.5
11. 2 nd order channel on USGS or NRCS map? (Yes =3/No=0)	No	0
B. Hydrology		
12. Presence of Baseflow	Moderate	2
13. Iron oxidizing bacteria	Absent	О
14. Leaf litter	Absent	1.5
15. Sediment on plants or debris	Weak	0.5
16. Organic debris lines or piles	Weak	0.5
17. Soil-based evidence of high water table? (Yes =3/No=0)	Yes	3
C. Biology		
18. Fibrous roots in streambed	Absent	3
19. Rooted upland plants in streambed	Absent	3
20. Macrobenthos	Moderate	2
21. Aquatic mollusks	Absent	O
22. Fish	Absent	0
23. Crayfish	Strong	1.5
24. Amphibians	Strong	1.5
25. Algae	Moderate	1
26. Wetland plants in streambed (FACW=0.75; OBL=1.5; Other=0)	Other	o
Total Points:		28
Stream Type:		Intermittent

Prepared by: <u>MDH;</u> Date: <u>3/23/2012</u> Checked by: <u>MEN</u>: Date: <u>5/7/2012</u>

Stream Feature Datasheet

Feature No.: I-3	Map No.: 3e	Feature ID.: 02int02N	Type: Intermittent	
Date Surveyed: 4/27/2011 County: McDuffie		Watershed: Brier		
8-Digit HUC1: 03060108		12-Digit HUC: 030601080102 Length: 55 linear feet		
Acreage: 0.01				
Substrate: Sand and Silt	Width2: 5.0 linear feet	Depth3: 0.5 foot		



HUC – U.S. Geological Survey Hydrologic Unit Code
Width was measured in linear feet from Ordinary High-water Mark (OHWM) to OHWM.
Depth was measured in feet from the OHWM to thalweg.

NCDWQ Stream Identification Data Collected Within the Corridor for the Proposed Thomson-Vogtle 500 kV Transmission Line.

<u>Date:</u> 4/27/11 <u>Project Site:</u> Thomson-Vogtle	Feature No.:	I-3
Evaluator: MEN & MWW County: McDuffie, GA	Feature ID:	o2into2N
Parameter	Scoring Category	Numerical Score
A. Geomorphology		
Continuity of bed and bank	Moderate	2
2. Sinuosity of channel along thalweg	Moderate	2
3. In-channel structure: ex. riffle/pool sequence	Moderate	2
4. Particle size of stream substrate	Moderate	2
5. Active/relict floodplain	Weak	1
6. Depositional bars or benches	Weak	1
7. Recent alluvial deposits	Absent	0
8. Headcuts	Absent	0
9. Grade control	Absent	0
10. Natural valley or drainage way	Strong	1.5
11. 2 nd order channel on USGS or NRCS map? (Yes =3/No=0)	No	0
B. Hydrology		
12. Presence of Baseflow	Moderate	2
13. Iron oxidizing bacteria	Absent	0
14. Leaf litter	Absent	1.5
15. Sediment on plants or debris	Absent	0
16. Organic debris lines or piles	Absent	O
17. Soil-based evidence of high water table? (Yes =3/No=0)	Yes	3
C. Biology		
18. Fibrous roots in streambed	Absent	3
19. Rooted upland plants in streambed	Absent	3
20. Macrobenthos	Moderate	2
21. Aquatic mollusks	Absent	0
22. Fish	Weak	0.5
23. Crayfish	Strong	1.5
24. Amphibians	Strong	1.5
25. Algae	Absent	0
26. Wetland plants in streambed (FACW=0.75; OBL=1.5; Other=0)	Other	0
Total Points:		29.5
Stream Type:		Intermittent

Prepared by: <u>MDH;</u> Date: <u>3/23/2012</u> Checked by: <u>MEN</u>: Date: <u>5/7/2012</u>

Wetland Feature Datasheet

Feature No.: W-16		Feature ID.: Type: Forested, Scrub-Shru & Emergent		
Date Surveyed: 4/27/2011 County: McDuffie 8-Digit HUC¹: 03060108		Watershed: Brier		
		12-Digit HUC: 030601080201		
Total Acreage: 0.18		Forested Acreage: 0.03		

Dominant Vegetation: Acer rubrum, Alnus serrulata, Sambucus canadensis, Commelina virginica, Smilax rotundifolia



¹ HUC – U.S. Geological Survey Hydrologic Unit Code

P		+ 1	-		
-	rin	MT.	-0	rm	
10000			·		

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmis Applicant/Owner: Georgia Power Compa	sion Line	City/County: McD	ouffie Coun	ty	Sampling Date:	4/27/2011
Applicant/Owner: Georgia Power Compa	any		S	tate: GA	Sampling Point:	DP32 (W-16
Investigator(s): MEN, MWW		Section Townshir	Range:			
Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LRR P Soil Map Unit Name: WaC	Lat:	Local relief (conca	ave, convex, n	NWI classi	Slop Da fication: PSS1Ch	oe (%):
Are climatic / hydrologic conditions on the site Are Vegetation, Soil, or Hydrol Are Vegetation, Soil, or Hydrol SUMMARY OF FINDINGS – Attach	typical for this time of yellogy significantly logy naturally pr	ear? Yes	No (I Are "Normal ((If needed, ex	f no, explain in Circumstances xplain any ansv	Remarks.) " present? Yes vers in Remarks.)	× No _
Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye Wetland Hydrology Present? Ye Remarks:	s X No C	Is the Sam within a W	npled Area /etland?	Yes	× No C]
02wet10N						
Wetland Hydrology Indicators:				Secondary Indi	cators (minimum of	two required)
Primary Indicators (minimum of one is require	ed: check all that annly)		Ì		bil Cracks (B6)	two required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7	Water-Stained Aquatic Fauna Marl Deposits Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Re Thin Muck Sur	Leaves (B9) (B13) (B15) (LRR U) ide Odor (C1) ospheres on Living educed Iron (C4) eduction in Tilled Soface (C7)	oils (C6)	Sparsely V Drainage F Moss Trim Dry-Seaso Crayfish B Saturation Geomorph Shallow Ad	regetated Concave (B6) Lines (B10) Lines (B16) In Water Table (C2) For Water Table (C2) For Water Table (C2) For Water Table (D2) For Water Table (D2) For Water Table (D3) For Water Table (D3) For Water Table (D5)	
Water Table Present? Yes X	No Depth (inches	s): 8 0		drology Pres	ent? YesX	No
Remarks:						

VEGETATION – Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:) 1. Acer rubrum	<u>% Cover</u> 15	Species? Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)		
2.		一一	(1)		
3.			Total Number of Dominant Species Across All Strata: 6 (B)		
4			Species Across All Strata.		
5			Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/		
6					
7			Prevalence Index worksheet:		
	15 =	Total Cover	Total % Cover of:Multiply by:		
Sapling Stratum (Plot size:) Acer rubrum	5	ĭ FAC	OBL species x 1 =		
1. Acer rubrum 2. Liquidambar styraciflua	— 3 —— -	FAC	FACW species x 2 =		
2. Elquidambar styracilida 3. Alnus serrulata	<u> </u>		FAC species x 3 =		
			FACU species x 4 =		
1. <u> </u>			UPL species x 5 =		
5			Column Totals: (A) (E		
S		—— <u>Н</u> ———	Prevalence Index = B/A =		
7,	17 -		Hydrophytic Vegetation Indicators:		
No. 1. Object on (Blat along)	17=	Total Cover	Dominance Test is >50%		
Shrub Stratum (Plot size:) Alnus serrulata	5	▼ FACW			
Sambucus canadensis	— 2 — -	▼ FACW			
3			Froblematic hydrophytic vegetation (Explain)		
4			¹ Indicators of hydric soil and wetland hydrology must		
5.			be present, unless disturbed or problematic.		
5.			Definitions of Vegetation Strata:		
7.					
	7 =	Total Cover	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.		
Herb Stratum (Plot size:)		Total Cover	(7.6 cm) or larger in diameter at breast height (DBH).		
1. Carex lurida	5	OBL			
2. Boehmeria cylindrica	2	☐ FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less		
3. Glyceria striata	2	OBL OBL	than 3 in. (7.6 cm) DBH.		
Woodwardia areolata	4	OBL	Shrub – Woody plants, excluding woody vines,		
Athyrium filix-femina	4	☐ FAC	approximately 3 to 20 ft (1 to 6 m) in height.		
Arundinaria gigantea	5	FACW			
Sagittaria latifolia	2	OBL	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood		
Commelina virginica	25	▼ FACW	plants, except woody vines, less than approximately		
o			3 ft (1 m) in height.		
10.			Woody vine – All woody vines, regardless of height.		
11.					
2.		一百一			
2	49 =	Total Cover			
Noody Vine Stratum (Plot size:)		Total Cover			
Smilax rotundifolia	3	☐ FAC			
2.					
3. Harris III - T II - T II - T					
4.					
			Hydrophytic		
			Vegetation		
5	3 =	Total Cover	Present? Yes X No		

Sampling Point:	DP32

Depth	Matrix		Red	ox Features			
(inches)	Color (moist)	%	Color (moist)	% Type ¹ Loc		Rema	arks
) - 15	2.5Y7/2	100			S. Loam	Sandy Loam	
						-	
	_						
		pletion, RM=R	educed Matrix, C	S=Covered or Coated Sar		ocation: PL=Pore Lin	
	Indicators:		П			s for Problematic Hy	dric Soils ³ :
ᆜ Histoso	I (A1)		Polyvalue B	elow Surface (S8) (LRR S	T, U) 1 cm	Muck (A9) (LRR O)	
Histic E	pipedon (A2)			urface (S9) (LRR S, T, U)	2 cm	Muck (A10) (LRR S)	
Black H	istic (A3)			ky Mineral (F1) (LRR O)	Redu	ced Vertic (F18) (out:	side MLRA 150A,E
Hydroge	en Sulfide (A4)		Loamy Gley		Piedn	nont Floodplain Soils	(F19) (LRR P, S, T
	d Layers (A5)		■ Depleted Ma		Anom	nalous Bright Loamy S	Soils (F20)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark		L (ML	.RA 153B)	
	ucky Mineral (A7) (L		process.	ark Surface (F7)		Parent Material (TF2)	
	resence (A8) (LRR l	J)	Redox Depr			Shallow Dark Surface	
	uck (A9) (LRR P, T)		Marl (F10) (Other	(Explain in Remarks))
Deplete	d Below Dark Surfac	ce (A11)		chric (F11) (MLRA 151)			
	ark Surface (A12)			nese Masses (F12) (LRR (cators of hydrophytic	
	rairie Redox (A16) (ace (F13) (LRR P, T, U)		etland hydrology must	
	Mucky Mineral (S1) (LRR O, S)		(F17) (MLRA 151)		less disturbed or prot	olematic.
	Gleyed Matrix (S4)			ertic (F18) (MLRA 150A, 1			
	Redox (S5)			oodplain Soils (F19) (MLR			
	Matrix (S6)		Anomalous	Bright Loamy Soils (F20) (MLRA 149A, 1530	C, 153D)	
Dark St	rface (S7) (LRR P, S						
	Layer (if observed)	:					
		:					
Restrictive	Layer (if observed)				Hydric Soi	il Present? Yes	× No □
Restrictive Type:	Layer (if observed)	:			Hydric Soi	I Present? Yes	× No □
Restrictive Type: Depth (in	Layer (if observed)	:			Hydric Soi	il Present? Yes	× No □
Restrictive Type: Depth (in	Layer (if observed)				Hydric Soi	il Present? Yes	× No □
testrictive Type: Depth (in	Layer (if observed)				Hydric Soi	il Present? Yes	× No □
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	il Present? Yes	× No □
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No □
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No □
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	⊠ No □
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	⊠ No □
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	⊠ No_□
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	⊠ No_□
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No _
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No _
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No _
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No _
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No _
testrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No _
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No
testrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No
Restrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No
testrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No
Restrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No
Restrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	× No
estrictive Type: Depth (in	Layer (if observed)				Hydric Soi	Il Present? Yes	▼ No □

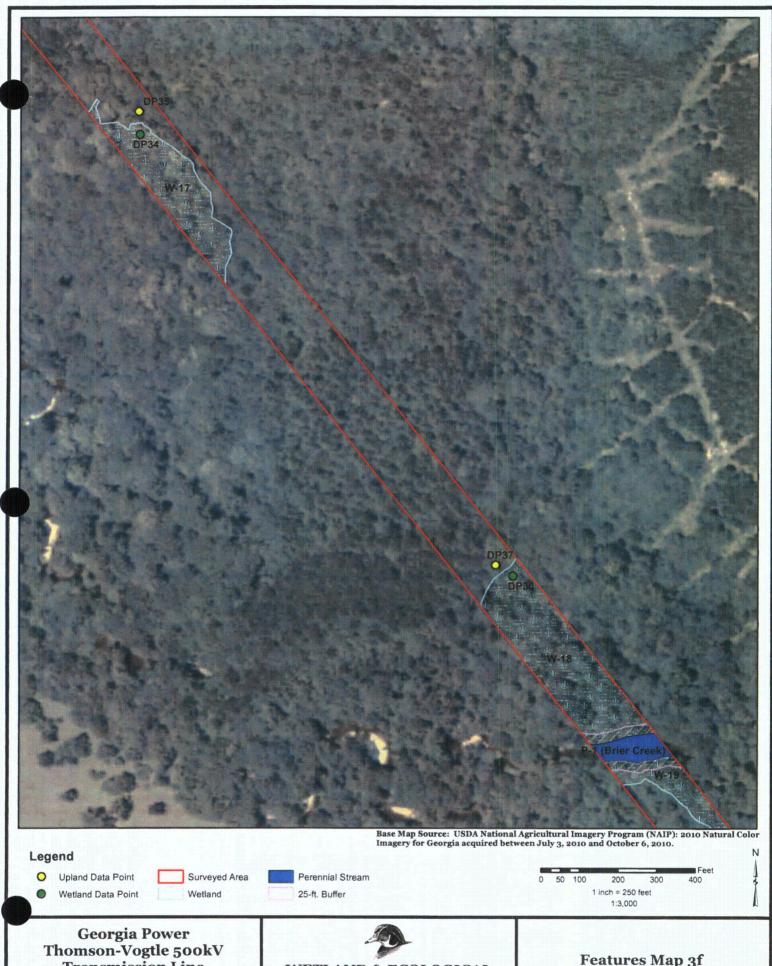
Print Form

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

State: GA Sampling Date: 4/27/2011 State: GA Sampling Point: DP33 (W-16) Ship, Range: Slope (%): Datum: Datum: NVVI classification: None No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No Ciff needed, explain any answers in Remarks.) Point locations, transects, important features, etc. Ampled Area Wetland? Yes No Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Secondary Indicators (minimum of two required) Secondary Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Slope (%): Long: NVI classification: NVI classification: No Oint locations, transects, important features, etc. ampled Area Wetland? Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) point locations, transects, important features, etc. ampled Area Wetland? Yes No Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Soils (C6) Soils (C6) Soils (C6) Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Present? Yes No X

	Absolute	Dominant Indicat	or Dominance Test worksheet:		
Tree Stratum (Plot size:) 1. Ulmus alata	<u>% Cover</u> 10	Species? Statu	i Number of Dominant Species		
2 Quercus nigra	15	▼ FAC	Matric OBE, 17000, 01170.		
3. Liquidambar styraciflua	10	▼ FAC	Total Number of Dominant		
			Species Across All Strata: 11 (B)		
4			Percent of Dominant Species		
5			That Are OBL, FACW, or FAC: 82% (A/B)		
6			Prevalence Index worksheet:		
7.					
	35	= Total Cover	Total % Cover of:Multiply by:		
Sapling Stratum (Plot size:)	5	ĭ FAC	OBL species x 1 =		
1. Quercus nigra 2 Ulmus alata		▼ FAC			
*	5		_ ''''		
3			FACU species x 4 =		
4		<u> </u>			
5			Column Totals: (A) (B)		
6					
7			Prevalence Index = B/A =		
	10	= Total Cover	Hydrophytic Vegetation Indicators:		
Shrub Stratum (Plot size:)			Dominance Test is >50%		
1. Quercus nigra	5	▼ FAC			
2. Vaccinium elliottii	4	▼ FAC	— , , , , , , , , , , , , , , , , , ,		
3. Ilex opaca	4	ĭ FAC			
4.			¹ Indicators of hydric soil and wetland hydrology must		
5.			be present, unless disturbed or problematic.		
6.		П	Definitions of Vegetation Strata:		
		The state of the s	Dominions of vegetation offata.		
7	13	Tatal Cause	Tree – Woody plants, excluding woody vines,		
Herb Stratum (Plot size:)		= Total Cover	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).		
1 Chasmanthium sessiliflorum	15	▼ FAC			
		prompt of the same	Sapling – Woody plants, excluding woody vines,		
2.			approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		
3		一十	_		
4.		— H	Shrub – Woody plants, excluding woody vines,		
5		—H—	approximately 3 to 20 ft (1 to 6 m) in height.		
6		— <u> </u> #	Herb – All herbaceous (non-woody) plants, including		
7			herbaceous vines, regardless of size. Includes woody		
8			plants, except woody vines, less than approximately 3 ft (1 m) in height.		
9					
10			Woody vine – All woody vines, regardless of height.		
11					
12.					
	15	= Total Cover			
Woody Vine Stratum (Plot size:)					
1. Smilax rotundifolia	2	FAC			
2. Parthenocissus quinquefolia	10	▼ FAC			
3. Vitis rotundifolia	2	FAC			
4 Lonicera japonica	5	▼ FAC			
5.		T T	Hydrophytic		
Beinger, Bereit	19	= Total Cover	─ Vegetation Present? Yes X No		
		Total Cover	100 100		
Remarks: (If observed, list morphological adaptations b	pelow).				

	cription: (Describ	e to the depth				or contiri	m the absence	e of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	x Feature %		Loc ²	Texture	Remarks
0 - 1	2.5Y4/2	100	Color (Illoist)		1700		S. Loam	Sandy Loam; Organic Rich
1 - 15	10YR6/6	100					S. Loam	Sandy Loam
	Concentration, D=De	epletion, RM=R	_				Indicator	ocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils³:
Histoso	I (A1)		Polyvalue Be	elow Surfa	ace (S8) (L	RR S, T,	U)	Muck (A9) (LRR O)
-	pipedon (A2)		Thin Dark St	urface (S9) (LRR S,	T, U)		Muck (A10) (LRR S)
	listic (A3)		Loamy Muck			0)		ced Vertic (F18) (outside MLRA 150A,E
	en Sulfide (A4)		Loamy Gleye		(F2)		1 1	nont Floodplain Soils (F19) (LRR P, S, T
STATE OF THE PARTY	d Layers (A5) Bodies (A6) (LRR	B T 11)	Depleted Ma		T6\			nalous Bright Loamy Soils (F20) . RA 153B)
many .	ucky Mineral (A7) (I		Depleted Da					Parent Material (TF2)
	resence (A8) (LRR		Redox Depre				The state of the s	Shallow Dark Surface (TF12) (LRR T, U
COLUMN TO THE PARTY OF THE PART	uck (A9) (LRR P, T		Marl (F10) (L		.,		general .	(Explain in Remarks)
Deplete	d Below Dark Surfa	ice (A11)	Depleted Oc					
	ark Surface (A12)		Iron-Mangan					cators of hydrophytic vegetation and
	Prairie Redox (A16)		Umbric Surfa			, U)		etland hydrology must be present,
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					less disturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
	Redox (S5) d Matrix (S6)						49A) RA 149A, 1530	2 (520)
	urface (S7) (LRR P,	S T III	Anomalous i	origini Lua	illy Solis (i	20) (WILI	NA 149A, 1550	5, 1990)
	Layer (if observed						1	
Type:	Layer (ii obcorred	"						
	ichos):		_				Hydric Soi	I Present? Yes No X
Depth (in	cnes).						nyaric Soi	Present? Yes No
lydric soil	indicators not pr	resent.						



Transmission Line Mcduffie and Warren Counties, Georgia



WETLAND & ECOLOGICAL CONSULTANTS, LLC Woodstock, Georgia

Features Map 3f WEC Project No. 02-050508

Wetland Feature Datasheet

eature No.: W-17 Map No.: 3f		Feature ID.: 02wet11N Type: Forested		
Date Surveyed: 4/27/2011 County: McDuffie		Watershed: Brier		
8-Digit HUC1: 03060108		12-Digit HUC: 030601080201		
Total Acreage: 1.11		Forested Acreage: 1.11		

Dominant Vegetation: Betula nigra, Magnolia virginiana, Fagus grandifolia, Ilex opaca, Arundinaria gigantea, Lonicera japonica



¹ HUC – U.S. Geological Survey Hydrologic Unit Code

Print Form

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmission Line	City/County McDuffie County Sampling Date: 4/27/2011
Applicant/Owner: Georgia Power Company	City/County: McDuffie County Sampling Date: 4/27/2011 State: GA Sampling Point: DP34 (W-17
Investigator(s): MEN, MWW	Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%): Long: Datum: NWI classification: PF01A year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantl Are Vegetation, Soil, or Hydrology naturally p	ly disturbed? Are "Normal Circumstances" present? Yes No
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes X No C No	Is the Sampled Area within a Wetland? Yes No
02wet11N HYDROLOGY	
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Aquatic Fauna Marl Deposits Oxidized Rhiz Recent Iron R Thin Muck Su	Sparsely Vegetated Concave Surface (B8) a (B13) b (B15) (LRR U) Iffide Odor (C1) cospheres on Living Roots (C3) Reduced Iron (C4) Reduction in Tilled Soils (C6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Surface Water Present? Yes No No Depth (inches	wetland Hydrology Present? Yes No D
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)

Sapling Stratum (Plot size:

1. Betula nigra

1. Ilex opaca

2. Nyssa sylvatica

4. Fagus grandiflora

3. Magnolia virginiana

Sampling Point: DP34 Absolute Dominant Indicator Dominance Test worksheet: Number of Dominant Species × FACW That Are OBL, FACW, or FAC: ____(A) Total Number of Dominant X FACW 5 _____(B) Species Across All Strata: × FACU Percent of Dominant Species 80% (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____

2.			FAC species	x 3 =
3.			FACU species	x 4 =
4.				x 5 =
5.				(A) (B)
6.				
7.			Prevalence Index =	B/A =
	20	= Total Cover	Hydrophytic Vegetation	Indicators:
Shrub Stratum (Plot size:)		- Total Covel	➤ Dominance Test is >5	50%
1.			Prevalence Index is ≤	3.0 ¹
2.			Problematic Hydrophy	tic Vegetation¹ (Explain)
3.				
4.			¹ Indicators of hydric soil a	nd wetland hydrology must
5			be present, unless disturb	
6		T a to the second	Definitions of Vegetation	Strata:
		TH-	Deminitions of Vegetation	i Otrata.
7			Tree - Woody plants, exc	
Herb Stratum (Plot size:)		= Total Cover	approximately 20 ft (6 m)	or more in height and 3 in. eter at breast height (DBH).
1 Arundinaria gigantea	15	▼ FACW	(7.0 cm) or larger in diame	ater at breast neight (DDF).
2 Athyrium filix-femina	2	FAC	Sapling – Woody plants,	
3 Woodwardia areolata	4	OBL	approximately 20 ft (6 m) than 3 in. (7.6 cm) DBH.	or more in height and less
Osmunda cinnamomea	1	FACW		
* 		— H · · · · · ·	Shrub – Woody plants, ex	
5			approximately 3 to 20 ft (1	to 6 m) in neight.
6		— <u></u>		on-woody) plants, including
7		—H—	herbaceous vines, regardle plants, except woody vine	ess of size. Includes woody
8			3 ft (1 m) in height.	s, less than approximately
9		— <u></u>	l	
10			Woody vine – All woody v	vines, regardless of height.
11				
12				
	22 .	= Total Cover		
Woody Vine Stratum (Plot size:)	0	-		
1. Lonicera japonica	_ 2	FAC		
2				
3				
4			l	
5			Hydrophytic Vegetation	
	2	= Total Cover	Present? Yes_	X No□
Remarks: (If observed, list morphological adaptations be	elow).			
US Army Corps of Engineers			Atlantic and Gulf Coastal Pl	ain Region – Interim Version

% Cover Species? Status

= Total Cover

FAC

× FAC

5

10

10

20

Depth	Matrix		Red	ox Feature:							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture		Rema	rks	
- 15	2.5Y3/1	100					S. Loam	Sandy lo	am		
vne: C=0	Concentration, D=De	pletion RM=F	Reduced Matrix C	S=Covered	or Coate	d Sand Gr	ains ² L	ocation: PL=	Pore Lini	na M=N	1atrix
	I Indicators:		-					for Problem			
Histoso	ol (A1)		Polyvalue B	elow Surfa	ce (S8) (L	RR S, T, L	J) 1 cm	Muck (A9) (L	RR 0)		
N .	Epipedon (A2)		Thin Dark S					Muck (A10) (
9	Histic (A3)		Loamy Mucl			(0)	1	ced Vertic (F			
	gen Sulfide (A4) ed Layers (A5)		Loamy Gley Depleted Ma		F2)			nont Floodpla alous Bright			
1	c Bodies (A6) (LRR F	P. T. U)	Redox Dark		6)			RA 153B)	Luarry S	olis (FZC	")
	lucky Mineral (A7) (L		Depleted Da					arent Materi	al (TF2)		
Muck F	Presence (A8) (LRR I	U)	Redox Depr		3)		☐ Very S	Shallow Dark	Surface	(TF12)	LRR T, I
	luck (A9) (LRR P, T)		Marl (F10) (Other	(Explain in F	Remarks)		
	ed Below Dark Surface	ce (A11)	Depleted Oc				T) 31				
	Dark Surface (A12) Prairie Redox (A16) (MI RA 150A)	Iron-Mangar	ace (F13) (IRRPT	LKK U, P, III		cators of hyd tland hydrolo			
-	Mucky Mineral (S1) (Delta Ochric	(F17) (ML	RA 151)	, 0,		less disturbe	- 		21 IL,
	Gleyed Matrix (S4)		Reduced Ve			0A, 150B)					
	Redox (S5)		Piedmont FI								
_	d Matrix (S6)		Anomalous	Bright Loar	ny Soils (l	F20) (MLR	A 149A, 1530	c, 153D)			
I Dark S	urface (S7) (LRR P,										
	Laver (if observed)										
estrictive	Layer (if observed)	1:					1				
estrictive Type:							Hydric Soi	I Present?	Yes	×	ю [
estrictive							Hydric Soi	I Present?	Yes	×	lo [
Type: Depth (in			_				Hydric Soi	I Present?	Yes	×	lo
Type: Depth (in							Hydric Soi	I Present?	Yes	×	юС
Type: Depth (in							Hydric Soi	I Present?	Yes	× N	lo
strictive Type: Depth (in							Hydric Soi	I Present?	Yes	×	lo <u> </u>
strictive Type: Depth (in							Hydric Soi	I Present?	Yes	×	lo <u> </u>
strictive Type: Depth (in								I Present?	Yes	× h	lo <u> </u>
strictive Type: Depth (in							Hydric Soi	I Present?	Yes	× N	
strictive Type: Depth (in								I Present?	Yes	× N	<u> </u>
strictive Type: Depth (in								I Present?	Yes	× N	lo <u> </u>
strictive Type: Depth (in								I Present?	Yes	X N	<u> </u>
strictive Type: Depth (in	nches):							I Present?	Yes	× N	<u> </u>
strictive Type: Depth (in	nches):							I Present?	Yes	× N	<u> </u>
Type: Depth (in	nches):							I Present?	Yes	× N	<u> </u>
Type: Depth (in	nches):									× N	lo <u> </u>
strictive Type: Depth (in	nches):							I Present?		X N	lo <u> </u>
Type: Depth (in	nches):									× N	lo <u> </u>
Type: Depth (in	nches):									× N	lo <u> </u>
Type: Depth (in	nches):									× N	lo <u> </u>
Type: Depth (in	nches):									× N	lo <u> </u>
strictive Type: Depth (in	nches):									× N	lo <u> </u>
Type: Depth (in	nches):									× N	lo <u> </u>

Print Form

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmissio	n Line Cit	v/County: McDuffie Cou	unty	Sampling Date: 4/27/2011
Project/Site: Thomson-Vogtle Transmissio Applicant/Owner: Georgia Power Company	,	, ,	State: GA	Sampling Point: DP35 (W-17
Investigator(s): MEN, MWW	Se	ection, Township, Range:		
Landform (hillslope, terrace, etc.):	Lat: Lo	cal relief (concave, convex Long: Yes No	, none): NWI class (If no, explain ir	Slope (%): Datum: ification: n Remarks.)
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology				
SUMMARY OF FINDINGS – Attach si	te map showing s	ampling point locati	ons, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Yes _ Hydric Soil Present? Yes _ Wetland Hydrology Present? Yes _ Remarks:	No X	Is the Sampled Area within a Wetland?	Yes	□ No <u>×</u>
upland from 02wet11N				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of one is required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Water-Stained Lea Aquatic Fauna (B Marl Deposits (B1 Hydrogen Sulfide Oxidized Rhizospl Presence of Redu	(3) (5) (LRR U) Odor (C1) heres on Living Roots (C3) ced Iron (C4) ction in Tilled Soils (C6) c (C7)	Surface S Sparsely \ Drainage \ Moss Trim Dry-Seaso Crayfish B Saturation Geomorph Shallow A	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10) In Lines (B16) on Water Table (C2) Furrows (C8) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Water Table Present? Yes No _	Depth (inches): _	Wetland	Hydrology Pres	sent? Yes No X
Hydrologic indicators not present.				

VEGETATION – Use scientific names of plants.

1. Liquidambar styraciflua 5 2. Carya alba 5 3. Carya sp. 5 4		= Total C	FA N// N// N// Over	AC /A	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A Total Number of Dominant Species Across All Strata: 6 (B Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A Prevalence Index worksheet:
2 Carya alba 5 3 Carya sp. 5 4.		= Total C	over	AC	Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species FACW species FACU species VA = UPL species Column Totals: Column Totals: Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index worksheet: Total % Cover of: Multiply by: Multiply by: Multiply by: A =
Sapling Stratum (Plot size:)		= Total C	over	AC	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A Prevalence Index worksheet:
Sapling Stratum (Plot size:) Shrub Stratum (Plot size:) Ilex opaca		= Total C	over	AC	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A Prevalence Index worksheet:
Shrub Stratum (Plot size:) Shrub Stratum (Plot size:) Ilex opaca		= Total C	over		That Are OBL, FACW, or FAC: 100% (A Prevalence Index worksheet:
Sapling Stratum (Plot size:) Shrub Stratum (Plot size:) Ilex opaca			over		That Are OBL, FACW, or FAC: 100% (A Prevalence Index worksheet:
Sapling Stratum (Plot size:) Shrub Stratum (Plot size:) Ilex opaca			over		Prevalence Index worksheet:
Sapling Stratum (Plot size:) Shrub Stratum (Plot size:) Illex opaca		C C C C C C C C C C C C C C C C C C C	over		Total % Cover of: OBL species
Shrub Stratum (Plot size:) Shrub Stratum (Plot size:) Illex opaca		C C C C C C C C C C C C C C C C C C C	over		OBL species x 1 =
Shrub Stratum (Plot size:) Shrub Stratum (Plot size:) Ilex opaca		C C C C C C C C C C C C C C C C C C C	over		FACW species x 2 =
Shrub Stratum (Plot size:) Ilex opaca		E Total Co	₹ FA		FAC species x 3 =
Shrub Stratum (Plot size:) Ilex opaca		E Total Co	₹ FA		FAC species x 3 =
Shrub Stratum (Plot size:) Ilex opaca			₹ FA		FACU species x 4 = UPL species x 5 = Column Totals: (A) (I) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Shrub Stratum (Plot size:) Ilex opaca	= = 		₹ FA		UPL species x 5 =
Shrub Stratum (Plot size:) Illex opaca 10 Quercus michauxii 5		E Total Co	₹ FA		Column Totals: (A) (I) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: X Dominance Test is >50% Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Shrub Stratum (Plot size:) Ilex opaca	_ _ _ _	Total Co	₹ FA		Prevalence Index = B/A =
Shrub Stratum (Plot size:) Ilex opaca	 	Total Co	₹ FA		Hydrophytic Vegetation Indicators: ☑ Dominance Test is >50% ☐ Prevalence Index is ≤3.0¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Illex opaca 10 Quercus michauxii 5	*		₹ FA		Hydrophytic Vegetation Indicators: ☑ Dominance Test is >50% ☐ Prevalence Index is ≤3.0¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
hrub Stratum (Plot size:) Ilex opaca 10 Quercus michauxii 5			₹ FA		□ Dominance Test is >50% □ Prevalence Index is ≤3.0¹ □ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Ilex opaca 10 Quercus michauxii 5					Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology musi
Quercus michauxii 5					Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology musi
					¹ Indicators of hydric soil and wetland hydrology must
·					
			<u> </u>		
]		
					be present, unless disturbed or problematic.
		L]		Definitions of Vegetation Strata:
·			1		
15		Total Co	=		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)		- Total Ct	vei		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)
Rubus argutus 2] FA	ACU	
Chasmanthium sessiliflorum 20			FA	AC.	Sapling – Woody plants, excluding woody vines,
Panicum anceps 2		Ī	FA	AC.	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
		Ť	i —		
•		- F	=		Shrub – Woody plants, excluding woody vines,
· <u></u>			╡		approximately 3 to 20 ft (1 to 6 m) in height.
•			╡		Herb - All herbaceous (non-woody) plants, including
			╡		herbaceous vines, regardless of size. Includes wood
			ַ		plants, except woody vines, less than approximately 3 ft (1 m) in height.
					o it (1 m) in neight.
0]		Woody vine - All woody vines, regardless of height.
1]		
2.			7		
24		Total Co	=		
Voody Vine Stratum (Plot size:)		TOTAL CO	7461		
Vitis rotundifolia 5		5	FA	AC	
Parthenocissus quinquefolia 5		7			
		Ť	1		
			╡		
·			╣		Hydrophytic
		L			Vegetation
10	=	Total Co	ver		Present? Yes X No
Pomarks: (If observed, list marphological adaptations below)					
emarks: (If observed, list morphological adaptations below). Decies with "N/A" indicator status were not used in	the c	dominar	nce ca	alcula	ition.

SOIL

Sampling Point: DP35 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Loc2 Texture Remarks Type ' 0 - 3 2.5Y4/1 100 S. Loam Sandy Loam 100 3 - 15 2.5Y5/4 S. Loam Sandy Loam ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) Histic Epipedon (A2) 2 cm Muck (A10) (LRR S) Loamy Mucky Mineral (F1) (LRR O) Black Histic (A3) Reduced Vertic (F18) (outside MLRA 150A,B) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Piedmont Floodplain Soils (F19) (LRR P, S, T) Depleted Ivialia (F6)
Redox Dark Surface (F6) Stratified Layers (A5) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) (MLRA 153B) Depleted Dark Surface (F7) 5 cm Mucky Mineral (A7) (LRR P, T, U) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, U) Muck Presence (A8) (LRR U) Redox Depressions (F8) 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) Iron-Manganese Masses (F12) (LRR O, P, T) Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, Delta Ochric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Hydric Soil Present? Yes Depth (inches): Hydric soil indicators not present.

Wetland Feature Datasheet

Feature No.: W-18	Map No.: 3f	Feature ID.: 02wet012N	Type: Forested		
Date Surveyed: 4/27/2011 County: McDuffie		Watershed: Brier			
8-Digit HUC1: 03060108		12-Digit HUC: 030601080201			
Total Acreage: 1.81		Forested Acreage	: 1.81		

Dominant Vegetation: Fagus grandifolia, Ilex opaca, Quercus nigra, Carpinus caroliniana, Ilex opaca, Ligustrum sinense, Liquidambar styraciflua, Microstegium vimineum, Lonicera japonica, Smilax rotundifolia, Toxicodendron radicans



¹ HUC – U.S. Geological Survey Hydrologic Unit Code

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WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Wetland Hydrology Present? Remarks: 02wet12N HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Wetland Hydrology Indicators (minimum of one is required; check all that apply) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16)	Slope (%):
Investigator(s): MEN, MWW Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR or MLRA): LRR P Lat: Long: NWI classification: PEMI. Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology aignificantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Shallow Aquitard (D3)	Secondary Indicators (minimum of two required) Secondary Indicators (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR or MLRA): LRR P Lat: Long: Long: NWI classification: PEMI. Soil Map Unit Name: WhB, Ck (hydric) NWI classification: PEMI. No Climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Surface Soil Cracks (B6) Sparsely Vegetated Conce Surface Water (A1) Aquatic Fauna (B13) Surface Water (A1) Aquatic Fauna (B13) Saturation (A3) Aquatic Fauna (B13) Mar Deposits (B15) (LRR U) Moss Trim Lines (B16) Dry-Season Water Table (Caption of Dry-Se	Slope (%): g:
Subregion (LRR or MLRA): LRR P Lat: Long: Soil Map Unit Name: WhB, Ck (hydric) NWI classification: PEMI. Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation No Hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation No Hydrology Inaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important Hydrophytic Vegetation Present? Yes No Significantly disturbed? Attach site map showing sampling point locations, transects, important Hydrophytic Vegetation Present? Yes No Significantly within a Wetland? Yes No Significantly disturbed? Attach site map showing sampling point locations, transects, important Hydrophytic Vegetation Present? Yes No Significantly within a Wetland? Yes No Significantly Significantly No Significantly	NWI classification: PEMIA, PF01A If no, explain in Remarks.) If no, explain any answers in Remarks.) If no, explain in Remarks.)
Soil Map Unit Name: WhB, Ck (hydric) Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? Are Vegetation Soil or Hydrology naturally problematic? Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks (NVI classification: PEMIA, PF01A (If no, explain in Remarks.) primal Circumstances" present? Yes No led, explain any answers in Remarks.) ations, transects, important features, etc rea Yes No Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important Hydrophytic Vegetation Present? Yes No Summary No	Light (If no, explain in Remarks.) Immal Circumstances" present? Yes No Remarks.) In ations, transects, important features, etc. In ations, transects, important features,
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important Hydrophytic Vegetation Present? Yes No Sister Sampled Area Within a Wetland? Yes No Sister Sampled Area Within a Wetland? Yes No Surface Water (A1) Surface Water (A1) Aquatic Fauna (B13) Surface Water (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16) Moss Trim Lines (B16) Saturation (A3) Sediment Deposits (B3) Presence of Reduced Iron (C4) Aquatic To Reduction in Tilled Soils (C6) Shallow Aquitard (D3) Shallow Aquitard (D3)	Light (If no, explain in Remarks.) Immal Circumstances" present? Yes No Remarks.) In ations, transects, important features, etc. In ations, transects, important features,
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Are Vegetation	secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: O2wet12N	secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: O2wet12N Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Is the Sampled Area within a Wetland? Is the Sampled Area within a Wetland? Ves No Is the Sampled Area within a Wetland? Ves No No Is the Sampled Area within a Wetland? Ves No No Is the Sampled Area within a Wetland? Ves No No No Is the Sampled Area within a Wetland? Ves No No No No No Is the Sampled Area within a Wetland? Ves No	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
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Hydric Soil Present? Wetland Hydrology Present? Remarks: D2wet12N	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
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High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16) Dry-Season Water Table (Coxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Spatially Vegetated of Note	Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Saturation (A3) Marl Deposits (B15) (LRR U) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Marl Deposits (B15) (LRR U) Moss Trim Lines (B16) Dry-Season Water Table (Coxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) Thin Muck Surface (C7) Shallow Aquitard (D3)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Dry-Season Water Table (C7) Saturation Visible on Aeria Geomorphic Position (D2) Shallow Aquitard (D3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Saturation Visible on Aeria Geomorphic Position (D2) Shallow Aquitard (D3)	Provide the second seco
Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Saturation Visible on Aeria Geomorphic Position (D2) Shallow Aquitard (D3)	Craylish Burlows (Co)
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Shallow Aquitard (D3)	Saturation Visible on Agric Imagen, (CO)
Iron Deposits (B5)	
Field Observations:	= 1710 Health Feet (Be)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes Depth (inches): Wetland Hydrology Present? Yes	
(includes capillary fringe)	nd Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	nd Hydrology Present? Yes X No X
Remarks:	

١	/EGETA	TION -	Use	scientific	names	of	plants.
			000	OCICITATIO	Harrico	U !	piarito.

	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover 10	Species?		Number of Dominant Species
Fagus grandiflora			FACU	That Are OBL, FACW, or FAC: 11 (A)
2. Ilex opaca	10		FAC	Total Number of Dominant
3. Quercus nigra	15	×	FAC	Species Across All Strata: 12 (B)
4				Descript of Description (Constitution
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 92% (A/B
3. <u>— 11. 14. 14. 14. 14. 14. 14. 14. 14. 14.</u>				That Ale OBE, I AOW, OT AC (AB
7.				Prevalence Index worksheet:
	35	= Total Cov		Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)		- 10(a) 001	CI	OBL species x 1 =
Carpinus caroliniana	5	×	FAC	FACW species x 2 =
llex opaca	5	×	FAC	FAC species x 3 =
3.				FACU species x 4 =
		一百		UPL species x 5 =
1.		一片		
š				Column Totals: (A) (B)
S				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	10 =	= Total Cov	er	Dominance Test is >50%
Shrub Stratum (Plot size:)	4		E40	
Ligustrum sinense	4		FAC	Prevalence Index is ≤3.0 ¹
llex opaca	5	×	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
Liquidambar styraciflua	3	×	FAC	
				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
		П		Definitions of Vegetation Strata:
)		一百		Definitions of Vegetation Strata.
'	12 -			Tree – Woody plants, excluding woody vines,
Josh Stratum (Diataire)	=======================================	Total Cov	er	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size:) Parthenocissus quinquefolia	3	П	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
Boehmeria cylindrica	— 1	- 님	FACW	Sapling – Woody plants, excluding woody vines,
	- 1		FAC	approximately 20 ft (6 m) or more in height and less
Microstegium vimineum	— 12	×		than 3 in. (7.6 cm) DBH.
Athyrium filix-femina	<u> </u>	ᆜᆜ	FAC	Shrub – Woody plants, excluding woody vines,
Rubus argutus	3		FACU	approximately 3 to 20 ft (1 to 6 m) in height.
)				Herb – All herbaceous (non-woody) plants, including
				herbaceous vines, regardless of size. Includes woody
				plants, except woody vines, less than approximately
				3 ft (1 m) in height.
		一市		Woody vine – All woody vines, regardless of height.
0				The same same same same same same same sam
1	— ———	ㅡ믐		
2		⊔		
	21 =	Total Cove	er	
Voody Vine Stratum (Plot size:)		CO.	EAC	
Lonicera japonica	_ 8	×	FAC	
Smilax rotundifolia	6	×	FAC	
Toxicodendron radicans	4	×	FAC	
Campsis radicans	2		FAC	
				Hydrophytic
	20 =			Present? Yes X No X
	20 _	Total Cove	or	Present/ YAS I'M NA I'M

SOIL

	Depth	Matrix		Red	ox Features	S			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. Total Covered Covered or Coaled Sand Grains. Total Covered Covered Covered or Coaled Sand Grains. Total Covered Covered Covered or Coaled Sand Grains. Total Covered Covered Covered Covered or Coaled Sand Grains. Total Covered Covered Covered Covered or Coaled Sand Grains. Total Covered Co	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Hydrogen Sulfide (A6) Hydrogen Sulfide (A7) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F2) Depleted Matrix (F3) Hydrogen Sulfide (A7) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (A8) LCRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (A7) Depleted Delow Dark Surface (A12) Coast Prairie Redox (A16) Piedmont Floodplain Soils (F19) (LRR O, P, T) Depleted Below Dark Surface (A12) Depleted Delow Dark Surface (A17) Thick Dark Surface (A17) Depleted Below Dark Surface (A18) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Mata Point was taken within the floodplain of Brier Creek approximately 4 miles downstream of the Southern Outer Piedmont) - 18	2.5Y4/1	100					Si. Loam	Silt loam
Histic Epipedon (A2) Histic Epipedon (F19) (LRR O, U) Histic Epipedon (F19) (LRR P, I, U) Histic Epipedon (F10) (LRR P, I, U)									
Histic Epipedon (A2) Histic Epipedon (F19) (LRR O, U) Histic Epipedon (F19) (LRR P, I, U) Histic Epipedon (F10) (LRR P, I, U)									
Histos (A1)									
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F2) Depleted Matrix (F3) Nuck Presence (A8) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Stripped Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): ### Apoint was taken within the floodplain of Brier Creek approximately 4 miles downstream of the Southern Outer Piedmont Surface (A12) ### Apoint was taken within the floodplain of Brier Creek approximately 4 miles downstream of the Southern Outer Piedmont Surface (A12) ### Apoint was taken within the floodplain of Brier Creek approximately 4 miles downstream of the Southern Outer Piedmont Ou									
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Histosol (A1) Histic Epipedon (A2) Loamy Mucky Mineral (F1) (LRR O) Loamy Gieyed Matrix (F2) Depleted Matrix (F3) Redox Depressions (F6) Redox Depressions (F8) Horrivo (A8) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Micky Mineral (S1) (LRR O, S) Sandy Micky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Evertrictive Layer (if observed): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes No Histic Epipedon (A2) I cm Muck (A9) (LRR P, C) Pick Mucky Mineral (S1) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Delox Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Dark Surface (A12) Unrobric Surface (F13) (LRR P, T, U) Depleted Dark Surface (A12) Unrobric Surface (pletion, Rivi=R	educed Matrix, C	S=Covered	or Coate	d Sand G		
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Sometime of the Mucky Mineral (A7) (LRR P, T, U) Howke Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Depleted Below Dark Surface (A17) Thick Dark Surface (A17) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (A5) Sandy Redox (A5) Dark Surface (F17) Sandy Gleyed Matrix (S6) Dark Surface (S7) Loamy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depleted Dark Surface (F17) Muck (A10) (LRR S, Reduced Vertic (F18) (ulra S, Piedmont Floodplain Soils (F19) (LRR P, S, Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, Under (Explain in Remarks) Depleted Ochric (F11) (MLRA 151) Trick Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) Depleted Ochric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 150A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Trick Dark Surface (S7) (LRR P, S, T, U) Redox Dark Surface (S7) (LRR P, S, T, U) Redox Dark Surface (F13) Unbric Surface (F13) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Trick Dark Surface (S7) (LRR P, S, T, U) Redox Dark Surface (S7) (LRR P, S, T, U) Redox Dark Surface (S1) (LRR O, P, T) Umbric Surface (F13) (MLRA 150A) Umbric Surface (F13) (MLRA 150A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Trick Dark Surface (S1) (LRR O, P, T) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) Redox Dark Surface (T5) (MLRA 153B) Redox Dark Surface (F13) (LRR O, P, T) Umbric Surface (F13) (MLRA 150A) Undrick Dark Surface (T518) (MLRA 150A) North Surface (S1) (LRR O, P, T) Umbric Surface (S1) (LRR O, P, T) Undrick Dark Surface (S1) (LRR O, P,				Π					
Black Histic (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) Redox Dark Surface (F7) Redox Depressions (F8) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Perent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, U) Depleted Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): De	manual Committee of the			Polyvalue B	elow Surfa	ce (S8) (L	RR S, T,		
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Depth ted Matrix (A1) Depth ted Orbin (F11) (MLRA 150A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) At Anomalous Bright Loamy Soils (F20) Muck Present (A8) (LRR P, S, Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, I) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Piedmont Floodplain Soils (F10) (MLRA 151) The Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, II) Other (Explain in Remarks) Other (Explain in Remarks) Piedmont Floodplain Soils (F10) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, II) Other (Explain in Remarks) Piedmont Floodplain Soils (F10) Muka 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, II) Unbric Surface (F13) (LRR P, T, II) Very Shallow Dark Surface (TF12) (LRR T, II) Unbric Surface (F13) (LRR P, T, II) Very Shallow Dark Surface (TF12) (LRR T, II) Very Shallow	Property								
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Sorm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F6) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Redox Depressions (F8) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Depleted Ochric (F13) (LRR P, T, U) Delta Ochric (F13) (LRR P, T, U) Delta Ochric (F13) (LRR P, T, U) Delta Ochric (F13) (MLRA 150A) Sardy Redox (S5) Stripped Matrix (S6) Depleted Ochric (F13) (LRR P, T, U) Delta Ochric (F13) (MLRA 150A) Sandy Redox (S5) Stripped Matrix (S6) Depleted Corric (F13) (LRR P, T, U) Depleted Depleted Rate (F12) Depleted Depleted Depleted Rate (F12) Depleted Depleted Depleted Rate (F12) Depleted Depleted Depleted Rate (F12) D	man and a second						(O)		
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Stripped Matrix (S6)	Sandy	Gleyed Matrix (S4)							
Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No Image: No	Sandy	Redox (S5)		Piedmont FI	oodplain S	oils (F19)	(MLRA 1	49A)	
Type: Depth (inches): Hydric Soil Present? Yes No Tomarke: ata Point was taken within the floodplain of Brier Creek approximately 4 miles downstream of the Southern Outer Piedmont	Strippe	d Matrix (S6)		Anomalous	Bright Loar	ny Soils (-20) (MLF	RA 149A, 1530	C, 153D)
Type:	Dark St	urface (S7) (LRR P,	S, T, U)						
Depth (inches): Hydric Soil Present? Yes No	Restrictive	Layer (if observed)):						
ata Point was taken within the floodplain of Brier Creek approximately 4 miles downstream of the Southern Outer Piedmont	Type:			_				1 7	
ata Point was taken within the floodplain of Brier Creek approximately 4 miles downstream of the Southern Outer Piedmont	Depth (ir	nches):						Hydric Soi	Present? Yes 🗵 No 🔲
ata Point was taken within the floodplain of Brier Creek approximately 4 miles downstream of the Southern Outer Piedmont								1 -	
	tomarno.								
				oin of Prior Cro	ok annro	imatoh	4 miles	downstream	of the Couthorn Outer Diadmont
	ata Point	was taken within	the floodpla	alli of brief Cre	ek approx	umatery	7 1111163	downsticulii	of the southern Outer Pleamont

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WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site. Thomson-Vogtle Transmission	Line City/County: Mc	Duffie County	Sampling Date: 4/27/2011
Project/Site: Thomson-Vogtle Transmission Applicant/Owner: Georgia Power Company		State: GA	Sampling Point: DP37 (W-18
Investigator(s): MEN, MWW	Section, Townsh	ip. Range:	Camping Found.
Landform (hillslope, terrace, etc.):	Local relief (cond	cave, convex, none):	Slope (%):
Subragion (LRR or MLRA), LRR P	Late	Long:	Datum:
Subregion (LRR or MLRA): LRR P Soil Map Unit Name: WhB Are climatic / hydrologic conditions on the site typical	Lat	Long.	PFM1A
Soil Map Unit Name:	EX.	NVVI class	diffication:
Are Vegetation \Box , Soil \Box , or Hydrology \Box			
Are Vegetation $\underline{\hspace{1cm}}$, Soil $\underline{\hspace{1cm}}$, or Hydrology $\underline{\hspace{1cm}}$	naturally problematic?	(If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS - Attach site	map showing sampling po	oint locations, transec	ts, important features, etc.
Hydric Soil Present? Yes	I No IX	mpled Area	
Wetland Hydrology Present? Yes	No × within a \	Wetland? Yes	NoX
Remarks:			
upland point for 02wet12N			
HYDROLOGY		Cocondon Inc	licatora (minimum of tura con inch)
Wetland Hydrology Indicators:			licators (minimum of two required)
Primary Indicators (minimum of one is required; ch			oil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		Vegetated Concave Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Patterns (B10)
Saturation (A3)	Marl Deposits (B15) (LRR U)		Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	pour l	on Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living		Burrows (C8)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled S	The second secon	nic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		quitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	FAC-Neut	ral Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches).		
	Depth (inches):		D
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Pres	sent? Yes NoX
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
)			
Hydrologic indicators not present.			

VEGETATION – Use scientific names of plant	٧	EGET/	ATION -	Use	scientific	names	of	plant	s.
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	Absolute	Dominant Indicato	Dominance Test worksheet:		
Tree Stratum (Plot size:) 1. Liquidambar styraciflua	15	Species? Status FAC	That Are OBL, FACW, or FAC: 5 (A)		
2. Pinus palustris 3	15	FACU	Total Number of Dominant Species Across All Strata: 7 (B)		
4			Percent of Dominant Species		
6		<u> </u>	(702)		
7			Prevalence Index worksheet:		
	30 =	Total Cover	Total % Cover of: Multiply by:		
Sapling Stratum (Plot size:)	10	E 540	OBL species x 1 =		
Liquidambar styraciflua	10	FAC	FACW species x 2 =		
			FAC species x 3 =		
		<u> </u>	FACU species x 4 =		
·		<u> </u>	UPL species x 5 =		
			Column Totals: (A) (B)		
			Prevalence Index = B/A =		
	— <u>. </u>	U	Hydrophytic Vegetation Indicators:		
	10 =	Total Cover	Dominance Test is >50%		
hrub Stratum (Plot size:)			Prevalence Index is ≤3.0¹		
•			Problematic Hydrophytic Vegetation ¹ (Explain)		
·			- 10 10 10 10 10 10 10 10 10 10 10 10 10		
			 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 		
		<u> </u>	Definitions of Vegetation Strata:		
		U	Tree – Woody plants, excluding woody vines,		
	=	Total Cover	approximately 20 ft (6 m) or more in height and 3 in.		
erb Stratum (Plot size:) Galium aparine	5	▼ FACU	(7.6 cm) or larger in diameter at breast height (DBH).		
			Sapling – Woody plants, excluding woody vines,		
			approximately 20 ft (6 m) or more in height and less		
		—	than 3 in. (7.6 cm) DBH.		
			Shrub – Woody plants, excluding woody vines,		
			approximately 3 to 20 ft (1 to 6 m) in height.		
			Herb – All herbaceous (non-woody) plants, including		
			herbaceous vines, regardless of size. Includes woody		
			plants, except woody vines, less than approximately		
			3 ft (1 m) in height.		
			Woody vine - All woody vines, regardless of height.		
1. <u> </u>					
	5 =	Total Cover			
/oody Vine Stratum (Plot size:)					
Vitis rotundifolia	5	ĭ FAC			
Parthenocissus quinquefolia	2	☐ FAC			
Smilax rotundifolia	5	ĭ FAC			
Lonicera japonica	4	▼ FAC			
			Hydrophytic		
	16 = Total Cover		Vegetation Present? Yes No		
	10 =	Total Cover	rieseitt res E NO L		

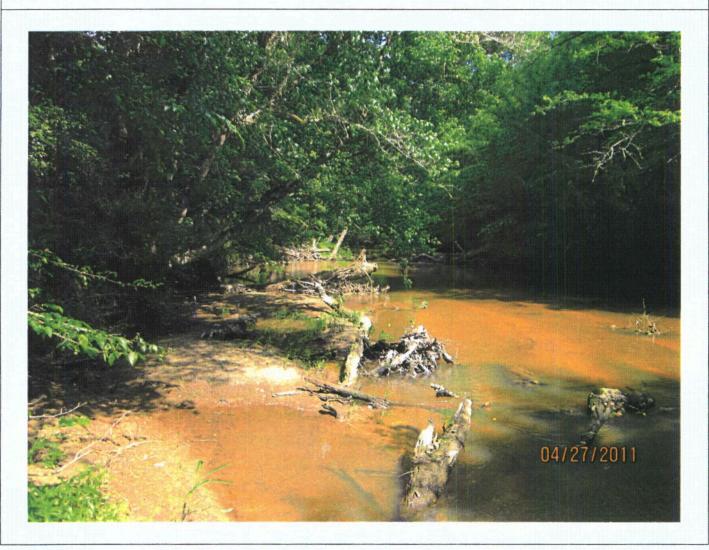
SOIL Sampling Point: DP37

Depth	Matrix			ox Feature				0 0000110	e of indicato	/		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Texture		Remark	(S	
0 - 6	10YR3/4	100					S.	Loam	Sandy Lo	oam		
6 - 15	10YR4/6	100					S.	Loam	Sandy Lo	oam		
							-					
									-			
									-			
¹ Type: C=C	concentration, D=D	epletion, RM=F	Reduced Matrix, C	S=Covered	d or Coate	ed Sand G	Grain	s. ² L	ocation: PL=	Pore Lining	g, M=Mat	rix.
Hydric Soil	Indicators:		_					Indicator	s for Probler	natic Hydr	ic Soils ³	:
Histosol	I (A1)		Polyvalue B	elow Surfa	ce (S8) (L	RR S, T,	U)	1 cm	Muck (A9) (L	RR O)		
Histic E	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S,	T, U)		2 cm	Muck (A10) (LRR S)		
Black H	listic (A3)		Loamy Mucl	ky Mineral	(F1) (LRR	(O)			ced Vertic (F			
gentleman .	en Sulfide (A4)		Loamy Gley		F2)				nont Floodpla			P, S, T)
granted to the same of the sam	d Layers (A5)		Depleted Ma						alous Bright	Loamy Soi	ls (F20)	
	Bodies (A6) (LRR		Redox Dark					-	.RA 153B)			
and the same of th	ucky Mineral (A7)		Depleted Da						Parent Materi			
and the same of th	resence (A8) (LRR		Redox Depr		8)				Shallow Dark		F12) (LR	RR T, U)
(Contract)	uck (A9) (LRR P, 1		Marl (F10) (Other	(Explain in F	Remarks)		
	d Below Dark Surf	ace (A11)	Depleted Oc					۹				
Land I	ark Surface (A12)		Iron-Mangar				', T)		cators of hyd			
	rairie Redox (A16)					, U)			etland hydrolo			•
	Mucky Mineral (S1)		Delta Ochric					un	less disturbe	d or proble	matic.	
	Gleyed Matrix (S4)		Reduced Ve									
CONTRACTOR OF THE PARTY OF THE	Redox (S5) d Matrix (S6)		Piedmont FI						0 450D)			
Stripped	INIALITIX (SO)		Anomalous	Bright Loai	TIV SOIIS (
		STIN		ŭ	, \	20) (1912)	KA I	407, 100	5, 1005)			
Dark Su	ırface (S7) (LRR P			49	, \	20) (14121	T		, 1005)			
Dark Su Restrictive												
Dark Su Restrictive	urface (S7) (LRR P Layer (if observe					- 20) (ME	I			Van I	П	×
Dark Sur Restrictive Type: Depth (in	urface (S7) (LRR P Layer (if observe					i 20) (WILI	I		I Present?	Yes	□ No.	×
Dark Su Restrictive	urface (S7) (LRR P Layer (if observe					1 20) (WILL	I			Yes	□ No.	X
Dark Surport Depth (in	urface (S7) (LRR P Layer (if observe					20) (WE	I			Yes	□ No.	×
Dark Surport Depth (in	urface (S7) (LRR P Layer (if observe					(WE	I			Yes	□ No.	×
Dark Surport Depth (in	urface (S7) (LRR P Layer (if observe					20) (#121	I			Yes	□ No.	×
Dark Sur Restrictive Type: Depth (in	urface (S7) (LRR P Layer (if observe					20) (M21	I			Yes	□ No.	×
Dark Sur Restrictive Type: Depth (in	urface (S7) (LRR P Layer (if observe					20) (M2	I			Yes	□ No	X
Dark Sur Restrictive Type: Depth (in	urface (S7) (LRR P Layer (if observe					20) (M2	I			Yes	□ No.	X
Dark Sur Restrictive Type: Depth (in	urface (S7) (LRR P Layer (if observe					20) (ML	I			Yes	□ No.	×
Dark Sur Restrictive Type: Depth (in	urface (S7) (LRR P Layer (if observe					20) (M21	I			Yes	□ No	×
Dark Sur Restrictive Type: Depth (in	urface (S7) (LRR P Layer (if observe					20) (M2	I			Yes	□ No.	×
Dark Sur Restrictive Type: Depth (in	urface (S7) (LRR P Layer (if observe					20) (11)	I			Yes	□ No.	×
Dark Surport Depth (in	urface (S7) (LRR P Layer (if observe					20) (11)	I			Yes	□ No.	×
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (11)	I			Yes	□ No.	×
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observe	d):				20) (11)	I			Yes	□ No.	×
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (11)	I			Yes	□ No.	X
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (11)	I			Yes	□ No.	X
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (11)	I			Yes	□ No.	X
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Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (11)	I			Yes	□ No.	X
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (11121	I			Yes	□ No.	X
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (ML	I			Yes	□ No.	X
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (11121	I			Yes	□ No.	X
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (#12.	I			Yes	□ No.	X
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (ML	I			Yes	□ No.	X
Dark Su Restrictive Type: Depth (in Remarks:	urface (S7) (LRR P Layer (if observed ches):	d):				20) (ML	I			Yes	□ No.	X

Stream Feature Datasheet

Feature No.: P-1	Map No.: 3f, 4a	Feature ID.: 02per01N	Type: Perennial			
Date Surveyed: 4/27/2011 & County: McDuffie & Warren		Watershed: Brier				
8-Digit HUC1: 03060108		12-Digit HUC: 030601080102				
Acreage: 0.25		Length: 170 linear feet				
Substrate: Sand and Silt	Width2: >40 linear feet	Depth3: 1-2 feet				

Comments: Brier Creek



¹ HUC – U.S. Geological Survey Hydrologic Unit Code ² Width was measured in linear feet from Ordinary High-water Mark (OHWM) to OHWM. ³ Depth was measured in feet from the OHWM to thalweg.

NCDWQ Stream Identification Data Collected Within the Corridor for the Proposed Thomson-Vogtle 500 kV Transmission Line.

<u>Date:</u> 4/27/11	Project Site: Thomson-Vogtle	Feature No.:	P-1 (Brier Creek)		
Evaluator: MEN & MWW	County: McDuffie and Warren, GA	Feature ID: 02per01N (Brier Creek)			
Parameter		Scoring Category	Numerical Score		
A. Geomorphology					
1. Continuity of bed and ba	nk	Strong	3		
2. Sinuosity of channel alo	ng thalweg	Moderate	2		
3. In-channel structure: ex	x. riffle/pool sequence	Strong	3		
4. Particle size of stream su	ıbstrate	Strong	3		
5. Active/relict floodplain		Strong	3		
6. Depositional bars or ber	nches	Strong 3			
7. Recent alluvial deposits		Strong	3		
8. Headcuts		Absent	0		
9. Grade control		Absent	0		
10. Natural valley or drain	age way	Strong	1.5		
11. 2 nd order channel on US	SGS or NRCS map? (Yes =3/No=0)	Yes	3		
B. Hydrology					
12. Presence of Baseflow		Strong	3		
13. Iron oxidizing bacteria		Absent	О		
14. Leaf litter		Absent	1.5		
15. Sediment on plants or o	lebris	Absent	О		
16. Organic debris lines or	piles	Strong	1.5		
17. Soil-based evidence of l	nigh water table? (Yes =3/No=0)	Yes	3		
C. Biology					
18. Fibrous roots in stream	lbed	Absent	3		
19. Rooted upland plants in	n streambed	Absent	3		
20. Macrobenthos		Strong	3		
21. Aquatic mollusks		Strong	3		
22. Fish		Strong	1.5		
23. Crayfish		Strong	1.5		
24. Amphibians		Strong	1.5		
25. Algae		Absent	О		
26. Wetland plants in strea Other=0)	imbed (FACW=0.75; OBL=1.5;	Other	O		
Total Points:			50		
Stream Type:			Perennial		

Prepared by: <u>MDH;</u> Date: <u>3/23/2012</u> Checked by: <u>MEN</u>: Date: <u>5/7/2012</u>

Wetland Feature Datasheet

Feature No.: W-19	Map No.: 3f, 4a	Feature ID.: 02wet012AN Type: Forested			
Date Surveyed: 4/28/2011 & 3/07/2012	County: Warren	Watershed: Brier			
8-Digit HUC1: 03060108		12-Digit HUC: 030601080103			
Total Acreage: 3.28		Forested Acreage: 3.28			

Dominant Vegetation: Liquidambar styraciflua, Liriodendron tulipifera, Carpinus caroliniana, Betula nigra, Athyrium filix-femina, Arundinaria gigantea, Leucothoe axillaris, Smilax rotundifolia, Vitis rotundifolia



¹ HUC – U.S. Geological Survey Hydrologic Unit Code