U.S. Army Corps of Engineers – Charleston District - Regulatory Division

JURISDICTIONAL DETERMINATION REQUEST

For Identifying Waters of the U.S., Including Wetlands and Tributaries

Project Name: Conder MEGA Site	Date : 5-27-2011			
County: Kershaw	Total Acreage of Tract: ~1,465 Acres			
Property Owner : Kershaw Co. Econ. Dev. Office	Agent: S&ME, Inc. (c/o Chris Daves, P.W.S.)			
Address: c/o Ms. Rebecca Murrell - Alliance CE	Address: 134 Suber Road			
Address: P.O Box 8147	Address: Columbia, SC 29210			
Phone: Columbia, SC 29202	Phone: (803) 561-9024			
Email: (803) 779-2078	Email: cdaves@smeinc.com			
Information Required to Accompany Request - Check available. At a minimum, the first two items must be forward.	k the items submitted - forward as much information as is varded:			
☑ Accurate Location Maps (from County Map, USGS Qu	uad Sheet, etc.)			
Survey Plat or Tax Map of the Property in Question				
Soil Survey Sheet (from USDA-NRCS) or Aerial Photo Property boundaries should be shown on the soil surv				
☐ Topographic Survey				
☐ Conceptual Site Plan for the Overall Development				
☑ Description of the proposed use of the property (residential, commercial, industrial, silvicultural, agricultural, etc.)				
Status of the project (on-going site work for development, development in planning stages, no plans at this time, etc.)				
Type of Determination Requested - Choose one:				
	whether wetlands or other waters are present on the site and will ination is likely to be made more quickly and require less			
	ether wetlands or other waters are present on the site and will stype of determination is likely to take longer and require more			
IMPORTANT NOTE: Legible printed name and signature required. The person signing this form <u>must</u> be the present property owner or have the specific authority of the property owner to authorize Corps of Engineers employees or their agents to enter onto the property for on-site investigations if such is deemed necessary. <u>Do not sign</u> this form unless you are the owner, or have the specific authority of the property owner.				
PRINTED NAME of person signing this form, below	: Chris Daves, P.W.S.			
Signature of Property Owner or Authorized Agent:_	Unis Daves			
LO and Cauth Branch North	though Dranch Northwest Propoh			

HQ and South Branch 69-A Hagood Avenue Charleston, SC 29403 843-329-8044 Northeast Branch 1949 Industrial Park Rd, Room 140 Conway, SC 29526 843-365-4239

Northwest Branch 1853 Assembly St., Room 865-B Columbia, SC 29201 803-253-3444



May 27, 2011

U.S. Army Corps of Engineers Columbia Regulatory Field Office 1835 Assembly Street, Room 865 B-1 Columbia, South Carolina 29201

Attention: Watershed 5 Project Manager

Reference: Request for Jurisdictional Determination

Conder MEGA Site – 1,465 Acres Lugoff, Kershaw County, South Carolina

S&ME Project No. 1614-11-083

Dear Watershed 5 Project Manager:

On behalf of the Kershaw County Economic Development Office and Alliance Consulting Engineers, S&ME, Inc. (S&ME) has completed a Wetland Delineation at the above-referenced site. The approximately 1,465-acre site is located northwest of the intersection of Interstate 20 and US Highway 601, approximately two miles south of Lugoff in Kershaw County, South Carolina. The site is depicted on Figure 1 (Vicinity Map) and Figure 2 (Topographic Map) in Appendix A. The site is located in the Middle Wateree River watershed (HUC 03050104) and USACE Watershed Group 5.

WETLAND DELINEATION

On several dates in March, April, and May, 2011, S&ME Biologists Chris Daves and Amanda White conducted the wetland delineation. Six (6) jurisdictional wetlands, two (2) jurisdictional impoundments of Waters of the US (WOUS), and fourteen (14) isolated non-jurisdictional wetlands were observed on the site. Additionally, twelve (12) linear features were noted including eight (8) Perennial Relatively Permanent Water (PRPW) features and four (4) Seasonal Relatively Permanent Water (SRPW) features. Two (2) non-jurisdictional, man-made features were observed including an upland-dug ditch (Ditch 1) and an upland-dug pond (Pond 1).

Please refer to Figure 3 (Aerial Map) in Appendix A for the approximate locations of these jurisdictional and non-jurisdictional features.

JURISDICTIONAL FEATURES

Please refer to the tables below for information regarding the jurisdictional on-site features included in the delineation.

Jurisdictional Wetlands

ID	Photo ID	Wetland Type	Comments
Wetland A	1-2	Forested	Encompasses Streams 1-4,
Wettallu A	1-2	Polesieu	Drains to offsite pond
Wetland B	3-4	Forested	Encompasses Streams 5-6
Wetland C	-	Forested	C connected to C-1 by pipe
Wetland D	5-6	Forested/ Emergent	Encompasses Streams 8-10
Wetland E	-	Forested	Encompasses Stream 7
Wetland H	-	Emergent	Pipe connects to Wetland B

Jurisdictional Open Waters

ID	Photo ID	Feature Type	ture Type Comments	
Open Water X-1	7	Impoundment	Encompasses Stream 12, drains to Wetland D	
Open Water X-2	-	Impoundment	Fed by offsite wetlands, drains to Wetland X	

Jurisdictional Linear Features

ID	Photo ID	Feature Type	pe Comments		
Stream-1	8	PRPW	Main channel through Wetland A		
Stream-2	-	PRPW	Flows into Stream-1 in Wetland A		
Stream-3	-	SRPW	Flows into Stream-2 in Wetland A		
Stream-4	-	SRPW	Flows into Stream-1 in Wetland A		
Stream-5	9	PRPW	Main channel through Wetland B		
Stream-6	-	PRPW	Flows into Stream-5 in Wetland B		
Stream-7	-	SRPW	Drains Wetland E		
Stream-8	-	PRPW	Flows from offsite into Wetland D		
Stream-9	10	PRPW	Flows north into Wetland D		
Stream-10	-	SRPW	Flows into Stream-9 in Wetland D		
Stream-11	_	PRPW	Flows south within Wetland X		
Stream-12	11	PRPW	Main channel in Wetland X flows into Stream 9		

NON-JURISDICTIONAL FEATURES

In addition to the above jurisdictional features, 14 isolated, non-jurisdictional wetlands were observed. These features appear to be isolated, non-jurisdictional since they lack a hydrologic connection to a jurisdictional feature and are surrounded entirely by uplands. Evidence of physical, chemical, or ecological connection between the isolated wetlands and nearby streams, wetlands, or other WOUS was not observed. Two additional non-jurisdictional features observed include one upland-dug pond and one upland-dug ditch.

Isolated, Non-Jurisdictional Features

ID	Photo ID	Wetland Type	Comments
Wetland F	-	Forested/ Depressional	Isolated
Wetland G	-	Forested/ Depressional	Isolated
Wetland I	-	Cut-over/ Seepage	Isolated
Wetland J	12	Cut-over/ Seepage	Isolated
Wetland K	-	Cut-over/ Seepage	Isolated
Wetland L	-	Cut-over/ Seepage	Isolated
Wetland M	-	Forested/ Depressional	Isolated
Wetland N	13	Forested/ Seepage	Isolated
Wetland O	-	Forested/ Depressional	Isolated
Wetland P	-	Forested/ Seepage	Isolated
Wetland Q	-	Forested/ Depressional	Isolated
Wetland R	_	Forested/ Depressional	Isolated
Wetland S	-	Forested/ Seepage	Isolated
Wetland T	-	Forested/ Seepage	Isolated

Man-Made, Non-Jurisdictional Features

ID	Photo ID	Feature Type Comments	
Pond 1	14	Upland-dug pond	Isolated
Ditch 1	15	Upland-dug ditch	Concave, roadside ditch

UPLANDS

Upland areas (Photographs 16-18) on the site consist of a sand mine, open land, cut-over woodland, mixed hardwood forest, and pine stands of various ages. These portions of the site consist of non-hydric soil series such as Ailey, Blanton, Lakeland, Vaucluse and Wagram as listed in the *Soil Survey of Kershaw County* (Figure 4 – Soils Map). Wetland vegetation, soils, or hydrology were not observed in the upland areas.

ENCLOSURES

Attached in Appendices A and B, please find the following information for your review:

Appendix A

Figure 1 - Vicinity Map, Figure 2 - Topographic Map, Figure 3 - Aerial Map, Figure 4 - Soils Map, Figure 5 - NWI Map, Site Photographs

Appendix B

Wetland/Upland Datasheets

CLOSING

Thank you for your time and attention to this project. If you require a field visit to verify the delineation, we look forward to meeting you onsite. If we can provide additional information, please do not hesitate to contact Chris Daves at 803-561-9024.

Sincerely, **S&ME**, Inc.

Amanda White

Biologist

Chris Daves, P.W.S.

Biologist

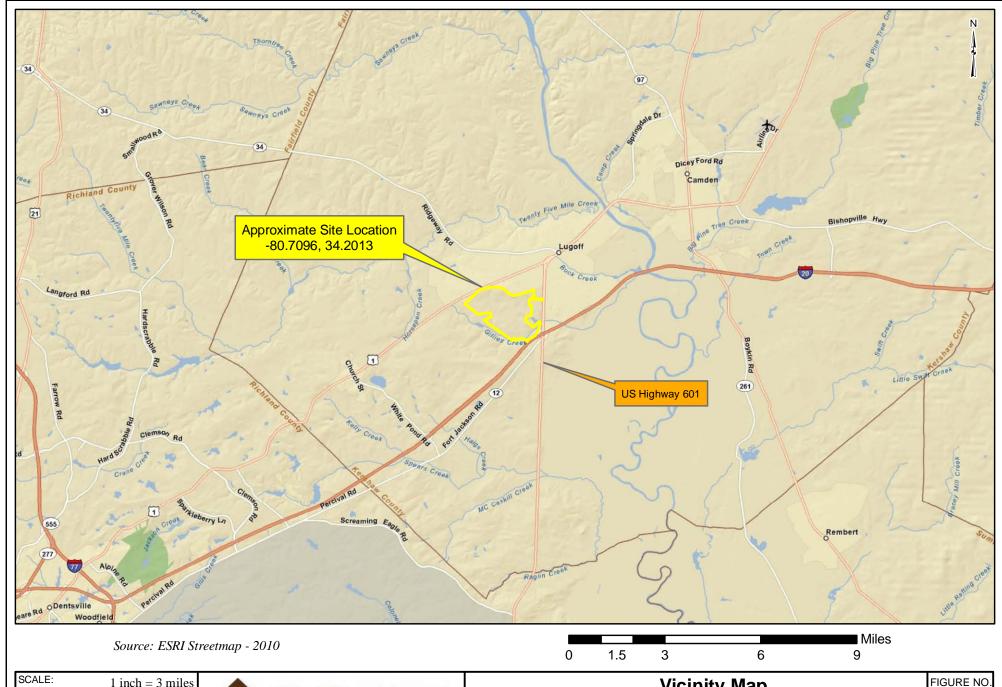
Senior reviewed by Tom Behnke, P.G. Environmental Department Manager

cc: Rebecca Murrell, Alliance Consulting Engineers

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Appendix A

Vicinity Map
Topographic Map
Aerial Map
Soils Map
NWI Map
Site Photographs



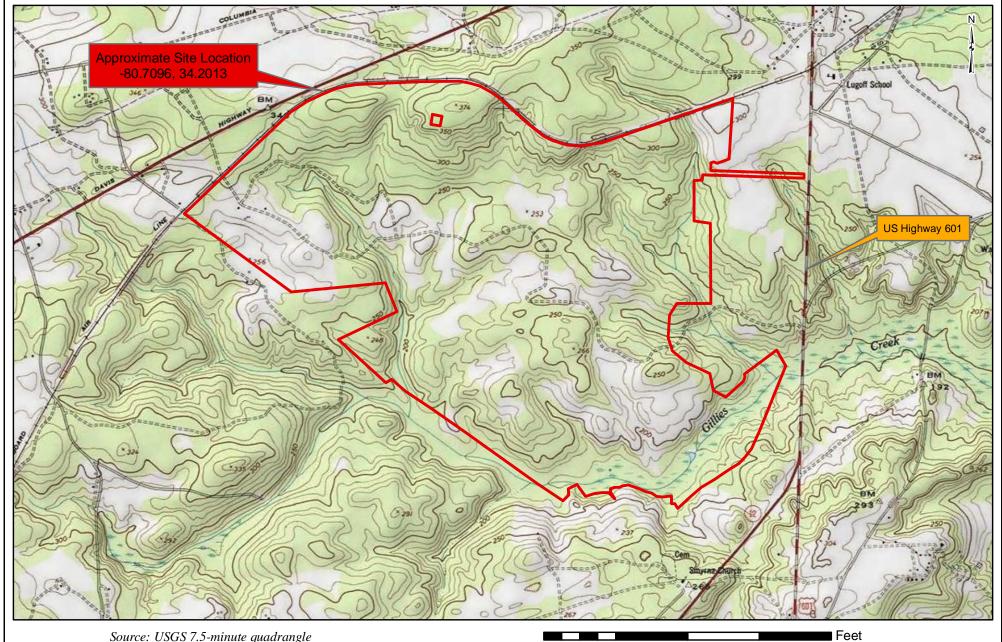
SCALE:1 inch = 3 milesCHECKED BY:TBDRAWN BY:WCDDATE:5/12/2011



Vicinity Map
Conder MEGA Site ~ 1,465 acres
Lugoff, Kershaw County, South Carolina

S&ME PROJECT NO. 1614-11-083

GURE NO. $oldsymbol{1}$



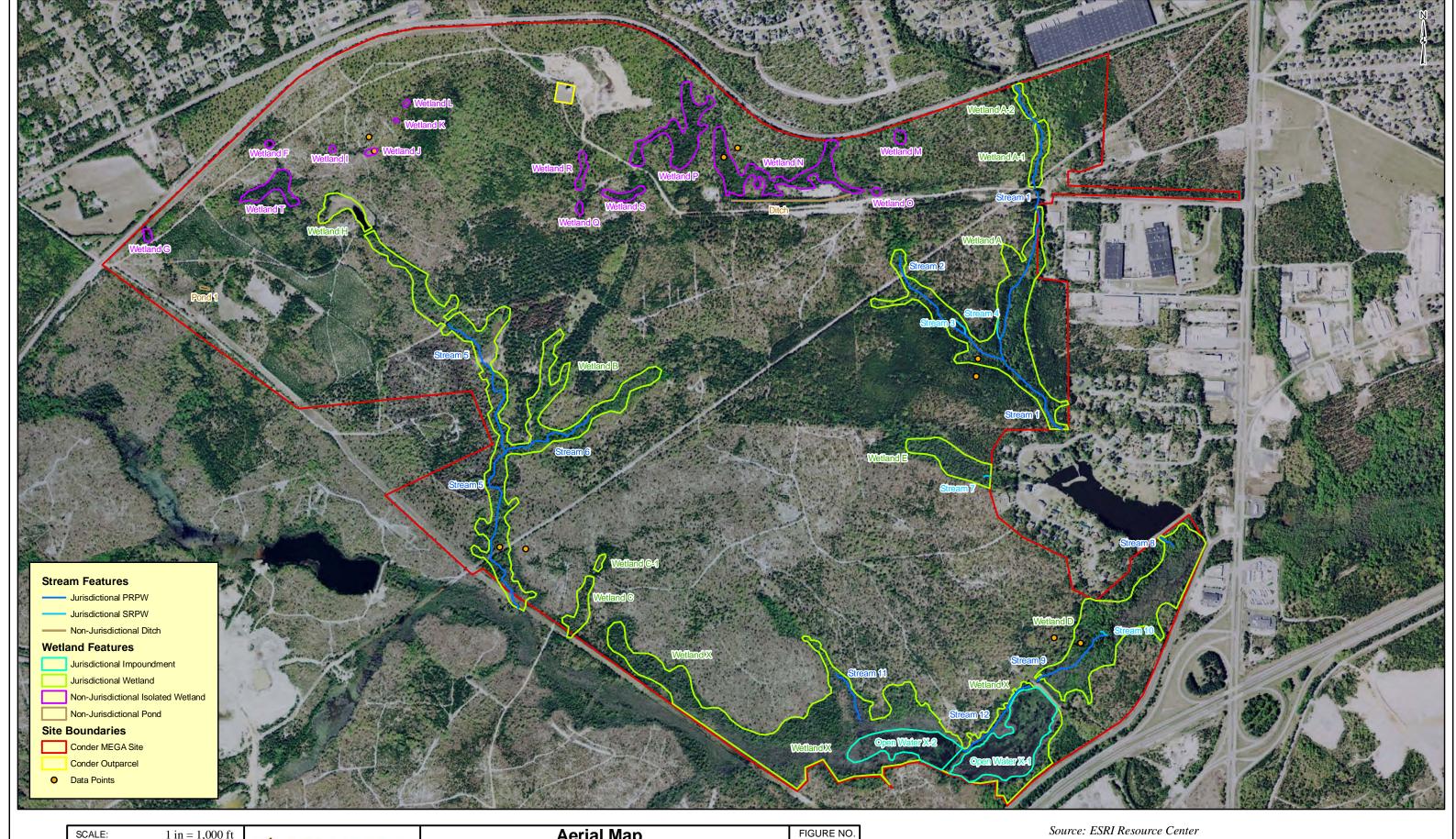
Source: USGS 7.5-minute quadrangle Lugoff, SC - 1953

0 750 1,500 3,000 4,500 6,000

SCALE:	1 in = 2,000 ft
CHECKED BY:	TB
DRAWN BY:	WCD
DATE:	5/12/2011



Topographic Map	FIGURE NO.
Conder MEGA Site ~ 1,465 acres	2.
Lugoff, Kershaw County, South Carolina	
S&ME PROJECT NO. 1614-11-083	



3

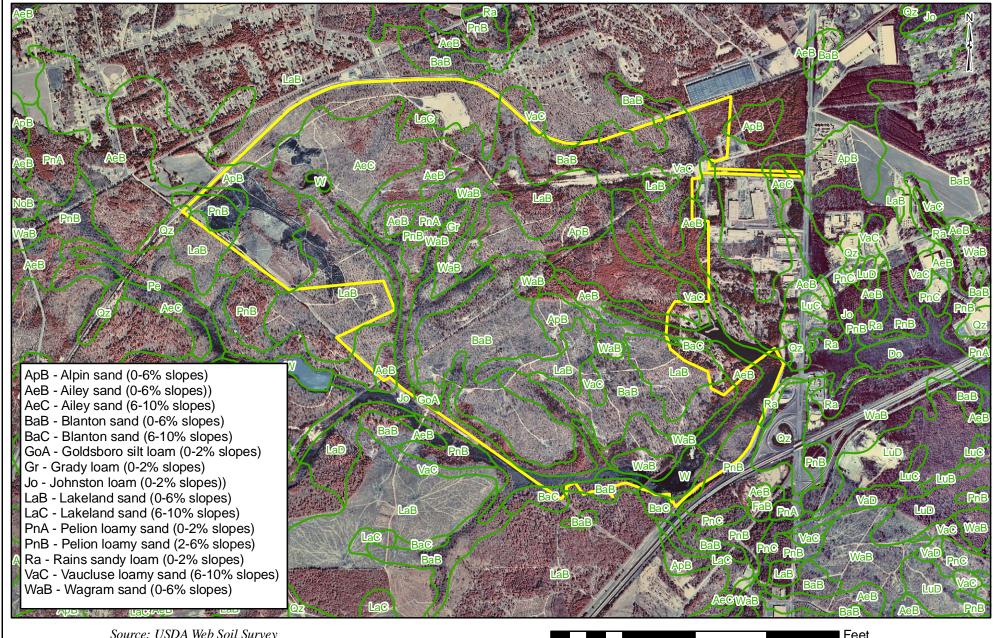
SCALE:	1 in = 1,000 ft
CHECKED BY:	TB
DRAWN BY:	WCD
DATE:	5/12/2011



Aeriai wap
Conder MEGA Site ~1,465 Acres Lugoff, Kershaw County, South Carolina
S&ME PROJECT NO. 1614-11-083

Source: ESRI Resource Center NAIP Aerial Photography - 2009

					Feet
0	500	1,000	2,00	3,000	4,000



Source: USDA Web Soil Survey NAPP Aerial Photograph - 1999

SCALE: 1 inch = 2,000 feetCHECKED BY: TB WCD DRAWN BY: DATE: 4/21/2011



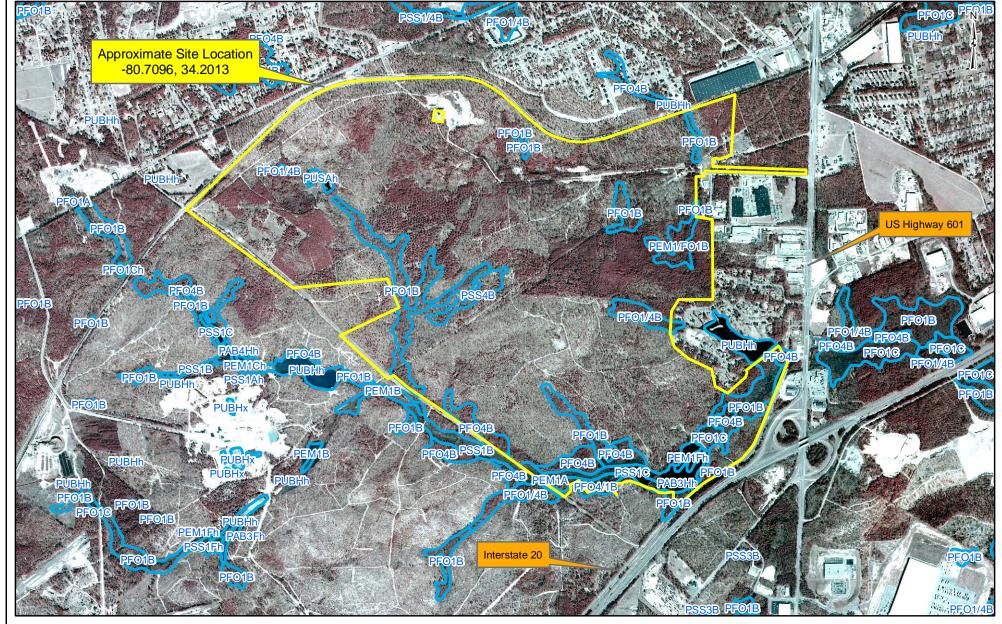
				Feet
0	750 1,500	3,000	4,500	6,000

Soils Map

Conder MEGA Site ~ 1,465 acres
Lugoff, Kershaw County, South Carolin

FIGURE NO.

S&ME PROJECT NO. 1614-11-083



Source: USFWS National Wetlands Inventory

Feet 750 1,500 6,000 NAPP Aerial Photograph - 2006 3,000 4,500

S&M

SCALE:	1 in = 2,000 ft
CHECKED BY:	TB
DRAWN BY:	WCD
DATE:	5/12/2011



NWI Map	FIGURE NO.	
Conder MEGA Site ~ 1,465 acres Lugoff, Kershaw County, South Carolina	5	
IE PROJECT NO. 1614-11-083	1	

Conder MEGA Site – Kershaw County S&ME Project No. 1614-11-083 Taken: March, April, and May, 2011





Vegetation in Wetland A Photo #1



Photo #3 Vegetation in Wetland B



Photo #5 Vegetation in Wetland D





Hydric soils in Wetland A Photo #2



Photo #4 Hydric soils in Wetland B



Photo #6 Hydric soils in Wetland D

Conder MEGA Site – Kershaw County S&ME Project No. 1614-11-083 Taken: March, April, and May, 2011







Stream 5 - PRPW Photo #9



Photo #11 Stream 12 (PRPW)





Photo #8 Stream 1 - PRPW



Photo #10 Stream 9 - PRPW



Photo #12 Wetland J (Isolated)

Conder MEGA Site – Kershaw County S&ME Project No. 1614-11-083 Taken: March, April, and May, 2011



Photo #13 Wetland N (Isolated)



Photo #15 Ditch 1 (non-jurisdictional)



Photo #17 Planted pines uplands





Photo #14 Pond 1 (non-jurisdictional)



Photo #16 Pine - mixed hardwoods uplands



Photo #18 Soils in the planted pines uplands

Appendix B

Wetland/Upland Datasheets

Project/Site: Conder Mega Site	City/County: Lugoff/ Kershaw	Sampling Date: 03/07/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Wetland A
Investigator(s): C. Daves/ A. White Landform (hillslope, terrace, etc.): Drainageway Subregion (LRR or MLRA): LRR-P, MLRA-136 Soil Map Unit Name: Jo - Johnston loam	Section Township Range NE of the I-	-20/ Hwy 601 interchange
Landform (hillslone terrace etc.). Drainageway	Local relief (concave, convey, none). Cor	ncave Slope (%): 2%
Subregion (LRP or MLRA). LRR-P, MLRA-136	7 Long: -81.6959	Datum: NAD83
Sail Man Linit Name Jo - Johnston loam	Long	Jacobian PFO1B
Are climatic / hydrologic conditions on the site typical for this time of year	Yes No (framework)	lassification.
Are Vegetation, Soil, or Hydrology significantly Are Vegetation, Soil, or Hydrology naturally pro	disturbed? Are "Normal Circumstar	nces" present? Yes No No
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, trans	sects, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes	s 🗵 No
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No No No No No No No No No N	within a wetland?	3 <u> </u>
Remarks:	•	
The sampling point is within Wetland A.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary	/ Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		ce Soil Cracks (B6)
Surface Water (A1) Water-Stained I		ely Vegetated Concave Surface (B8)
	· · ·	age Patterns (B10)
Saturation (A3) Marl Deposits (I		Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfic		eason Water Table (C2)
		sh Burrows (C8)
Drift Deposits (B3)	duced Iron (C4) 🗵 Satura	ation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	duction in Tilled Soils (C6) 🔲 Geome	orphic Position (D2)
Iron Deposits (B5)	ace (C7)	w Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Unother (Explain i	n Remarks) X FAC-N	Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No Depth (inches)		
Water Table Present? Yes X No Depth (inches)	:	🛛 🗆
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	: 2" Wetland Hydrology F	Present? Yes X No X
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:	
Saturation visible on NAPP 1999 imagery.		
Remarks:		
Wetland hydrology indicators were observed at this data po	oint.	
data pe		ļ.

Tree Stratum (Plot size: 30 foot radius)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:	
1. Pinus serotina	40%	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 7	A)
2. Liquidambar styraciflua	10%	Yes	FAC	,	-/
3.				Total Number of Dominant Species Across All Strata: 7	B)
4					,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100%	A/B)
6					- (5)
7				Prevalence Index worksheet:	
30 foot radius	50%	= Total Cov	er	Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 30 foot radius) 1 Pinus serotina	10%	Yes	FACW	OBL species x 1 =	
2. Liquidambar styraciflua	10%		FAC	FACW species x 2 =	
3. Persea borbonia	20%	Yes	FACW	FACULARISIS X 3 =	
				FACU species x 4 = UPL species x 5 =	
4					(B)
5				Column Totals: (A)	(D)
6				Prevalence Index = B/A =	
7	40%	= Total Cove		Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 30 foot radius)		- Total Cove	er	Dominance Test is >50%	
1. Ilex coriacea	30%	Yes	FACW	Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegetation ¹ (Explain)	1
3					
4				¹ Indicators of hydric soil and wetland hydrology mu	st
5				be present, unless disturbed or problematic.	
6				Definitions of Vegetation Strata:	
7				Tree – Woody plants, excluding woody vines,	
5 foot radius	30%	= Total Cove	er	approximately 20 ft (6 m) or more in height and 3 ir	
Herb Stratum (Plot size: 5 foot radius				(7.6 cm) or larger in diameter at breast height (DBI	1).
1				Sapling – Woody plants, excluding woody vines,	
2				approximately 20 ft (6 m) or more in height and les than 3 in. (7.6 cm) DBH.	S
3				,	
4				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
5					
6				Herb – All herbaceous (non-woody) plants, includir herbaceous vines, regardless of size. Includes wo	
8.				plants, except woody vines, less than approximatel	
9.				3 ft (1 m) in height.	
10.				Woody vine – All woody vines, regardless of heigh	nt.
11.					
12.					
		= Total Cove	er		
Woody Vine Stratum (Plot size: 5 foot radius	100/	Vaa	E A C\A/		
1. Smilax laurifolia	10%	Yes	FACW		
2					
3					
4				Hydrophytic	
5	100/			Vegetation	
	10 /0	= Total Cove	er	Present? Yes No D	
Remarks: (If observed, list morphological adaptations bel	ow).				
Hydrophytic vegetation was observed at this da	ita point				
, a. opiny no vogotation was observed at tills de	ita politi.				

Sampling Point: Wetland A

Depth Matrix Redox Features Color (moist) % Type Loc² Texture Remarks
1-12" 10 YR 2/1 95% 5 YR 4/4 5% loam
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix. Thom Muck Cap (LRR V, U) Tom Muck (A9) (LRR O) Tom Muck (A9) (LRR O) Tom Muck (A10) (LRR O) Tom Muck (A10) (LRR P, T, U) Tom Muck (A9) (LRR P, T, U) Tom Muck (A10) (LRR P, S, T) Tom Muck (A10) (LRR P, S, T, U) Tom Muck (A9) (LRR P, S, T, U) Tom Muck (A10) (LRR P, S, T, U) Tom M
¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: Histosol (A1)
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Huck (Presence (A8) (LRR P, T, U) Huck (A9) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Huck (A9) (LRR P, T) Depleted Dark Surface (F7) Horn-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Delted Matrix (F3) Horn-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 1510) Hron-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A, B) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR T, U) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Hort-Manganese
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Huck (Presence (A8) (LRR P, T, U) Huck (A9) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Huck (A9) (LRR P, T) Depleted Dark Surface (F7) Horn-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Delted Matrix (F3) Horn-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 1510) Hron-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A, B) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR T, U) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Hort-Manganese
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Huck (Presence (A8) (LRR P, T, U) Huck (A9) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Huck (A9) (LRR P, T) Depleted Dark Surface (F7) Horn-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Delted Matrix (F3) Horn-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 1510) Hron-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A, B) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR T, U) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Hort-Manganese
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Huck (Presence (A8) (LRR P, T, U) Huck (A9) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Huck (A9) (LRR P, T) Depleted Dark Surface (F7) Horn-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Delted Matrix (F3) Horn-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 1510) Hron-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A, B) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR T, U) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Hort-Manganese
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Huck (Presence (A8) (LRR P, T, U) Huck (A9) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Huck (A9) (LRR P, T) Depleted Dark Surface (F7) Horn-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Delted Matrix (F3) Horn-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 1510) Hron-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A, B) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR T, U) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Hort-Manganese
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Huck (Presence (A8) (LRR P, T, U) Huck (A9) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Huck (A9) (LRR P, T) Depleted Dark Surface (F7) Horn-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Delted Matrix (F3) Horn-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 1510) Hron-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A, B) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR T, U) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Hort-Manganese
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Huck (Presence (A8) (LRR P, T, U) Huck (A9) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T) Huck (A9) (LRR P, T) Depleted Dark Surface (F7) Horn-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (F3) Delted Matrix (F3) Horn-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 1510) Hron-Manganese Masses (F12) (LRR O, P, T) Delte Orbric (F13) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A, B) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR P, S, T) Hedmort Floodplain Soils (F19) (LRR T, U) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Horn-Manganese Masses (F12) (LRR O, P, T) Hort-Manganese
Histosol (A1) Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) 1 cm Muck (A9) (LRR P, T, U) Depleted Below Matrix (F3) Marl (F10) (LRR U) Thin Dark Surface (F12) (LRR O, P, T) Marl (F10) (LRR O, P) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Dark Surface (S9) (LRR S, T, U) Dark Surface (S9) (LRR S, T, U) Dark Surface (S9) (LRR S, T, U) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Marl (F10) (LRR U) Depleted Dark Surface (F7) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Detail Corporation Soils (F10) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S9) (LRR S, T, U) Dark Surface (S9) (LRR S, T, U) Dark Surface (S9) (LRR S, T, U) Dark Surface (A10) Dark Surface (S9) (LRR S, T, U) Depleted Matrix (F3) Reduced Vertic (F18) (MLRA 150A) Reduced Vertic (F18) (MLRA 150A) Marl (F10) (LRR U, D) Depleted Ochric (F11) (MLRA 151) Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Sandy Medox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Muck Presence (A8) (LRR P, T) Marl (F10) (LRR U) Thin Dark Surface (S9) (LRR S, T, U) Redox Dark Surface (F6) Marl (F10) (LRR P, T) Marl (F10) (LRR P, T) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Wery Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)
Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Depleted Matrix (F3) Stratified Layers (A6) Depleted Matrix (F3) Some Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Derk Surface (F12) (LRR O, P, T) Marl (F10) (LRR U) Depleted Derk Surface (F13) (LRR O, P, T) Depleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 150A) Marl (F10) (LRR O, P, T) Marl (F10) (MLRA 151) Marl (F10) (MLRA 150A) Marl (F10) (ML
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Depleted Matrix (F3) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Worky Mineral (A7) (LRR P, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Wery Shallow Dark Surface (TF12) (LRR T, U) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Wory Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) 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) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Depleted Ochric (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) Tom Muck (A9) (LRR P, T) Depleted Dark Surface (F1) Marl (F10) (LRR U) Depleted Dark Surface (F1) Marl (F10) (LRR U) 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) Stripped Matrix (S6) Depleted Matrix (F3) Redox Dark Surface (F7) Redox Depressions (F8) Wery Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) Other (Explai
Organic Bodies (A6) (LRR P, T, U) Som Mucky Mineral (A7) (LRR P, T, U) 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) Stripped Matrix (S6) Depleted Dark Surface (F7) Redox Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) Other (Explain in Remarks) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
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 (S6) Dark Surface (S7) (LRR P, S, T, U) Redox Depressions (F8) Wery Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) I other (Explain in Remarks) Very Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) I other (Explain in Re
□ 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) □ Dark Surface (S7) (LRR P, S, T, U) □ Dark Surface (S7) (LRR P, S, T, U) □ Dark Surface (S7) (LRR P, S, T, U) □ Other (Explain in Remarks) □ Depleted Ochric (F11) (MLRA 151) □ Uron-Manganese Masses (F12) (LRR O, P, T) □ Uron-Manganese Masses (F12) (LRR P, T, U) □ Uron-Manganese Masses (F12) (LR P, T, U) □ Uron-Manganese Masses (F12) (LR P, T, U) □ Uron-Manganese Masses (F12) (LR P, T, U) □ Uron-Manganese Masses (F12) (L
Image: Depleted Below Dark Surface (A11)Depleted Ochric (F11) (MLRA 151)□ Thick Dark Surface (A12)□ Iron-Manganese Masses (F12) (LRR O, P, T)Iron-Manganese Masses (F12) (LRR O, P, T)□ Coast Prairie Redox (A16) (MLRA 150A)□ Umbric Surface (F13) (LRR P, T, U)wetland hydrology must be present, unless disturbed or problematic.□ Sandy Mucky Mineral (S1) (LRR O, S)□ Delta Ochric (F17) (MLRA 151)unless disturbed or problematic.□ Sandy Gleyed Matrix (S4)□ Reduced Vertic (F18) (MLRA 150A, 150B)□ Sandy Redox (S5)□ Piedmont Floodplain Soils (F19) (MLRA 149A)□ Stripped Matrix (S6)□ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
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) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F17) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
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) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
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) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)
Dark Surface (S7) (LRR P, S, T, U)
Restrictive Laver (if observed):
Type: Depth (inches): Hydric Soil Present? Yes No
Remarks:
Hydric soils were observed at this datapoint.

Project/Site: Conder Mega Site	City/County: Lugoff/ Kershaw	Sampling Date: 03/07/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Upland A
Investigator(s): C. Daves/ A. White	Section Township Range. NE of the I-20/	Hwy 601 interchange
Investigator(s): C. Daves/ A. White Landform (hillslope, terrace, etc.): Side Slope Subregion (LRR or MLRA): LRR-P, MLRA-136 Soil Map Unit Name: BaB - Blanton Sand	Local relief (concave convex none). Concav	/e Slone (%): 4%
Subregion (LRR or MLRA): LRR-P, MLRA-136 Lat: 34.17	68 Long81.9882	Datum: WGS84
Soil Man Unit Name: BaB - Blanton Sand	NWI classif	fication. Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	Yes No. (If no explain in	Pamarke)
Are Vegetation, Soil, or Hydrology significantly		
Are Vegetation , Soil , or Hydrology naturally pr	roblematic? (If needed, explain any angu-	vors in Pomarks
SUMMARY OF FINDINGS – Attach site map showing		
	<u>, </u>	· •
Hydrophytic Vegetation Present? Yes No L	Is the Sampled Area	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Watland Hydrology Present? Yes No X	within a Wetland? Yes	No ×
Remarks:		
The sampling point is within an upland area adjacent to	Wetland A	
The sampling point to waim an apiana area adjasent to	Wolland 7 t.	
HYDROLOGY		
Wetland Hydrology Indicators:		cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		il Cracks (B6)
☐ Surface Water (A1) ☐ Water-Stained ☐ High Water Table (A2) ☐ Aquatic Fauna	· · · · · · · · · · · · · · · · · · ·	egetated Concave Surface (B8) Patterns (B10)
		Lines (B16)
Water Marks (B1) Hydrogen Sulfi		n Water Table (C2)
		urrows (C8)
		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	eduction in Tilled Soils (C6) 🔲 Geomorphi	ic Position (D2)
Iron Deposits (B5)	face (C7)	uitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain	in Remarks)	al Test (D5)
Field Observations:	,	
Surface Water Present? Yes No Depth (inches		
Water Table Present? Yes No Depth (inches No Depth (inch	s): wetland Hydrology Prese	ent? Yes No 🗵
(includes capillary fringe)		entr res <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:	
Remarks:		
Wetland hydrology indicators were not observed at this da	ita point.	

Sampling	Point:	Upland A

20 foot radius	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 foot radius		Species?		Number of Dominant Species	
1. Pinus taeda	40%	Yes	FAC	That Are OBL, FACW, or FAC: 4	(A)
2. Pinus palustris	20%	Yes	FACU	Total Number of Dominant _	
3. Quercus falcata	20%	Yes	FACU		(B)
4				Descrit of Descious Consider	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 57%	(A/B)
6				matrice obe, triow, of trio.	(700)
7.				Prevalence Index worksheet:	
	80%	= Total Cov	/er	Total % Cover of: Multiply by:	_
Sapling Stratum (Plot size: 30 foot radius)		- 10tai 00t	CI	OBL species x 1 =	_
1. Quercus falcata	10%	Yes	FACU	FACW species x 2 =	
2.				FAC species x 3 =	
3.				FACU species x 4 =	
4.				UPL species x 5 =	
				Column Totals: (A)	
5				Column rotals (A)	_ (D)
6				Prevalence Index = B/A =	
7	100/			Hydrophytic Vegetation Indicators:	_
Shrub Stratum (Plot size: 30 foot radius)	10%	= Total Cov	er	Dominance Test is >50%	
Pinus taeda	10%	Yes	FAC	— Prevalence Index is ≤3.0¹	
	10%	Yes	FAC		- \
2. Ligustrum sinense				Problematic Hydrophytic Vegetation ¹ (Explain	n)
3					
4				¹ Indicators of hydric soil and wetland hydrology m	nust
5				be present, unless disturbed or problematic.	
6				Definitions of Vegetation Strata:	
7.					
	20%	= Total Cov	er	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3	in
Herb Stratum (Plot size: 5 foot radius)		10101 001	01	(7.6 cm) or larger in diameter at breast height (DE	
1. Smilax rotundifolia	10%	Yes	FAC		
2.				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and le	.ee
3.				than 3 in. (7.6 cm) DBH.	333
4				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
5				approximately 5 to 20 ft (1 to 6 ff) in neight.	
6				Herb - All herbaceous (non-woody) plants, include	
7				herbaceous vines, regardless of size. Includes w plants, except woody vines, less than approximat	
8				3 ft (1 m) in height.	.Сту
9					
10				Woody vine – All woody vines, regardless of height	ght.
11					
12					
E fact radius	10%	= Total Cov	er		
Woody Vine Stratum (Plot size: 5 foot radius)					
1					
2					
3					
4					
5.				Hydrophytic	
		= Total Cov	er	Vegetation	
		Total Gov	O1		
Remarks: (If observed, list morphological adaptations bel	ow).				
Hydrophytic vegetation was observed at this da	ıta point				
, , , , , , , , , , , , , , , , , , ,					

Sampling Point: Upland A

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of indic	ators.)			
Depth	Matrix			x Feature							
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Rem	<u>arks</u>		
1-8"	10 YR 3/3	100%					I. sand				
8-16"	10 YR 6/6	100%					sand				
1			hadring O	0-0			21	DI D 1 :		N 4 4 1 - 1	
Hydric Soil	oncentration, D=De	pletion, RIVI=F	reduced Matrix, C	S=Covered	d or Coate	a Sana Gr	Indicators for Pro	PL=Pore Lir			
l 📥			D Dalamatus B	- I C f -	(00) (1		_	-	furic 30	, iii .	
Histosol	(AT) pipedon (A2)		Polyvalue Be				J)				
Black Hi	. , ,		Loamy Muck				Reduced Verti		side MI	RA 15	0A B)
_	n Sulfide (A4)		Loamy Gley	-	. , .	. •,	Piedmont Floo	. , .			
	Layers (A5)		Depleted Ma		,		Anomalous Br				, ,
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		- 6)		(MLRA 153E		`	,	
5 cm Mu	icky Mineral (A7) (L	.RR P, T, U)	Depleted Da	rk Surface	e (F7)		Red Parent Ma	, ,			
	esence (A8) (LRR		Redox Depre	,	8)		<u>□</u> Very Shallow [Dark Surface	(TF12)	(LRR	T, U)
	ıck (A9) (LRR P, T)						Other (Explain	in Remarks)		
	d Below Dark Surfa	ce (A11)	Depleted Oc	, ,	•	•	3				
	ark Surface (A12)		Iron-Mangar		. , .		•		-		d
	rairie Redox (A16) (, U)	•	drology mus			
	fucky Mineral (S1)	(LRR O, S)	Delta Ochric			0.4 .450D\		irbed or prol	olematic	•	
	Gleyed Matrix (S4)		Reduced Ve								
	Redox (S5)		Piedmont Flo								
	Matrix (S6) rface (S7) (LRR P,	e T II)	Anomalous i	Bright Loar	my Solis (I	-20) (WILK	RA 149A, 153C, 153D)				
	_ayer (if observed						1				
Type:	Layer (ii observed)	,.									
, , <u> </u>	ches):						Hydric Soil Presen	t? Yes		No	×
							Hydric Soil Freseii	tr res_		NO	
Remarks:											
Hydric soils	were not obser	ved at this d	atanoint								
III Iyune son.	Were not observ	ved at tills d	атаропт.								
L											

Proiect/Site: Conder Mega Site	City/County: Lugoff/ Kershaw	Sampling Date: 03/07/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Wetland B
Investigator(s): C. Daves/ A. White	Section Township Range. NE of the I-20	/ Hwy 601 interchange
Landform (hillslope, terrace, etc.): Drainageway	ocal relief (concave, convex, none). Conca	ave Slone (%). 2%
Subregion (LRR or MLRA). LRR-P, MLRA-136	58 Long: -80.7151	Datum: NAD83
Investigator(s): C. Daves/ A. White Landform (hillslope, terrace, etc.): Drainageway Subregion (LRR or MLRA): LRR-P, MLRA-136 Soil Map Unit Name: Jo - Johnston loam	NWI class	sification: PFO1B
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes Yes No (If no explain i	n Remarks)
Are Vegetation, Soil, or Hydrology significantly		
Are Vegetation, Soil, or Hydrology naturally pro	blematic? (If needed, explain any ans	ewers in Remarks)
SUMMARY OF FINDINGS – Attach site map showing		
Liveteenhidie Vegetation Procent2		
Hydric Soil Present? Yes No	Is the Sampled Area	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present?	within a Wetland? Yes	<u> </u>
Remarks:		
The sampling point is within Wetland B.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Inc	dicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface S	Soil Cracks (B6)
☐ Surface Water (A1) Water-Stained L	₋eaves (B9) Sparsely `	Vegetated Concave Surface (B8)
High Water Table (A2) Aquatic Fauna (Patterns (B10)
Saturation (A3)		m Lines (B16)
Water Marks (B1) Sediment Deposits (B2) Hydrogen Sulfid		on Water Table (C2)
Skidized Triized		Burrows (C8)
Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reposits (B4)		n Visible on Aerial Imagery (C9) hic Position (D2)
Iron Deposits (B5)	` ' 🗖 '	Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain i	` ' 	tral Test (D5)
Field Observations:		
Surface Water Present? Yes No Depth (inches)		
Water Table Present? Yes No Depth (inches)	:	
Saturation Present? Yes No Depth (inches)	: 6" Wetland Hydrology Pre	sent? Yes X No V
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo		
Remarks:		
Wetland hydrology indicators were observed at this data po	pint.	

' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				· • —
Tree Stratum (Plot size: 30 foot radius)	Absolute	Dominant		Dominance Test worksheet:
1. Liquidambar styraciflua	30%	Species? Yes	FAC	Number of Dominant Species That Are ORL FACW or FAC: 14
				That Are OBL, FACW, or FAC: 14 (A)
2. Liriodendron tulipifera	10%	Yes	FAC	Total Number of Dominant
3. Acer rubrum	10%	Yes	FAC	Species Across All Strata: 14 (B)
4				
5.				Percent of Dominant Species That Are OBL FACW or FAC: 100%
				That Are OBL, FACW, or FAC: 100% (A/B)
6				Prevalence Index worksheet:
7	F00/			Total % Cover of: Multiply by:
30 foot radius	50%	= Total Cov	er er	
Sapling Stratum (Plot size: 30 foot radius	5%	Vaa	EAC	OBL species x 1 =
1. Liquidambar styraciflua		Yes	FAC	FACW species x 2 =
2. Acer rubrum	5%	Yes	FAC	FAC species x 3 =
3. Persea borbonia	10%	Yes	FACW	FACU species x 4 =
4 Îlex opaca	5%	Yes	FAC	UPL species x 5 =
5				Column Totals: (A) (B)
5				Column Totals (A) (B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
20 foot radius	25%	= Total Cov	er	
Shrub Stratum (Plot size: 30 foot radius)	000/		E 4 0) 4 /	Dominance Test is >50%
1. Ilex coriacea	30%	Yes	FACW	Prevalence Index is ≤3.0 ¹
2. Alnus serrulata	10%	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Cyrilla racemiflora	10%	Yes	FACW	
<u> </u>	_			¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
6				Definitions of Vegetation Strata:
7				Tree – Woody plants, excluding woody vines,
E Control Control	50%	= Total Cov	er	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 5 foot radius)				(7.6 cm) or larger in diameter at breast height (DBH).
1. Smilax rotundifolia	5%	Yes	FAC	
Arundinaria gigantea	10%	Yes	FACW	Sapling – Woody plants, excluding woody vines,
3 Sphagnum moss	20%	Yes	OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4				Shrub – Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 6 m) in height.
6				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				Woody vine – All woody vines, regardless of height.
10				Trody vino 7 in noody vinos, regardless of noight.
11				
12				
E fact radius	35%	= Total Cov	er	
Woody Vine Stratum (Plot size: 5 foot radius)				
1. Smilax laurifolia	10%	Yes	FACW	
2. Vitis rotundifolia	10%	Yes	FAC	
3.				
4				Hydrophytic
5	200/			Vegetation
	20%	= Total Cov	er	Present? Yes No D
Remarks: (If observed, list morphological adaptations be	low)			
Remarks. (II observed, list morphological adaptations be	iow).			
Hydrophytic vegetation was observed at this d	ata point.			
, , , ,				

Sampling Point: Wetland B

Profile Des	cription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	n the absence of in	dicators.)			
Depth	Matrix			ox Feature							
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Rem	narks		
1-16"	10 YR 2/1	90% 5	5 YR 5/6	10%	С	M	l. clay				
				_							
	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covere	d or Coat	ed Sand G		n: PL=Pore Li			
Hydric Soil	Indicators:						Indicators for F	roblematic H	ydric So	oils³:	
Histosol	, ,		Polyvalue B				· _				
	pipedon (A2)		Thin Dark S					(A10) (LRR S)			
_	istic (A3)		Loamy Mucl			R 0)		ertic (F18) (ou			-
	en Sulfide (A4)		Loamy Gley		(F2)			oodplain Soils			S, T)
	d Layers (A5)	D T 11)	Depleted Ma	, ,	- 0)			Bright Loamy	Soils (F2	20)	
	Bodies (A6) (LRR Lucky Mineral (A7) (L		Redox Dark Depleted Da		,		(MLRA 15	เ งษ) Material (TF2	`		
	resence (A8) (LRR		Redox Depr		` '		_	w Dark Surfac	,	\ (I RR	T II)
	uck (A9) (LRR P, T)		Marl (F10) (I	,	0)		= '	ain in Remarks	` '	, (LIXIX	1, 0,
	d Below Dark Surfa		Depleted Oc		(MLRA 1	151)	<u> </u>		-,		
Thick D	ark Surface (A12)	, ,	Iron-Mangar	nese Mass	ses (F12)	(LRR O, P,	, T) ³ Indicators	of hydrophytic	c vegeta	tion an	d
Coast P	rairie Redox (A16)	(MLRA 150A)	Umbric Surfa	ace (F13)	(LRR P,	Γ, U)	wetland	hydrology mus	st be pre	sent,	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or pro	blematio	٥.	
	Bleyed Matrix (S4)		Reduced Ve								
	Redox (S5)		Piedmont FI								
	Matrix (S6)	C T II)	Anomalous	Bright Loa	my Soils	(F20) (MLF	RA 149A, 153C, 153	D)			
	rface (S7) (LRR P, Layer (if observed										
Type:	Layer (II observed	,.									
, , , <u> </u>	ches):						Hydric Soil Pres	ent? Yes	×	No	
Remarks:	oneo).						Tiyano con i res				
TCHIarks.											
II											
Hydric soil	s were observed	at this data	point.								

Proiect/Site: Conder Mega Site	City/County: Lugoff/ Kershaw	Sampling Date: 03/07/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Upland B
Investigator(s): C. Daves/ A. White	Section Township Range. NW of the I-20	/ Hwy 601 interchange
Investigator(s): C. Daves/ A. White Landform (hillslope, terrace, etc.): Side Slope Subregion (LRR or MLRA): LRR-P, MLRA-136 Lat: 34.176 Soil Map Unit Name: AeB - Ailey sand (0-6% slopes)	l ocal relief (concave, convex, none). Concav	ve Slope (%): 4%
Subregion (LRR or MLRA). LRR-P, MLRA-136	58 Long: -81.9882	Datum: NAD 83
Soil Man Unit Name: AeB - Ailey sand (0-6% slopes)	NWI classi	fication: Upland
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Ves Yes No (If no explain in	Remarks)
Are Vegetation, Soil, or Hydrology significantly		
Are Vegetation, Soil, or Hydrology naturally pro	blomatic? (If pooded, explain any answ	wore in Pomarke
SUMMARY OF FINDINGS – Attach site map showing		
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No X	within a Wetland? Yes	□ No ⊠
Remarks:		
The sampling point is within an upland area adjacent to V	Wetland B.	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		pil Cracks (B6)
Surface Water (A1) Water-Stained L		/egetated Concave Surface (B8)
High Water Table (A2) Aquatic Fauna (Patterns (B10)
Saturation (A3) Marl Deposits (B	315) (LRR U) Moss Trim	Lines (B16)
Water Marks (B1) Hydrogen Sulfid		n Water Table (C2)
	· • • • • • • • • • • • • • • • • • • •	urrows (C8)
Drift Deposits (B3)		Visible on Aerial Imagery (C9)
		ic Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Other (Explain i		quitard (D3) ral Test (D5)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain i Field Observations:	FAC-Neuti	ai rest (D3)
Surface Water Present? Yes No Depth (inches)		
Water Table Present? Yes No Depth (inches)		
Saturation Present? Yes No Depth (inches)	: Wetland Hydrology Prese	ent? Yes 🔲 No 🗵
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo	s previous inspections) if available:	
Describe recorded Data (officially gauge, monitoring well, acrial priote	s, previous inspections), il available.	
Remarks:		
Wetland hydrology indicators were not observed at this dat	a point.	l l
		l l
		l l

Sampling	Point:	Upland B

20 fact radius	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 foot radius		Species?		Number of Dominant Species	
1. Quercus falcata	50%	Yes	FACU	That Are OBL, FACW, or FAC: 4	(A)
2				Total Number of Dominant	
3				0	(B)
4					` '
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50%	(A/B)
6.				That Ale Obl., FACW, of FAC.	(A/D)
7		. ———		Prevalence Index worksheet:	
· .	50%	= Total Co		Total % Cover of: Multiply by:	_
Sapling Stratum (Plot size: 30 foot radius)		_ 10tal Co	ver	OBL species x 1 =	
1 Quercus falcata	10%	Yes	FACU	FACW species x 2 =	
Prunus serotina	20%	Yes	FACU	FAC species x 3 =	
	_			FACU species x 4 =	
3		. ———		UPL species x 5 =	
4		· 			
5				Column Totals: (A)	- (B)
6		. ———		Prevalence Index = B/A =	
7		· ———		Hydrophytic Vegetation Indicators:	
30 foot radius	30%	= Total Cov	er		
Shrub Stratum (Plot size: 30 foot radius) 1 Persea borbonia	10%	Yes	FACW	Dominance Test is >50%	
	10%			Prevalence Index is ≤3.0 ¹	
2. Quercus falcata	10%	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain	1)
3					
4				¹ Indicators of hydric soil and wetland hydrology m	ust
5				be present, unless disturbed or problematic.	
6.				Definitions of Vegetation Strata:	
7.					
	20%	= Total Cov	or	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3	in
Herb Stratum (Plot size: 5 foot radius		- Total Gov	CI .	(7.6 cm) or larger in diameter at breast height (DB	
1. Smilax rotundifolia	10%	Yes	FAC		,
2. Arundinaria gigantea	20%	Yes	FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and les	cc
3.				than 3 in. (7.6 cm) DBH.	33
			-		
4				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
5		. ———		approximately 5 to 20 ft (1 to 5 m) in neight.	
6		· 		Herb - All herbaceous (non-woody) plants, includ	
7				herbaceous vines, regardless of size. Includes we plants, except woody vines, less than approximate	oody alv
8				3 ft (1 m) in height.	Jiy
9		· ——			
10				Woody vine – All woody vines, regardless of height	Jht.
11		<u> </u>			
12					
5 foot radius	30%	= Total Cov	er		
Woody Vine Stratum (Plot size: 5 foot radius	400/	V	E40		
1. Vitis rotundifolia	10%	Yes	FAC		,
2					
3					
4					
5				Hydrophytic Vegetation	
	10%	= Total Cov	er	Present? Yes No	
Remarks: (If observed, list morphological adaptations be	eiow).				
Hydrophytic vegetation was observed at this d	ata point.				
	•				

Sampling Point: Upland B

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence	of indicato	rs.)			
Depth	Matrix		Redo	x Features	s							
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Rem	arks		
1-16"	10 YR 4/4	100%					sand					
												-
	-			_								
												-
1							. 2					
	oncentration, D=De	pletion, RM=R	teduced Matrix, C	S=Covered	d or Coate	ed Sand Gr		ation: PL=				
Hydric Soil							Indicators		-	dric So	oils":	
Histoso	, ,		Polyvalue Be				_					
	pipedon (A2)		Thin Dark S					uck (A10) (. ,			
	istic (A3)		Loamy Muck			R O)		ed Vertic (F				
	en Sulfide (A4)		Loamy Gley		F2)			nt Floodpla		. , .		S, T)
	d Layers (A5)	D T II)	Depleted Ma	. ,	-0)			lous Bright	Loamy	SOIIS (F2	20)	
	Bodies (A6) (LRR		Redox Dark	•	,			A 153B)	-L (TEO)			
	ucky Mineral (A7) (L		Depleted Da		` '		_	rent Materi nallow Dark	٠,		. /I DD	T
	resence (A8) (LRR uck (A9) (LRR P, T)		Redox Depr		8)		= '	nallow Dark Explain in F		` ,	(LKK	1, 0)
	d Below Dark Surfa		Depleted Oc		(MI DA 1	51\	Other (⊏хріаіп іп г	temarks)		
	ark Surface (A12)	Ce (ATT)	Iron-Mangar	, ,	•	•	T) ³ Indica	ators of hyd	Ironhytic	veneta	tion an	d
	rairie Redox (A16)	(MI RA 150A)						and hydrolo		_		u
	Mucky Mineral (S1)		Delta Ochric			, 0,		ss disturbe				
	Gleyed Matrix (S4)	(2 0, 0)	Reduced Ve			OA. 150B)		oo alotarbo	a or pro	J.O. Hatie		
	Redox (S5)		Piedmont Fl									
	d Matrix (S6)						A 149A, 153C,	153D)				
	ırface (S7) (LRR P,	S, T, U)		Ü	,	, ,		,				
Restrictive	Layer (if observed):								-		
Type:												
Depth (in	ches):						Hydric Soil	Present?	Yes		No	×
Remarks:	,											
T tomanto.												
Hvdric soil	s were not obser	ved at this d	atapoint.									

Proiect/Site: Conder Mega Site	ity/County: Lugoff/ Kershaw	Sampling Date: 03/22/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Wetland D
Investigator(s): C. Daves/ A. White	ection Township Range. NE of the I-20/	Hwy 601 interchange
Investigator(s): C. Daves/ A. White Landform (hillslope, terrace, etc.): Drainageway Subregion (LRR or MLRA): LRR-P, MLRA-136 Soil Map Unit Name: AeB - Ailey sand (0-6% slopes)	ocal relief (concave, convex, none). Concav	re Slone (%). 2%
Subregion (LRR or MLRA): LRR-P, MLRA-136 Lat: 34.1923	3 Long: -80.6915	NAD83
Soil Man Unit Name: AeB - Ailey sand (0-6% slopes)	NWI classif	ication: PFO1B
Are climatic / hydrologic conditions on the site typical for this time of year	2 Ves Yes No (If no explain in	Pemarks)
Are Vegetation, Soil, or Hydrology significantly di		
Are Vegetation, Soil, or Hydrology naturally probl	(If pooded, explain any angu-	ore in Pomarks
SUMMARY OF FINDINGS – Attach site map showing s		
Hydric Soil Present? Yes No	Is the Sampled Area	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes No Wetland Hydrology Present?	within a Wetland? Yes	<u> </u>
Remarks:		
The sampling point is within Wetland D.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		il Cracks (B6)
		egetated Concave Surface (B8)
		atterns (B10)
Saturation (A3)	15) (LRR U) Moss Trim	Lines (B16)
Water Marks (B1) Hydrogen Sulfide	Odor (C1) Dry-Seasor	n Water Table (C2)
	oheres on Living Roots (C3) 📙 Crayfish Bu	• •
☐ Drift Deposits (B3) ☐ Presence of Redu		Visible on Aerial Imagery (C9)
		c Position (D2)
Iron Deposits (B5) Thin Muck Surface	· ` '	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in	Remarks) FAC-Neutra	al Test (D5)
Field Observations: Surface Water Present? Yes No Depth (inches):	1-3"	
Water Table Present? Yes X No Depth (inches):		
Saturation Present? Yes No Depth (inches):		ent? Yes 🗵 No 🔲
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:	
Remarks:		
Wetland hydrology indicators were observed at this data poin	nt.	

20 foot radius	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 foot radius) 1 Pinus serotina	<u>% Cover</u> 10%	Species?	Status FACW	Number of Dominant Species	
	10%	Yes Yes	FAC	That Are OBL, FACW, or FAC: 12 (A	.)
2. Liriodendron tulipifera			FAC	Total Number of Dominant	
3. Liquidambar styraciflua	20%	res	FAC	Species Across All Strata: 12 (B)
4				Percent of Dominant Species	
5					/B)
6					
7				Prevalence Index worksheet:	
20 ft div	40%	= Total Cov	er	Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 30 foot radius)	400/		540	OBL species x 1 =	
1. Liquidambar styraciflua	10%		FAC	FACW species x 2 =	
2. Acer rubrum	10%		FAC	FAC species x 3 =	
3. Persea borbonia	10%	Yes	FACW	FACU species x 4 =	
4				UPL species x 5 =	
5				Column Totals: (A) (l)	B)
6.					,
7				Prevalence Index = B/A =	
r	30%	= Total Cove	or.	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 30 foot radius		- Total Cove	5 1	Dominance Test is >50%	
1. Ilex coriacea	30%	Yes	FACW	Prevalence Index is ≤3.0 ¹	
Acer rubrum	10%	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
Rersea borbonia	10%	Yes	FACW		
				¹ Indicators of hydric soil and wetland hydrology mus	t
4				be present, unless disturbed or problematic.	•
5				Definitions of Vanatation Charter	
6				Definitions of Vegetation Strata:	
7	50%			Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 foot radius)	50 /0	= Total Cove	er	approximately 20 ft (6 m) or more in height and 3 in.	
1 Smilax rotundifolia	5%	Yes	FAC	(7.6 cm) or larger in diameter at breast height (DBH)).
2. Arundinaria gigantea	- 5 %		FACW	Sapling – Woody plants, excluding woody vines,	
				approximately 20 ft (6 m) or more in height and less	
3				than 3 in. (7.6 cm) DBH.	
4				Shrub – Woody plants, excluding woody vines,	
5				approximately 3 to 20 ft (1 to 6 m) in height.	
6				Herb – All herbaceous (non-woody) plants, including	q
7				herbaceous vines, regardless of size. Includes woo	dy
8				plants, except woody vines, less than approximately 3 ft (1 m) in height.	,
9				3 it (1 iii) iii neight.	
10				Woody vine - All woody vines, regardless of height	
11					
12					
	10%	= Total Cove	er		
Woody Vine Stratum (Plot size: 5 foot radius					
1. Smilax laurifolia	10%	Yes	FACW		
2					
3.					
4.					
				Hydrophytic	
5	10%	= Total Cove		Vegetation Present? Yes ⊠ No	
		- Total Cove	3 1	Tresent: Tes No	
Remarks: (If observed, list morphological adaptations be	elow).				
Hydrophytic vegetation was observed at this d	ata noint				
i iyaropiiyilo vegetallori was observed at tilis d	αια μυπι.				

Sampling Point: Wetland D

SOIL

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the	indicator	or confirm	n the absence of indic	cators.)
Depth	Matrix			x Feature		. 2		
(inches) 1-8"	Color (moist) 10 YR 3/2	90% 5	Color (moist) 5 YR 5/6	<u>%</u> 10%	C Type ¹	M Loc²	Texture loam	Remarks
) IN 3/0	10 /6		· IVI		
9-16"	10 YR 6/1	100%					I. sand	
				_				
					-			
				· ·	-			
					-	·		
1							2.	
	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covere	d or Coat	ed Sand G		PL=Pore Lining, M=Matrix.
Hydric Soil					(00) (DD 0 T 1	_	blematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Be Thin Dark Su				U)	
Black Hi	. , ,		Loamy Muck					c (F18) (outside MLRA 150A,B)
_	n Sulfide (A4)		Loamy Gleye			,	_	odplain Soils (F19) (LRR P, S, T)
	l Layers (A5)		Depleted Ma				Anomalous Bridge	ight Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark	,	,		(MLRA 153E	
	cky Mineral (A7) (L		Depleted Da		. ,		Red Parent Ma	` '
	esence (A8) (LRR I		Redox Depre		-8)		Other (Explain	Dark Surface (TF12) (LRR T, U)
	Below Dark Surfac		Depleted Oc		(MLRA 1	51)	Other (Explain	in Kemarks)
	ark Surface (A12)	,	Iron-Mangan				, T) ³ Indicators of	hydrophytic vegetation and
	rairie Redox (A16) (T, U)	wetland hyd	drology must be present,
	lucky Mineral (S1) ((LRR O, S)	Delta Ochric					urbed or problematic.
	Sleyed Matrix (S4)		Reduced Ve					
= "	ledox (S5) Matrix (S6)						49A) RA 149A, 153C, 153D)	
	rface (S7) (LRR P,	S, T, U)	/ triornalous !	ongni Loa	illy Collo	1 20) (IIILI	(A 140A, 1000, 100D)	
	_ayer (if observed)							
Type:								
Depth (in	ches):		<u></u>				Hydric Soil Presen	t? Yes 🗵 No 🔲
Remarks:							1	
			_					
Hydric soil:	were observed	at this data	point.					

Proiect/Site: Conder Mega Site	:itv/County: Lugoff/ Kershaw	Sampling Date: 03/22/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Upland D
Investigator(s): C. Daves/ A. White	Section Township Range. NW of the I-2	0/ Hwy 601 interchange
Landform (hillslope terrace etc.): Side Slope	ocal relief (concave, convex, none). Conca	ave Slope (%): 4%
Subregion (LRR or MLRA): LRR-P, MLRA-136	8 Long: -81.9882	Datum: NAD 83
Investigator(s): C. Daves/ A. White Landform (hillslope, terrace, etc.): Side Slope Subregion (LRR or MLRA): LRR-P, MLRA-136 Soil Map Unit Name: BaB - Blanton sand (0-6% slopes) Are climatic / hydrologic conditions on the site typical for this time of year	NWI clas	sification. Upland
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes Yes No (If no explain	in Remarks)
Are Vegetation, Soil, or Hydrology significantly d	(isturbed? Are "Normal Circumstance	es" present? Yes X No C
Are Vegetation , Soil , or Hydrology naturally prob	plamatic? (If needed, explain any any	swers in Remarks)
SUMMARY OF FINDINGS – Attach site map showing		
Lhudraphytic Vagatation Present?		
Hydric Soil Present? Yes No X	Is the Sampled Area	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes	within a Wetland? Yes _	No X
Remarks:	L	
The sampling point is within an upland area adjacent to W	/etland D.	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary In	dicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface S	Soil Cracks (B6)
Surface Water (A1) ■ Water-Stained Let	eaves (B9) Sparsely	Vegetated Concave Surface (B8)
High Water Table (A2) Aquatic Fauna (E	313) 🖳 Drainage	Patterns (B10)
Saturation (A3) Marl Deposits (B		m Lines (B16)
☐ Water Marks (B1) ☐ Hydrogen Sulfide		son Water Table (C2)
		Burrows (C8)
Drift Deposits (B3) Presence of Red		on Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Red Thin Muck Surface		ohic Position (D2) Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		utral Test (D5)
Field Observations:	<u> </u>	
Surface Water Present? Yes No Depth (inches):		
Water Table Present? Yes No Depth (inches):		
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Pre	esent? Yes 🔲 No 🔀
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:	
Remarks:		
	noint	
	point.	

Sampling	Point:	Upland	D

20 fact radius	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 foot radius		Species?		Number of Dominant Species	
1. Quercus falcata	30%	Yes	FACU	That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 6	(B)
4					` ,
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0%	(A/B)
6.				That Ale OBE, I AGW, OI I AG.	(A/D)
7.		·		Prevalence Index worksheet:	
	30%	= Total Cov	/or	Total % Cover of: Multiply by:	_
Sapling Stratum (Plot size: 30 foot radius)		- Total Co	761	OBL species x 1 =	_
1. Quercus falcata	10%	Yes	FACU	FACW species x 2 =	
Quercus marilandica	10%	Yes	FACU	FAC species x 3 =	
3.				FACU species x 4 =	
		· 		UPL species x 5 =	
4					
5				Column Totals: (A)	_ (B)
6		· 		Prevalence Index = B/A =	
7	000/			Hydrophytic Vegetation Indicators:	
30 foot radius	20%	= Total Cov	er	Dominance Test is >50%	
Shrub Stratum (Plot size: 30 foot radius) Quercus marilandica	10%	Yes	FACU		
	10%	Yes	FACU	Prevalence Index is ≤3.0 ¹	,
2. Cornus florida				Problematic Hydrophytic Vegetation ¹ (Explain	n)
3					
4				¹ Indicators of hydric soil and wetland hydrology m	nust
5				be present, unless disturbed or problematic.	
6				Definitions of Vegetation Strata:	
7.					
	20%	= Total Cov	er	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3	in
Herb Stratum (Plot size: 5 foot radius		rotal Gov	01	(7.6 cm) or larger in diameter at breast height (DE	
1. Pteridium aquilinium	10%	Yes	UPL		,
2.				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and le	
3.				than 3 in. (7.6 cm) DBH.	,00
4.					
5				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
	_			approximately of to 20 ft (1 to 0 fill) in neight.	
6	_			Herb – All herbaceous (non-woody) plants, include	
7				herbaceous vines, regardless of size. Includes w plants, except woody vines, less than approximat	
8				3 ft (1 m) in height.	.O.y
9					
10	_			Woody vine – All woody vines, regardless of height	gnt.
11	_				
12					
5 foot radius	10%	= Total Cov	er		
Woody Vine Stratum (Plot size: 5 foot radius)					
1					
2					
3					
4					
5				Hydrophytic Vegetation	
		= Total Cov	er	Present? Yes No X	
Remarks: (If observed, list morphological adaptations be	eiow).				
Hydrophytic vegetation was not observed at th	is data po	int.			
· · · · · · · · · · · · · · · · · · ·	·				

Sampling Point: Upland D

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of indi	ators.)			
Depth	Matrix			x Feature							
(inches)	Color (moist)	<u> %</u> _	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	narks		
1-12"	10 YR 4/6	100%					I. sand				
12-16"	10 YR 7/6	100%					sand				
	-										
	-										
1 _{Type:} C=C	oncentration, D=De	nlotion DM-E	Poducod Matrix C	S-Covere	d or Coots	d Sand Cr	roino ² l contion:	DI -Doro Li	ning M-	-Motrix	
Hydric Soil		pietion, Rivi-R	teduced Matrix, C.	S-Covered	u or Coale	a Sana Gr	rains. ² Location: Indicators for Pro				
Histosol			Polyvalue Be	Now Surfa	00 (89) (1	DD C T I			yano o	, iio	
	pipedon (A2)		Thin Dark Su				2 cm Muck (A				
	istic (A3)		Loamy Muck				Reduced Verti			LRA 15	50A.B)
_	en Sulfide (A4)		Loamy Gley			-,	Piedmont Floo	. , .			
	d Layers (A5)		Depleted Ma		` ,		Anomalous Br				,
	Bodies (A6) (LRR I		Redox Dark	Surface (F	- 6)		(MLRA 153E	3)			
	ucky Mineral (A7) (L		Depleted Da		. ,		Red Parent Ma	•	,		
	resence (A8) (LRR		Redox Depre	`	8)) (LRR	T, U)
	uck (A9) (LRR P, T)		Marl (F10) (I				Other (Explain	in Remarks	s)		
	d Below Dark Surfa	ce (A11)	Depleted Oc				- 3, 1; ,				
	ark Surface (A12)	(BAL DA 450A)	Iron-Mangar		. , .		•		_		d
	rairie Redox (A16) (Mucky Mineral (S1)		Umbric Surfa			, U)	wetland hyd unless distu				
	Bleyed Matrix (S4)	(LKK 0, 3)	Reduced Ve			0A 150B)		irbed or pro	biemauc	j.	
	Redox (S5)		Piedmont Flo								
	Matrix (S6)						RA 149A, 153C, 153D)				
	rface (S7) (LRR P,	S, T, U)	_	Ü	`	, (, ,				
Restrictive	Layer (if observed):									
Type:											
Depth (in	ches):						Hydric Soil Presen	t? Yes_		No	×
Remarks:											
Hydric soil	s were not obser	ved at this d	atapoint.								

Proiect/Site: Conder Mega Site	_{v/County:} Lugoff/ Kershaw	Sampling Date: 04/8/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Wetland J
Investigator(s): C. Daves/ A. White	ection Township Range. NE of the I-20)/ Hwy 601 interchange
Landform (hillslope terrace etc.): Side slope	cal relief (concave, convex, none). Conve	ex Slope (%): 2%
Subregion (LRR or MLRA): LRR-P, MLRA-136 Lat: 34.2063	Long: -80.7212	Datum. NAD83
Investigator(s): C. Daves/ A. White Landform (hillslope, terrace, etc.): Side slope Subregion (LRR or MLRA): LRR-P, MLRA-136 Soil Map Unit Name: AeC - Ailey sand (6-10% slopes)	NWI class	esification:
Are climatic / hydrologic conditions on the site typical for this time of year?	Ves Yes No (If no explain	in Remarks)
Are Vegetation, Soil, or Hydrology significantly dis		
Are Vegetation, Soil, or Hydrology naturally proble	omatic? (If peeded, explain any an	swore in Domarks
SUMMARY OF FINDINGS – Attach site map showing sa		
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No X	within a Wetland? Yes _	No
Remarks:		
The sampling point is within Wetland J.		
The sampling point is within wetteria s.		
HYDROLOGY		
Wetland Hydrology Indicators:		dicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Soil Cracks (B6)
Surface Water (A1) Water-Stained Lea		Vegetated Concave Surface (B8)
▼ High Water Table (A2) □ Aquatic Fauna (B1 ▼ Saturation (A3) □ Marl Deposits (B1)		Patterns (B10)
Saturation (A3) Water Marks (B1) Marl Deposits (B1: Hydrogen Sulfide		m Lines (B16) son Water Table (C2)
		Burrows (C8)
Drift Deposits (B3) Presence of Redu	· · · ·	on Visible on Aerial Imagery (C9)
		phic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surface	· · · · · · · · · · · · · · · · · · ·	Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Uther (Explain in F		utral Test (D5)
Field Observations:	211	
Surface Water Present? Yes X No Depth (inches): 1	-3	
Water Table Present? Yes X No Depth (inches): _		
Saturation Present? Yes X No Depth (inches): _ (includes capillary fringe)	Wetland Hydrology Pre	esent? Yes X No No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:	
Remarks:		
Wetland hydrology indicators were observed at this data poin	ıt.	
and the same and t		

Sampling	Point:	Wetland J

00 ()	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 foot radius)	% Cover	Species?	Status	Number of Dominant Species	
1				' 0	(A)
2					. ,
				Total Number of Dominant	(D)
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
5					(A/B)
6					` ′
7.				Prevalence Index worksheet:	
		= Total Cov		Total % Cover of: Multiply by:	_
Sapling Stratum (Plot size: 30 foot radius)		- 10tal C01	/61	OBL species x 1 =	
1 Liquidambar styraciflua	10%	Yes	FAC	FACW species x 2 =	
2 Acer rubrum	10%	Yes	FAC		
				FAC species x 3 =	
3				FACU species x 4 =	=
4	_			UPL species x 5 =	_
5				Column Totals: (A)	(B)
				()	- ()
6				Prevalence Index = B/A =	
7	000/			Hydrophytic Vegetation Indicators:	_
20 foot radius	20%	= Total Cov	er		
Shrub Stratum (Plot size: 30 foot radius)				Dominance Test is >50%	
1. Ilex coriacea	40%	Yes	FACW	Prevalence Index is ≤3.0 ¹	
2 Acer rubrum	10%	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain	1)
Cyrilla racemiflora	10%	Yes	FACW		
4 Baccharis halmifolia	10%	Yes	FAC	Indicators of hydric call and wattend hydrology m	at
···		163	1 // 0	¹ Indicators of hydric soil and wetland hydrology m be present, unless disturbed or problematic.	ust
5				be present, unless distarbed of presidentatio.	
6				Definitions of Vegetation Strata:	
7.					
	70%	= Total Cov		Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 foot radius)		- 10tal C0V	ы	approximately 20 ft (6 m) or more in height and 3 (7.6 cm) or larger in diameter at breast height (DE	
1 Carex spp.	10%	Yes	FACW	(7.0 cm) of larger in diameter at breast height (DE	,, i <i>i j</i> .
··-				Sapling – Woody plants, excluding woody vines,	
2				approximately 20 ft (6 m) or more in height and le	SS
3				than 3 in. (7.6 cm) DBH.	
4				Shrub – Woody plants, excluding woody vines,	
5				approximately 3 to 20 ft (1 to 6 m) in height.	
6				Herb – All herbaceous (non-woody) plants, include	
7				herbaceous vines, regardless of size. Includes w	oody
8				plants, except woody vines, less than approximate 3 ft (1 m) in height.	ery
9				on (1 m) in neight.	
10				Woody vine - All woody vines, regardless of height	ght.
11					
12	400/				
5 foot radius	10%	= Total Cov	er		
Woody Vine Stratum (Plot size: 5 foot radius	400/	V/	E 4 0\4/		
1. Smilax laurifolia	10%	Yes	FACW		
2					
3.					
4				Hydrophytic	
5	100/			Vegetation	
	10%	= Total Cov	er	Present? Yes No D	
Developed (If the control list recomb deviced adoutations had					
Remarks: (If observed, list morphological adaptations bel	ow).				
Hydrophytic vegetation was observed at this da	ata noint				
, a. spiri, as regulation was observed at this de	point.				

Sampling Point: Wetland J

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ind	cators.)			
Depth	Matrix			x Feature							
(inches) 1-6"	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Rem	narks		
	10 YR 2/1	100%					sand				<u>.</u>
6-16"	10 YR 4/1	100%					sand				
											<u>.</u>
	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covered	d or Coate	d Sand Gr		PL=Pore Li			ζ.
Hydric Soil							Indicators for Pro		ydric So	oils³:	
Histosol	, ,		Polyvalue Be				· =				
☐ Histic Ep☐ Black Hi	oipedon (A2)		☐ Thin Dark Su☐ Loamy Muck				2 cm Muck (A	, ,		I D A 1/	50 A B)
_	n Sulfide (A4)		Loamy Gley			. 0)	Piedmont Flo				-
	Layers (A5)		Depleted Ma		/		Anomalous B				, 0, .,
Organic	Bodies (A6) (LRR I		Redox Dark		- 6)		(MLRA 153	-	`	,	
	cky Mineral (A7) (L		Depleted Da		. ,		Red Parent M	•	,		
	esence (A8) (LRR I		Redox Depre	`	8)		Very Shallow) (LRR	T, U)
	ck (A9) (LRR P, T)		₩ Marl (F10) (I			-4)	Other (Explai	n in Remarks	3)		
	l Below Dark Surfac ork Surface (A12)	ce (A11)	Depleted Oculor Iron-Mangar	, ,	•	•	T) ³ Indicators of	f bydrophyti	o vogoto	tion or	, d
_	rairie Redox (A16) ((MI RA 150A)			. , .		•	drology mus	-		iu
	lucky Mineral (S1) (Delta Ochric			, 0,		urbed or pro			
	leyed Matrix (S4)	(======	Reduced Ve			0A, 150B)					
	edox (S5)		Piedmont Flo								
Stripped	Matrix (S6)		Anomalous I	Bright Loar	my Soils (I	F20) (MLR	RA 149A, 153C, 153D				
	face (S7) (LRR P,						1				
	_ayer (if observed)):									
Type:									×		
	ches):		_				Hydric Soil Prese	nt? Yes_		No _	
Remarks:											
Hydric soils	were observed	at this datap	ooint.								

Proiect/Site: Conder Mega Site	_{v/County:} Lugoff/ Kershaw	Sampling Date: 04/8/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Upland J
Investigator(s): C. Daves/ A. White	ection Township Range. NW of the I-20/	Hwy 601 interchange
Landform (hillslope terrace etc.): Side Slope	cal relief (concave, convex, none). Convex	Slone (%): 8%
Subregion (LRR or MLRA): LRR-P, MLRA-136 Lat: 34.1768	Long: -81.9882	Datum: NAD 83
Soil Man Unit Name: AeC - Ailey sand (6-10% slopes)	NWI classif	fication. Upland
Investigator(s): C. Daves/ A. White Security Sec	Yes Yes No (If no explain in	Remarks)
Are Vegetation, Soil, or Hydrology significantly dis	eturbed? Are "Normal Circumstances"	nresent? Yes X No C
Are Vegetation, Soil, or Hydrology naturally proble	omatic? (If peeded, explain any answ	vors in Pomarks
SUMMARY OF FINDINGS – Attach site map showing sa		
		<u> </u>
Hydrophytic Vegetation Present? Yes No No	Is the Sampled Area	
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	within a Wetland? Yes	No X
Remarks:		
The sampling point is within an upland area adjacent to We	etland J.	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		il Cracks (B6)
Surface Water (A1) Water-Stained Lea		egetated Concave Surface (B8)
High Water Table (A2) Aquatic Fauna (B1)		Patterns (B10)
Saturation (A3) Marl Deposits (B1:	5) (LRR U) Moss Trim	Lines (B16)
Water Marks (B1) Hydrogen Sulfide		n Water Table (C2)
	neres on Living Roots (C3) 📙 Crayfish Bu	, ,
Drift Deposits (B3)	_	Visible on Aerial Imagery (C9)
	· · · ·	ic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surface ☐ Other (Explain in F	· · ·	al Test (D5)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Field Observations:	TAC-Neutra	<u>ai rest (D5)</u>
Surface Water Present? Yes No Depth (inches):		
Water Table Present? Yes No Depth (inches):		
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Prese	ent? Yes 🔲 No 🗵
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos,	nrevious inspections) if available:	
Describe recorded bata (stream gaage, montering well, dental photos,	previous inspections), ii available.	
Remarks:		
Wetland hydrology indicators were not observed at this data	DOINT.	

Sampling	Point:	Upland	J

20 foot and the	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 foot radius)	% Cover	Species?	Status	Number of Dominant Species	
1					(A)
2				T	
3.				Total Number of Dominant Species Across All Strata: 5	(B)
				Opecies Across Air Otrata.	(D)
4				Percent of Dominant Species That Are OBL FACW or FAC: 40%	
5				That Are OBL, FACW, or FAC: 40%	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
30 foot radius		= Total Co	ver		
Sapling Stratum (Plot size: 30 foot radius)				OBL species x 1 =	
1				FACW species x 2 =	_
2				FAC species x 3 =	_
3				FACU species x 4 =	_
4				UPL species x 5 =	
5.				Column Totals: (A)	
				()	_ (-)
6				Prevalence Index = B/A =	_
7				Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 30 foot radius		= Total Cov	er	Dominance Test is >50%	
Pinus taeda	10%	Yes	FAC		
				Prevalence Index is ≤3.0 ¹	
2. Pinus palustris	10%	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain	n)
3					
4				¹ Indicators of hydric soil and wetland hydrology m	nust
5.				be present, unless disturbed or problematic.	
				Definitions of Vegetation Strata:	
6				Definitions of Vegetation Strata.	
7	20%			Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 foot radius	20 /0	= Total Cov	er	approximately 20 ft (6 m) or more in height and 3	
1 Pteridium aquilinium	20%	Yes	UPL	(7.6 cm) or larger in diameter at breast height (DE	3H).
···	10%	Yes	FAC	Sapling – Woody plants, excluding woody vines,	
2. Andropogon virginicus				approximately 20 ft (6 m) or more in height and le	ess
3. Eupitorium capillifolium	10%	Yes	FACU	than 3 in. (7.6 cm) DBH.	
4				Shrub – Woody plants, excluding woody vines,	
5				approximately 3 to 20 ft (1 to 6 m) in height.	
6.					
7				Herb – All herbaceous (non-woody) plants, include herbaceous vines, regardless of size. Includes w	
				plants, except woody vines, less than approximate	
8				3 ft (1 m) in height.	,
9				Maria de la Caracteria	
10				Woody vine – All woody vines, regardless of height	gnt.
11					
12					
E foot on the	40%	= Total Cov	er		
Woody Vine Stratum (Plot size: 5 foot radius					
1					
2					
3.					
4				Hydrophytic	
5				Vegetation Present? Yes □ No ☒	
		= Total Cov	er	Present? Yes L No L	
Remarks: (If observed, list morphological adaptations bel	ow).				
		4			
Hydrophytic vegetation was not observed at thi	s data po	ınt.			

Sampling Point: Upland J

SOIL

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of indi	cators.)			
Depth	Matrix			x Features							
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	<u>arks</u>		
1-8"	10 YR 5/6	100%					sand				
8-16"	10 YR 7/6	100%					sand				
1			Landrica and Martinica Co				214:	DI Dana I :-	-i N4-	N 4 = 4 = i	
Hydric Soil	oncentration, D=De	pletion, RIVI=R	reduced Matrix, C	S=Covered	or Coate	a Sana Gr	Indicators for Pro	PL=Pore Lir			
l 📥			D Dalamaka Da		(00) (1		_		,unc 30	, iii .	
Histosol	pipedon (A2)		Polyvalue Be				J)				
Black Hi	. , ,		Loamy Muck				Reduced Verti			RA 15	0A B)
_	n Sulfide (A4)		Loamy Gleye			. •,	Piedmont Floo	. , .			
	Layers (A5)		Depleted Ma		,		Anomalous Br				, ,
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		- 6)		(MLRA 153E	-	`	,	
5 cm Mu	icky Mineral (A7) (L	RR P, T, U)	Depleted Da		. ,		Red Parent Ma	, ,			
	esence (A8) (LRR I		Redox Depre	,	8)				. ,	(LRR	T, U)
	ick (A9) (LRR P, T)		Marl (F10) (L				Other (Explain	in Remarks)		
	Below Dark Surfac	ce (A11)	Depleted Oc	, ,	•	•	- 3, ,,				
	ark Surface (A12)	MI DA 450A)	Iron-Mangan		. , .		•		_		d
	rairie Redox (A16) (lucky Mineral (S1) (Umbric Surfa Delta Ochric			, U)	•	drology mus urbed or pro			
	Bleyed Matrix (S4)	(LKK U, 3)	Reduced Ve			0A 150B)		irbed or pro	Diemauc	<i>;</i> .	
	ledox (S5)		Piedmont Flo								
	Matrix (S6)						RA 149A, 153C, 153D)				
	rface (S7) (LRR P,	S, T, U)	_	9	, (, (, , , , , , , ,				
	_ayer (if observed)										
Type:											
Depth (in	ches):						Hydric Soil Presen	t? Yes		No	×
Remarks:	<u> </u>										
Hydric soils	were not observ	ved at this d	atapoint.								

Proiect/Site: Conder Mega Site	_{v/County:} Lugoff/ Kershaw	Sampling Date: 04/13/2011
Project/Site: Conder Mega Site Applicant/Owner: Kershaw County Economic Development	State: SC	Sampling Point: Wetland N
Investigator(s): C. Daves/ A. White	ection Township Range. NE of the I-20/	Hwy 601 interchange
Landform (hillslope terrace etc.): Slope	cal relief (concave, convex, none). Concav	ve Slope (%): 2%
Subregion (LRR or MLRA): LRR-P, MLRA-136 Lat: 34.2056	Long: -80.7020	Datum: NAD83
Applicant/Owner: Kershaw County Economic Development Investigator(s): C. Daves/ A. White Landform (hillslope, terrace, etc.): Slope Subregion (LRR or MLRA): LRR-P, MLRA-136 Lat: 34.2056 Soil Map Unit Name: BaB - Blanton sand (0-6% slopes)	NWI classi	fication:
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes Yes No (If no explain in	Remarks)
Are Vegetation, Soil, or Hydrology significantly dis		
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, explain any ans.)	were in Remarks)
SUMMARY OF FINDINGS – Attach site map showing s		
Hydric Soil Present? Yes No Was No No	Is the Sampled Area	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes No O No O	within a Wetland? Yes	× No
Remarks:		
The sampling point is within Wetland N.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		pil Cracks (B6)
Surface Water (A1) Water-Stained Lea		regetated Concave Surface (B8)
High Water Table (A2) Aquatic Fauna (B1)		Patterns (B10)
Saturation (A3) Marl Deposits (B1)		Lines (B16)
Water Marks (B1) Hydrogen Sulfide		n Water Table (C2)
		urrows (C8)
☐ Drift Deposits (B3) ☐ Presence of Redu	ced Iron (C4) Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduc	ction in Tilled Soils (C6)	ic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surface	e (C7)	quitard (D3)
Inundation Visible on Aerial Imagery (B7) Under (Explain in F	Remarks) EAC-Neutr	ral Test (D5)
Field Observations:		
Surface Water Present? Yes No Depth (inches): _		
Water Table Present? Yes No Depth (inches):	<u></u>	ent? Yes 🗵 No
Saturation Present? Yes No Depth (inches): 4 (includes capillary fringe)	Wetland Hydrology Pres	ent? Yes No L
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:	
Remarks:		
Wetland hydrology indicators were observed at this data poin	it.	

Tree Stratum (Plot size: 30 foot radius)	Absolute	Dominant		Dominance Test worksheet:	
Pinus serotina	% Cover 20%	Species? Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 10 (A	`
2. Acer rubrum	20%		FAC	That Are OBL, FACW, or FAC.)
3.				Total Number of Dominant	١.
				Species Across All Strata: 10 (B)
4				Percent of Dominant Species That Are ORL FACW or FAC: 100%	(D)
5				That Are OBL, FACW, or FAC: 100% (A	/B)
7				Prevalence Index worksheet:	
	40%	= Total Cov	er	Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 30 foot radius)		10101 001		OBL species x 1 =	
_{1.} Pinus taeda	10%	Yes	FAC	FACW species x 2 =	
2. Acer rubrum	10%	Yes	FAC	FAC species x 3 =	
3. Persea borbonia	10%	Yes	FACW	FACU species x 4 =	
4				UPL species x 5 =	
5				Column Totals: (A) (I	B)
6				5 1 1 5 5 6	
7				Prevalence Index = B/A =	
	30%	= Total Cove	er	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 30 foot radius	200/	Voo		Dominance Test is >50%	
1. Ilex coriacea	30%	Yes Yes	FACW FACW	Prevalence Index is ≤3.0 ¹	
2. Cyrilla racemiflora	10%			Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Persea borbonia	10%	Yes	FACW	1	
4				¹ Indicators of hydric soil and wetland hydrology musi be present, unless disturbed or problematic.	t
5				be present, unless distarbed of problematic.	
6				Definitions of Vegetation Strata:	
7				Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 foot radius	50%	= Total Cove	er	approximately 20 ft (6 m) or more in height and 3 in.	
1. Osmunda cinnamomea	10%	Yes	FACW	(7.6 cm) or larger in diameter at breast height (DBH)	1-
				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				than 5 m. (7.5 cm) BBH.	
4				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
5				approximately 3 to 20 ft (1 to 6 fff) in height.	
6				Herb – All herbaceous (non-woody) plants, including	
7				herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately	
8				3 ft (1 m) in height.	
9				Woody vine – All woody vines, regardless of height.	
10				,,	
11.					
12	10%	= Total Cove	or .		
Woody Vine Stratum (Plot size: 5 foot radius		- Total Oov	5 1		
1. Smilax laurifolia	10%	Yes	FACW		
2					
3					
4					
5				Hydrophytic Vegetation	
	10%	= Total Cove	er	Present? Yes X No	
Remarks: (If observed, list morphological adaptations be	low)				
Remarks. (II observed, list morphological adaptations be	iow).				
Hydrophytic vegetation was observed at this d	ata point.				

Sampling Point: Wetland N

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence o	of indicato	rs.)			
Depth	Matrix		Redo	x Features	s							
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>		Rema	<u>arks</u>		
1-16"	10 YR 2/1	100%					loam					
							·					
1 _T			la di casal Matrico C	0-0			21	-ti DI-	Dana Lin		-N 4 4 i	
Hydric Soil	oncentration, D=De	pletion, RIVI=R	teduced Matrix, C	S=Covered	or Coate	ed Sand Gr	rains. Loc Indicators f	ation: PL=				ζ.
Ė			□ Debarelus B	alour Curfo	oo (CO) (I	DD C T I			-	unic oc	ліз .	
Histoso	pipedon (A2)		Polyvalue Be					uck (A9) (L uck (A10) (
	istic (A3)		Loamy Muck					ed Vertic (F	. ,	side MI	RA 1	50A B)
	en Sulfide (A4)		Loamy Gley			. •,		nt Floodpla				
	d Layers (A5)		Depleted Ma		,			ous Bright		. , .		, - , ,
	Bodies (A6) (LRR	P, T, U)	Redox Dark	. ,	⁻ 6)			A 153B)	,	,	,	
	ucky Mineral (A7) (L		Depleted Da	rk Surface	(F7)			rent Materi				
	resence (A8) (LRR		Redox Depr		8)		= '	nallow Dark		,) (LRR	T, U)
	uck (A9) (LRR P, T)		Marl (F10) (I				Other (E	Explain in F	Remarks)		
	d Below Dark Surfa	ce (A11)	Depleted Oc	, ,	•	•	3ı ı:					
	ark Surface (A12) rairie Redox (A16)	(MI DA 150A)	Iron-Mangar Umbric Surfa					ators of hydand hydrological and hydrolo		_		ıa
	Mucky Mineral (S1)		Delta Ochric			, 0)		ss disturbe				
	Gleyed Matrix (S4)	(LKK 0, 3)	Reduced Ve			0A 150B)		ss distuibe	d of proi	леттанс	۶.	
	Redox (S5)		Piedmont Fl									
	d Matrix (S6)						RA 149A, 153C,	153D)				
	ırface (S7) (LRR P,	S, T, U)	_		,	, ,		,				
Restrictive	Layer (if observed):										
Type:										_		_
Depth (in	ches):						Hydric Soil F	Present?	Yes	×	No	
Remarks:												
II												
Hydric soil	s were observed	at this datap	ooint.									

Project/Site: Conder Mega Site	City/County: Lugoff/ Kershaw	_ Sampling Date:
Applicant/Owner. Kershaw County Economic Development	State: SC	Sampling Point: Upland N
Investigator(s): C. Daves/ A. White	Section, Township, Range: NW of the I-20/	Hwy 601 interchange
Landform (hillslope, terrace, etc.): Side Slope	Local relief (concave, convex, none): Convex	Slope (%): 6%
Subragian (LDD or MLDA), LRR-P, MLRA-136 Lat. 34.17	768 _{Long:} -81.9882	Datum: NAD 83
Soil Map Unit Name: BaB - Blanton sand (0-6% slopes)	NWI classifi	
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 pr		
SUMMARY OF FINDINGS – Attach site map showing	· · · · · ·	,
	1	
Hydrophytic Vegetation Present? Yes No No No No No No No No No N	Is the Sampled Area	
Wetland Hydrology Present?	within a Wetland? Yes	<u> </u>
Remarks:		
The sampling point is within an upland area adjacent to	Wetland N.	
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) Water-Stained		egetated Concave Surface (B8)
High Water Table (A2) Aquatic Fauna		atterns (B10)
Saturation (A3) Marl Deposits	(B15) (LRR U) Moss Trim I	∟ines (B16)
☐ Water Marks (B1) ☐ Hydrogen Sulf	fide Odor (C1) $\ ar{oxdet}$ Dry-Seasor	water Table (C2)
	ospheres on Living Roots (C3) 🛭 📮 Crayfish Bu	rrows (C8)
	· /	Visible on Aerial Imagery (C9)
	· · · · · · · · · · · · · · · · · · ·	c Position (D2)
Iron Deposits (B5)	· · · · · · · · · · · · · · · · · · ·	` '
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain	n in Remarks)	ıl Test (D5)
Field Observations: Surface Water Present? Yes No Depth (inches	2).	
Water Table Present? Yes No Depth (inches	,	
Saturation Present? Yes No Depth (inches	s): Wetland Hydrology Prese	ent? Yes No 🗵
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photostream photostream photostream page)	tos, previous inspections), if available:	
Remarks:		
Tomano.		
Wetland hydrology indicators were not observed at this da	ata point.	
	F 5	

Sampling	Point:	Upland	Ν

20 foot radius	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 foot radius		Species?		Number of Dominant Species	
1. Pinus taeda	30%	Yes	FAC	That Are OBL, FACW, or FAC: 1	(A)
2. Quercus falcata	20%	Yes	FACU	Total Number of Dominant _	
3				Species Across All Strata: 7	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 14%	(A/B)
6					(' /
7				Prevalence Index worksheet:	
	50%	= Total Cov	/er	Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 30 foot radius)				OBL species x 1 =	_
1. Quercus falcata	20%	Yes	FACU	FACW species x 2 =	_
2. Cornus florida	20%	Yes	FACU	FAC species x 3 =	
3				FACU species x 4 =	_
4.				UPL species x 5 =	_
5.				Column Totals: (A)	(B)
6.					
7.				Prevalence Index = B/A =	_
	40%	= Total Cov		Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 30 foot radius)		- Total Cov	CI	Dominance Test is >50%	
_{1.} Vaccinium arboreum	20%	Yes	FACU	Prevalence Index is ≤3.0 ¹	
2. Cornus florida	10%	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explai	n)
3.					
4				¹ Indicators of hydric soil and wetland hydrology n	nust
				be present, unless disturbed or problematic.	
5				Definitions of Vegetation Strata:	
6				Definitions of Vegetation Strata.	
7	30%			Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 5 foot radius	0070	= Total Cov	er	approximately 20 ft (6 m) or more in height and 3 (7.6 cm) or larger in diameter at breast height (D	
1 Pteridium aquilinium	10%	Yes	UPL	(7.0 cm) of larger in diameter at breast height (Di	ווט.
···-				Sapling – Woody plants, excluding woody vines	
			-	approximately 20 ft (6 m) or more in height and le than 3 in. (7.6 cm) DBH.	ess
3				dian o iii. (1.0 oiii) BBTI.	
4				Shrub – Woody plants, excluding woody vines,	
5				approximately 3 to 20 ft (1 to 6 m) in height.	
6				Herb – All herbaceous (non-woody) plants, inclu	
7				herbaceous vines, regardless of size. Includes v plants, except woody vines, less than approxima	voody
8				3 ft (1 m) in height.	lery
9					
10				Woody vine – All woody vines, regardless of hei	ght.
11					
12					
5 foot radius	10%	= Total Cov	er		
Woody Vine Stratum (Plot size: 5 foot radius)					
1					
2					
3					
4				Hydrophytic	
5				Vegetation	
		= Total Cov	er	Present? Yes No X	
Remarks: (If observed, list morphological adaptations be	elow)				
, , ,	,				
Hydrophytic vegetation was not observed at th	iis data po	int.			

Sampling Point: Upland N

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of indic	cators.)			
Depth	Matrix			x Features							
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture Remark		arks		
1-3"	10 YR 4/3	100%					sand				
4-16"	10 YR 4/4	100%					sand				
1			and consideration of				21	DI Dana I :-		- N A - A	
Hydric Soil	oncentration, D=De	pletion, RIVI=R	educed Matrix, C	S=Covered	or Coate	a Sana Gr	Indicators for Pro	PL=Pore Li			
l 📥			D Dalamakia Da		(00) (1		_		yuric 30	лιъ .	
Histosol	pipedon (A2)		Polyvalue Be				J)				
Black Hi	. , ,		Loamy Muck				Reduced Verti			RA 15	(0A B)
_	n Sulfide (A4)		Loamy Gleye			. •,	Piedmont Floo	. , .			
	Layers (A5)		Depleted Ma		,		Anomalous Br				-, ,
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		- 6)		(MLRA 153E		`	,	
5 cm Mu	icky Mineral (A7) (L	RR P, T, U)	Depleted Da		. ,		Red Parent Ma	, ,			
	esence (A8) (LRR I		Redox Depre	,	8)		Very Shallow I		. ,) (LRR	T, U)
	ick (A9) (LRR P, T)		Marl (F10) (L				Other (Explain	in Remarks	3)		
	Below Dark Surfac	ce (A11)	Depleted Oc	, ,	•	•	3, 1, ,				
	ark Surface (A12)	MI DA 450A)	Iron-Mangan		. , .		•		-		d
	rairie Redox (A16) (lucky Mineral (S1) (Umbric Surfa Delta Ochric			, U)	wetland hyd	arology mus arbed or pro			
	Bleyed Matrix (S4)	(LKK 0, 3)	Reduced Ve			0Δ 150R)		irbed or pro	Diemanc	<i>.</i> .	
	ledox (S5)		Piedmont Flo								
	Matrix (S6)						A 149A, 153C, 153D)				
	rface (S7) (LRR P,	S, T, U)	_	9	, (, (, , , , , , ,				
	_ayer (if observed)										
Type:											
Depth (in	ches):						Hydric Soil Presen	t? Yes		No	×
Remarks:	<u> </u>										
Hydric soils	were not observ	ved at this d	atapoint.								