

February 28, 2019

Melinda Hogan-Charles U.S. Army Corps of Engineers West Permits Branch Mining Team 10117 Princess Palm Avenue, Suite 120 Tampa, Florida 33610

Via email: Melinda.G.Hogan-Charles@usace.gov

Proj: The Chemours Company FC, LLC

Trail Ridge South Mine

Re: Verification of Delineation of Wetlands and/or Aquatic Resources

Dear Ms. Hogan-Charles,

On behalf of The Chemours Company FC, LLC (Chemours) please find the enclosed application for Verification of Delineation of Wetlands and/or Other Aquatic Resources within the proposed Trail Ridge South Mine (project area) located in Bradford and Clay Counties, Florida (Figure 1). The project area is located south and west of Chemours' operations at the Trail Ridge Dry Mill facility and adjacent to prior mined lands.

The project area consists of parcels owned by the Suwannee River Water Management District (SRWMD) and Armory Board of Florida, as shown in Attachments A and B. Chemours has active lease agreements with both property owners to mine mineral sands within the project area.

Wetlands and surface waters within the project area were delineated by Kleinfelder staff in April 2018 – January 2019. Wetlands within the project area were field delineated pursuant to the current methodologies of the U.S. Army Corps of Engineers (ACOE) 1987 Corps of Engineers Wetland Delineation Manual and the Atlantic and Gulf Coastal Plain Regional Supplement.

Wetland Determination Data Forms completed for delineated wetlands and corresponding adjacent uplands within the project area are provided in Attachment C. For several large, contiguous wetland areas within the project area, a set of wetland and upland data forms were conducted for every 4,000 linear feet. Approximately 30% of the wetland and upland data forms provided under this application were independently reviewed by Certified Professional Soil Scientist Travis Richardson of Richardson Soils & Environmental, LLC.



We trust that the enclosed information is sufficient to meet your needs to verify the delineation of wetlands and surface waters, and we look forward to scheduling review dates with you. Should you have any questions, please do not hesitate to contact me at 904-538-9171 or dlejeune@kleinfelder.com.

Kind Regards,

Daniel LeJeune Project Manager

Enclosed:

- Delineation of Wetlands and/or Other Aquatic Resources Application JD Form
- Figure 1 Location and Vicinity Map
- Figure 2 Aerial Map
- Figure 3 1999 Color Infrared Map
- Figure 4 USGS Topographic Map
- Figure 5 Soils Map
- Figure 6 National Wetland Inventory Map
- Figure 7A 7B 1-Foot-Contour LiDAR Map
- Figures 8 8G Aquatic Resource Maps
- Table 1 Waters Upload Table
- Attachment A Parcel Ownership Map
- Attachment B Property Parcel Cards
- Attachment C Wetland Data Forms and Photographs

CC:

Eve Huggins, ACOE
Connie Henderson, Chemours



U.S. Army Corps of Engineers – Jacksonville District – Regulatory Division REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD)

(For Jurisdictional Status and Identifying Wetlands and Other Aquatic Resources)

I. PROPERTY AND AGENT INFORMATION

A. Site Details/Location:	-
Site Name: Trail Ridge South	Date: 2/28/2019
Property Owner: Suwannee River Water Management District Property Owner Address: See Attachments A and B	and Armory Board of Florida
Phone:	Email:
Property Address (es): Starke, Florida 32091	
Acreage: <u>2,218.6</u> City/Parish/Section/	Township/Range: Starke, FL; 6, 7, 12, 13, 18, 19, 24 / 7S / 22E, 23E
County: Bradford and Clay Counties Parcel n	number(s): See Attachments A and B Longitude (decimal degrees): -82.04904°
_atitude (decimal degrees): 29.88981	Longitude (decimal degrees): -82.04904*
3. Requestor of Jurisdictional Determin	nation: (if there are multiple property owners please attach additional page
Name: Nicole Newell	
Company Name (if applicable): The Chemours Com	pany FC, LLC.
Address: PO Box 753 Starke, Florida 32091 Phone: 904-964-1200	Email:
Check one: I currently own this proper	
I plan to purchase this pro	perty
Other, please explain Chemou	urs has active lease agreements for land owned by Suwannee River Water Management District and Armory Board of Florida.
Agent/Environmental Consultant Ac	ting on Boholf of the Boquestor (if applicable)
Consultant/Agent Name: Daniel LeJeune	ting on Behalf of the Requestor (if applicable): Company Name: Kleinfelder, Inc.
Address: 8933 Western Way, Suite 12	Oompany Name.
Phone: 904-538-9171	Email: dlejeune@kleinfelder.com
all aquatic resources.	t or perform activities on this site which would be designed to avoid
I intend to construct/develop a project all jurisdictional aquatic resources ur	t or perform activities on this site which would be designed to avoid
	t or perform activities on this site which may require authorization
	al Determination would be used to avoid and minimize impacts to
·	as an initial step in a future permitting process.
	t or perform activities on this site which may require authorization
	mpanied by my permit application and the jurisdictional
determination is to be used in the pe	
	t or perform activities in a navigable water of the U.S., which is subject to
the ebb and flow of the tide.	t of porterni asartitos in a navigablo water of the c.e., which is subject to
	a required in order to obtain my level/state outborization
= ' '	s required in order to obtain my local/state authorization.
	particular aquatic resource and the request the Corps to confirm that
jurisdiction does/does not exist over	
I believe that the site may be compris	ed entirely of dry land.
Other:	

III. TYPE OF REQUEST: (check all that apply)
Approved¹ Jurisdictional Determination (AJD) Only
Preliminary ² Jurisdictional Determination (PJD) Only
Approved Jurisdictional Determination (AJD) with submittal of Pre-Construction Notification or Department
of the Army permit application
Preliminary Jurisdictional Determination (PJD) with submittal of Pre-Construction Notification or Department
of the Army permit application
Verify Delineation of Wetlands and/or Other Aquatic Resources Only Conducted by Agent/Environmental
Consultant with submittal of Pre-Construction Notification or Department of the Army permit application (No
jurisdictional determination requested).
✓ Verify Delineation of Wetlands and/or Other Aquatic Resources Only Conducted by Agent/Environmental
Consultant (No jurisdictional determination requested).
I request that the Corps delineate the wetlands and/or other aquatic resources that may be present on
the property with the attached Pre-Construction Notification or Department of the Army Permit Application. ³
I request that the Corps delineate the wetlands and/or other aquatic resources that may be present on
my property with an AJD or PJD. ³
No Permit Required (NPR) Letter as I believe my proposed activity is not regulated.4
Unclear as to which jurisdictional determination I would like and require additional information to inform
my decision.

<u>1Approved</u> – An AJD is defined in Corps regulations at 33 CFR 331.2. As explained in further detail in RGL 16-01, an AJD is used to indicate that this office has identified the presence or absence of wetlands and/or other aquatic resources on a site, including their accurate location(s) and boundaries, as well as their jurisdictional status. AJDs are valid for 5 years.

<u>Preliminary</u> – A PJD is defined in Corps regulations at 33 CFR 331.2. As explained in further detail in RGL 16-01, a PJD is used to indicate that this office has identified the approximate location(s) and boundaries of wetlands and/or other aquatic resources on a site that are presumed to be subject to regulatory jurisdiction of the Corps of Engineers. Unlike an AJD, a PJD does not represent a definitive, official determination that there are, or that there are not, jurisdictional aquatic resources on a site, and does not have an expiration date.

³Corps Delineations-Current workload and staffing limitations may substantially delay the Corps ability to perform a wetland delineation. The availability of the Corps to perform this service will be evaluated on a case by case basis. In general, the Corps will only perform an on-site delineation for non-commercial entities on parcels which total 5 acres or less. To ensure the accuracy of the supporting information and expedite review and processing, aquatic resource delineations should be completed by experienced/knowledgeable professionals in accordance with Corps established procedures and then submitted to the Corps for verification.

4No Permit Required" (NPR) Letter- A NPR letter may be provided by the Corps to notify the requestor that an activity will not require a permit (authorization) from the Corps; this letter can only be used if the proposed activity is not a regulated activity, regardless of where the activity may occur. A NPR letter cannot be used to indicate the presence or absence of wetlands and/or other aquatic resources, nor can it be used to determine their jurisdictional status.

*Please note that delineated boundaries of aquatic resources need to be flagged on-site in order for the Corps to field verify the delineation. This applies to all delineations conducted by an Agent/Environmental Consultant for all types of projects, permit applications, and JD requests. Additionally, the boundaries of the parcel should be clearly marked by staking, fences, cut lines, or other landmarks, and the interior of the property should be readily accessible. Transect cut lines may be required for access and physical reference in densely vegetated areas.

IV. LEGAL RIGHT OF ENTRY

By signing below, I am indicating that I have the authority, or am acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant U.S. Army Corps of Engineers personnel right of entry to legally access the property(ies) subject to this request for the purposes of conducting on-site investigations (e.g., digging and refilling shallow holes) and issuing a jurisdictional determination. I acknowledge that my signature is an affirmation that I possess the requisite property rights to request a jurisdictional determination on the properties subject to this request.

8933 Western Way, Suite 12 Jacksonville, FL 32256	See Attachments A and B
Mailing Address	Property Address/Parcel number(s)
dlejeune@kleinfelder.com	904-538-9171
Email Address	Daytime Phone Number
dlejeune@kleinfelder.com 2019.02.28 12:10:03 -05'00'	Daniel LeJeune
*Signature	Printed Name and Date

Jacksonville Permits Section P.O. Box 4970 Jacksonville, FL 32232-0019 Corpsjaxreg-nj@usace.army.mil	Cocoa Permits Section 400 High Point Drive, Suite 600 Cocoa, FL 32926-6662 Corpsjaxreg-nc@usace.army.mil	Pensacola Permits Section 41 North Jefferson Street, Suite 301 Pensacola, FL 32502-5664 Corpsjaxreg-NL@usace.army.mil
Panama City Permits Section 1002 West 23 rd Street, Suite 350 Panama City, FL 32405-3648 Corpsjaxreg-NP@usace.army.mil Palm Beach Gardens Permits Section 4400 PGA Boulevard, Suite 500 Palm Beach Gardens, FL 33410- 6557	Tampa Permits Section 10117 Princess Palm Avenue, Suite 120 Tampa, FL 33610-8302 tampareg@usace.army.mil Miami Permits Section 9900 SW 107 th Avenue, Suite 203 Miami, FL 33176-2785	Fort Myers Permits Section 1520 Royal Palm Square Blvd, Suite 310 Fort Myers, FL 33919-1036 <u>SF.New.Applications@usace.army.mil</u> Antilles Permits Section Annex Building Fundacion Angel Ramos 383 F.D. Roosevelt Ave., Suite 202
Application-sp@usace.army.mil	SEAPPLS@usace.army.mil	San Juan, Puerto Rico 00918

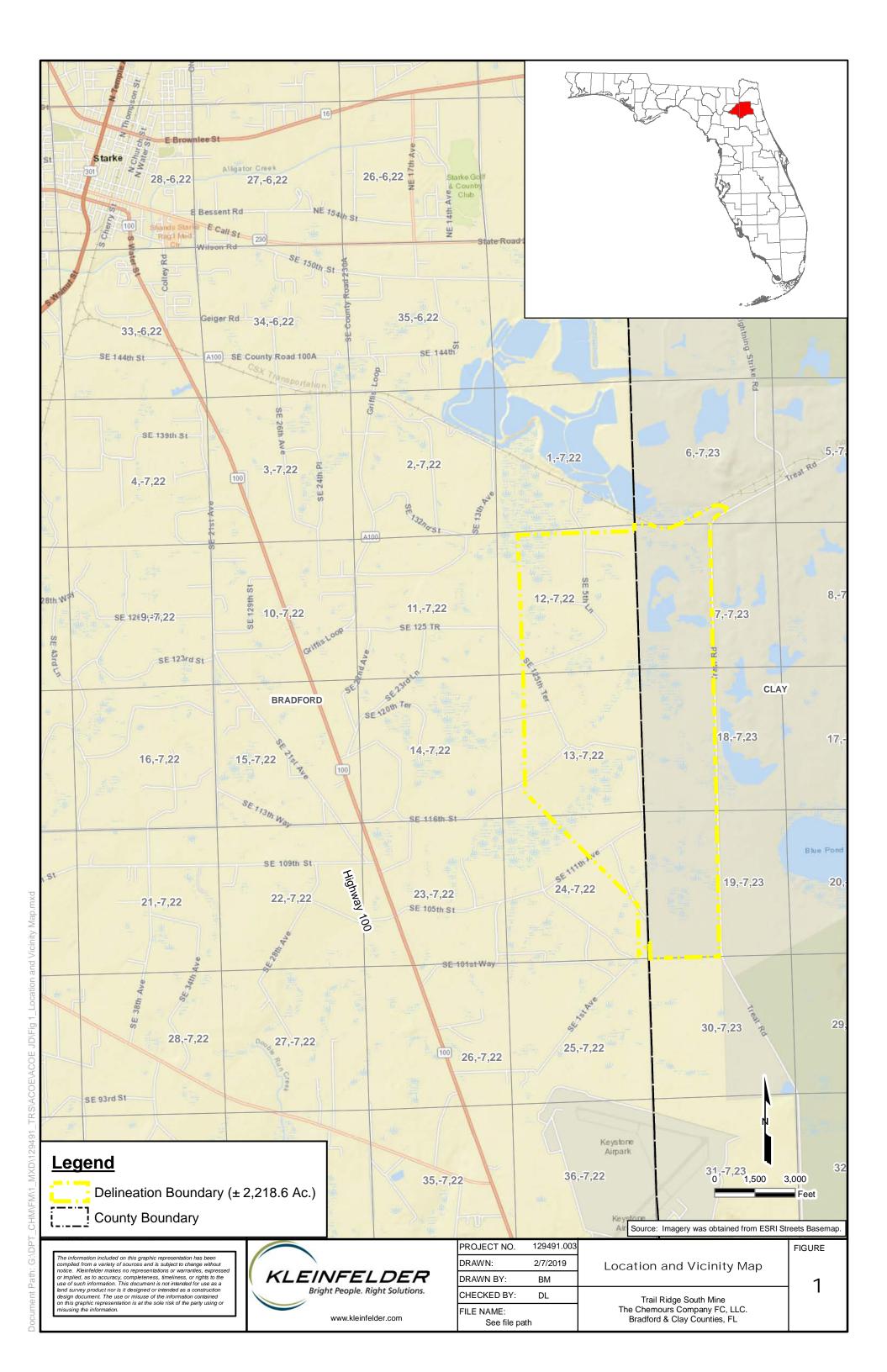
Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

^{*}Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

Principal Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

FIGURES



The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, expresset or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.

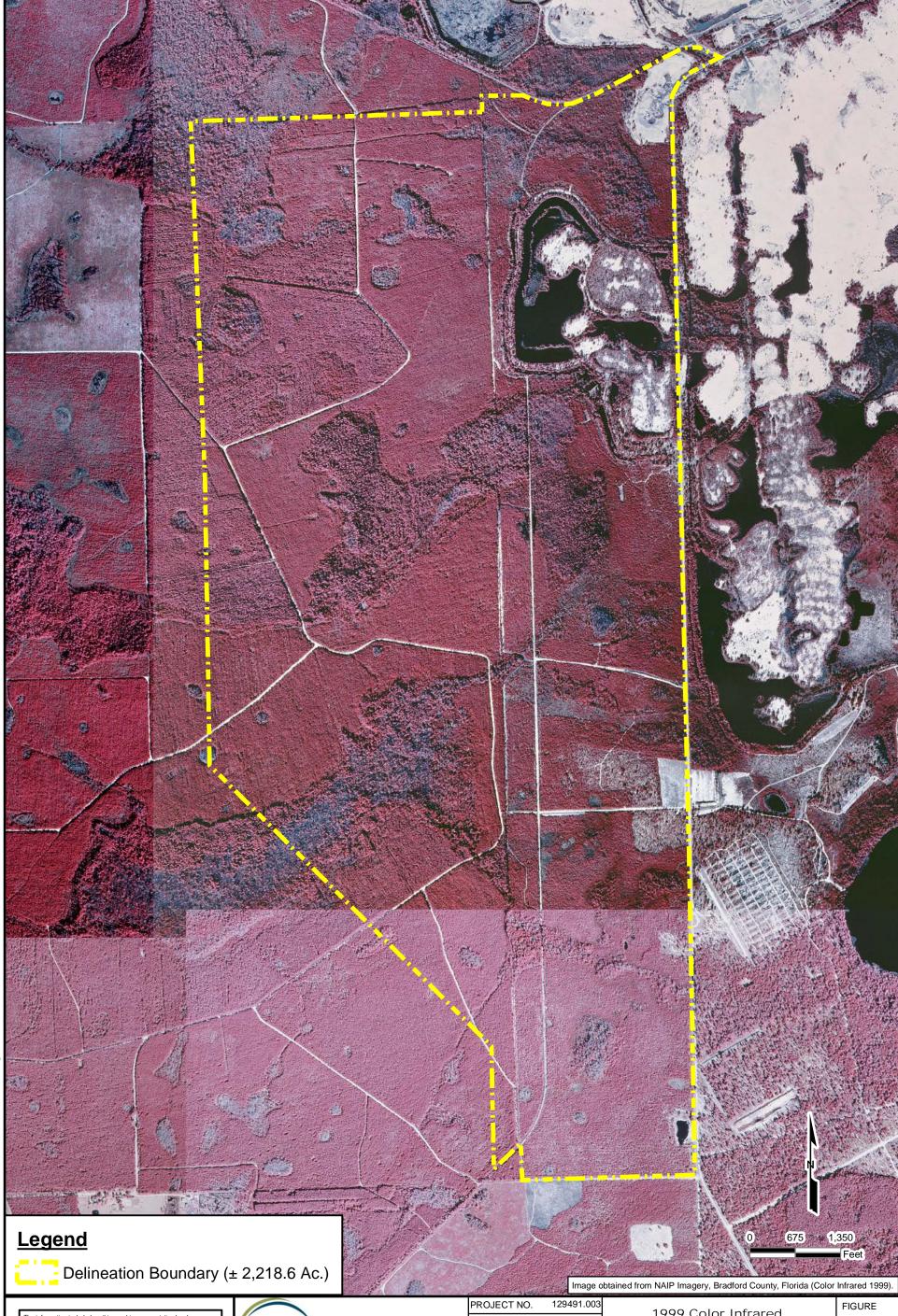
KLEINFELDER
Bright People. Right Solutions.

www.kleinfelder.com

PROJECT NO.	129491.003	
DRAWN:	2/7/2019	
DRAWN BY:	ВМ	
CHECKED BY:	DL	
FILE NAME:		
See file path		

Aerial Map Trail Ridge South
The Chemours Company FC, LLC.
Bradford & Clay Counties, FL

2



The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representations or warranties, expressed or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The use or misuse of the information contained on this graphic representation is at the sole risk of the party using or misusing the information.

KLEINFELDER
Bright People. Right Solutions.

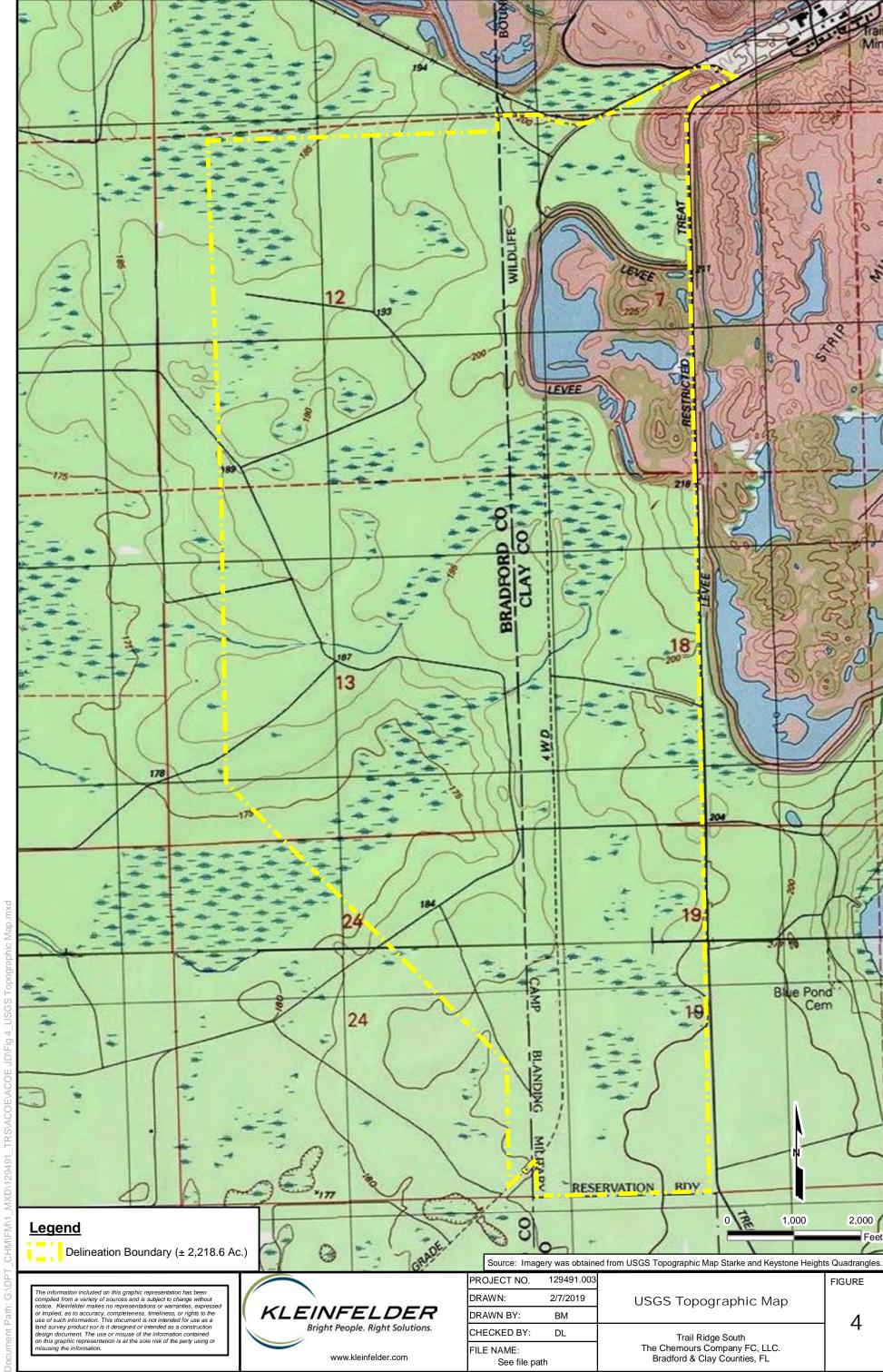
www.kleinfelder.com

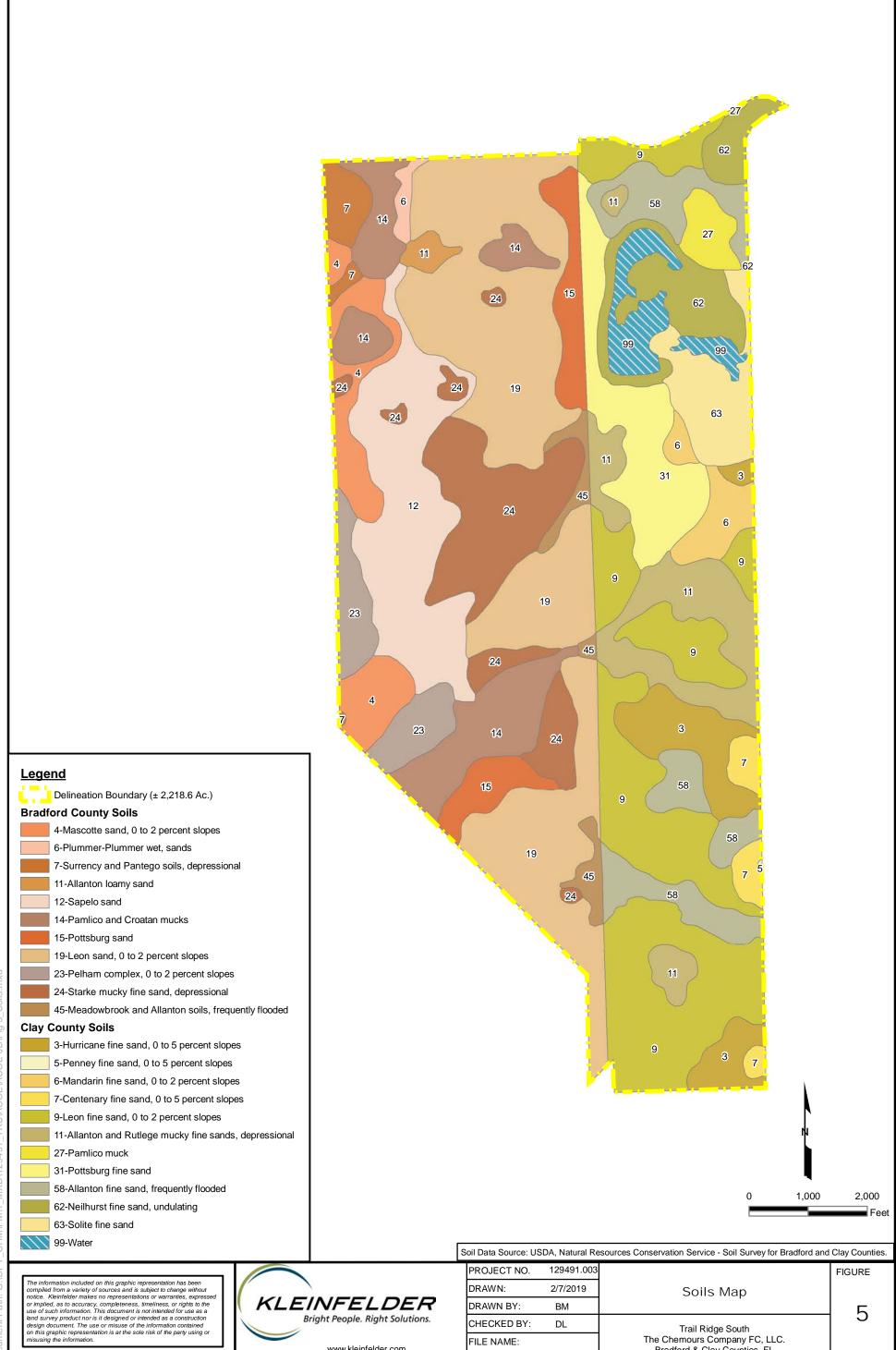
PROJECT NO.	129491.003	
DRAWN:	2/7/2019	
DRAWN BY:	ВМ	
CHECKED BY:	DL	
FILE NAME: See file path		

1999 Color Infrared Aerial Map

Trail Ridge South
The Chemours Company FC, LLC.
Bradford & Clay Counties, FL

3





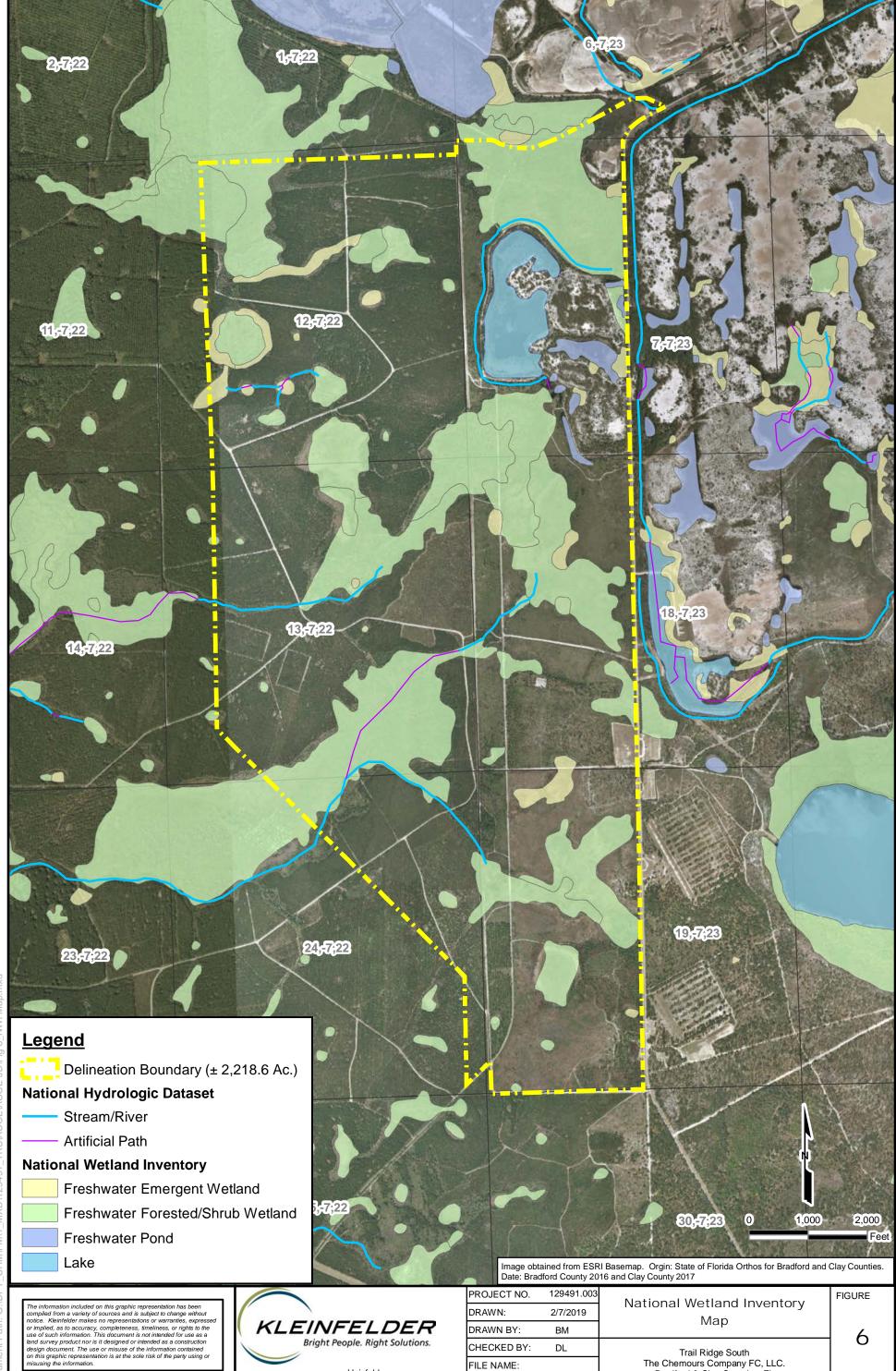
FILE NAME:

See file path

www.kleinfelder.com

Trail Ridge South
The Chemours Company FC, LLC.
Bradford & Clay Counties, FL

ocument Path: G:\DPT_CHM\FM\1_MXD\129491_TRS\ACOE\ACOE JD\Fig 5_



Bright People. Right Solutions.

www.kleinfelder.com

CHECKED BY:

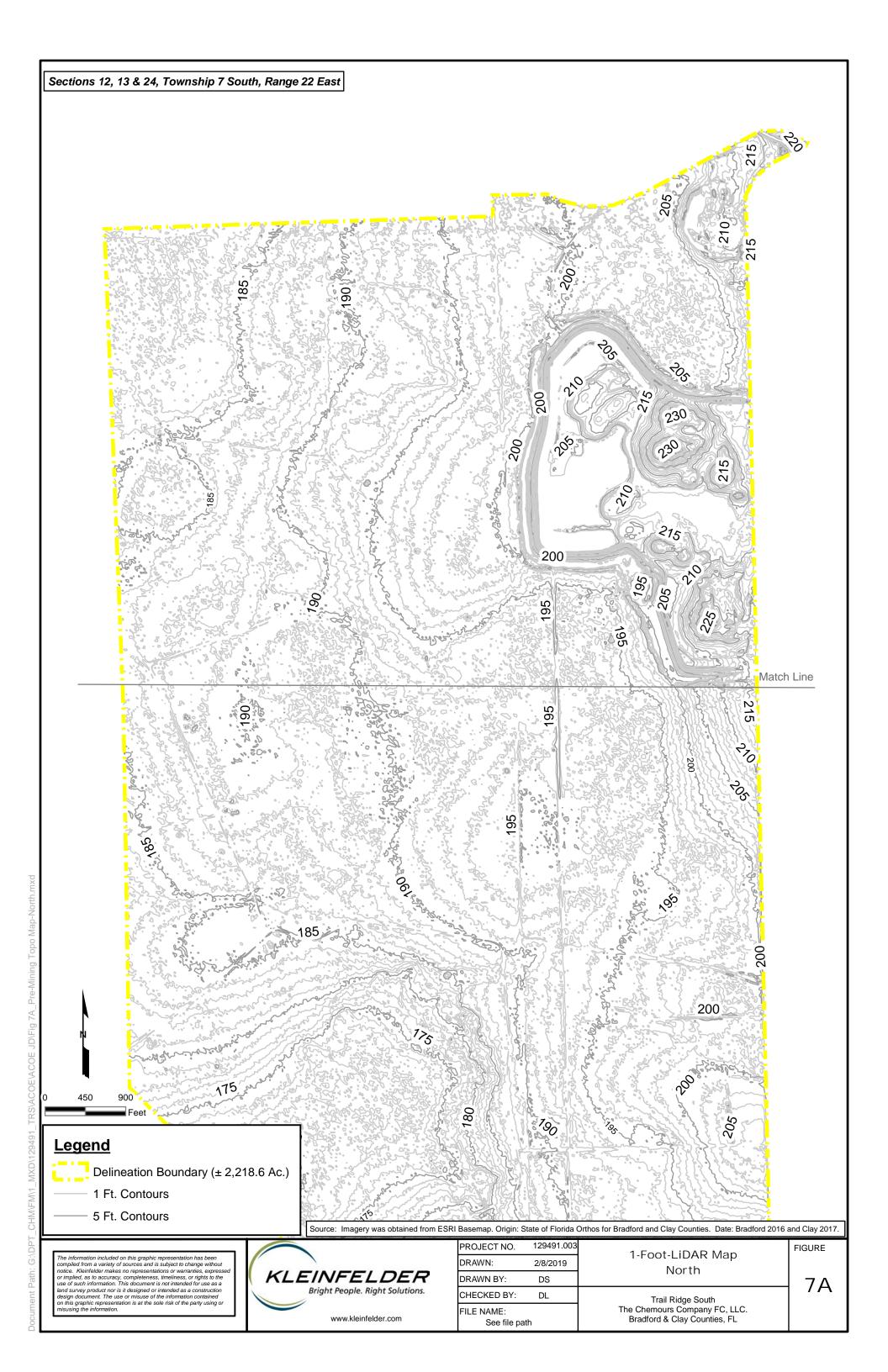
See file path

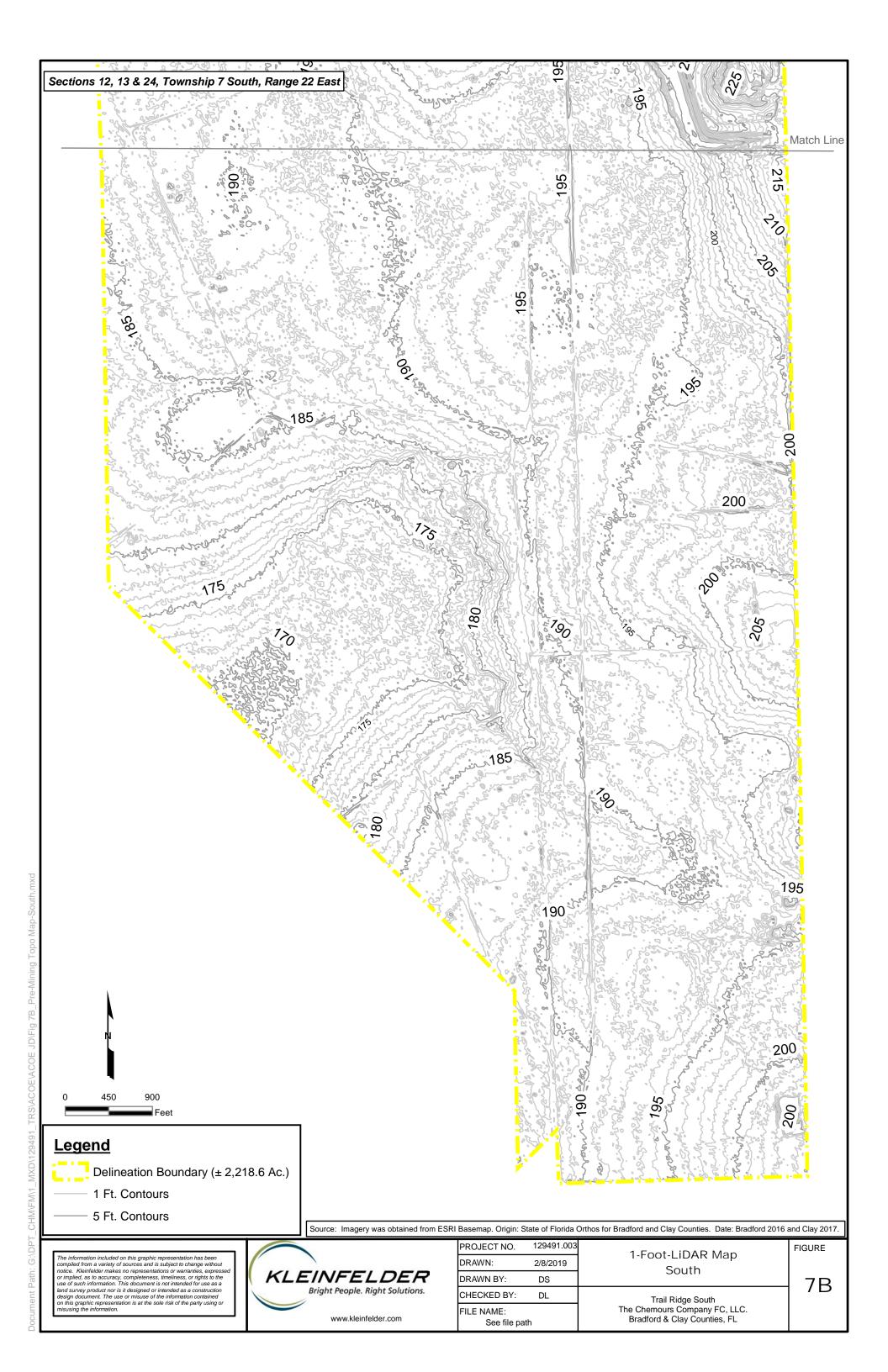
FILE NAME:

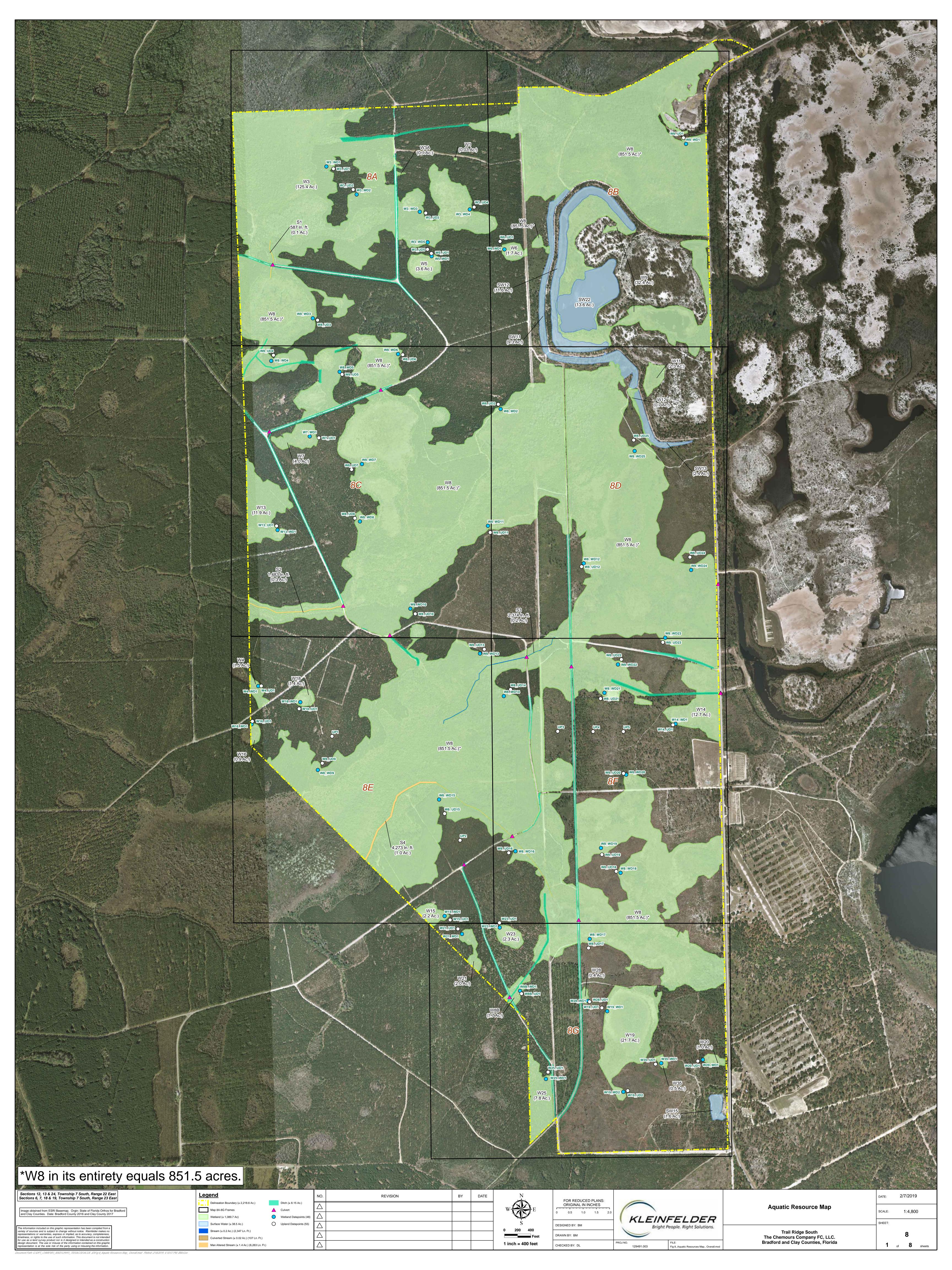
DL

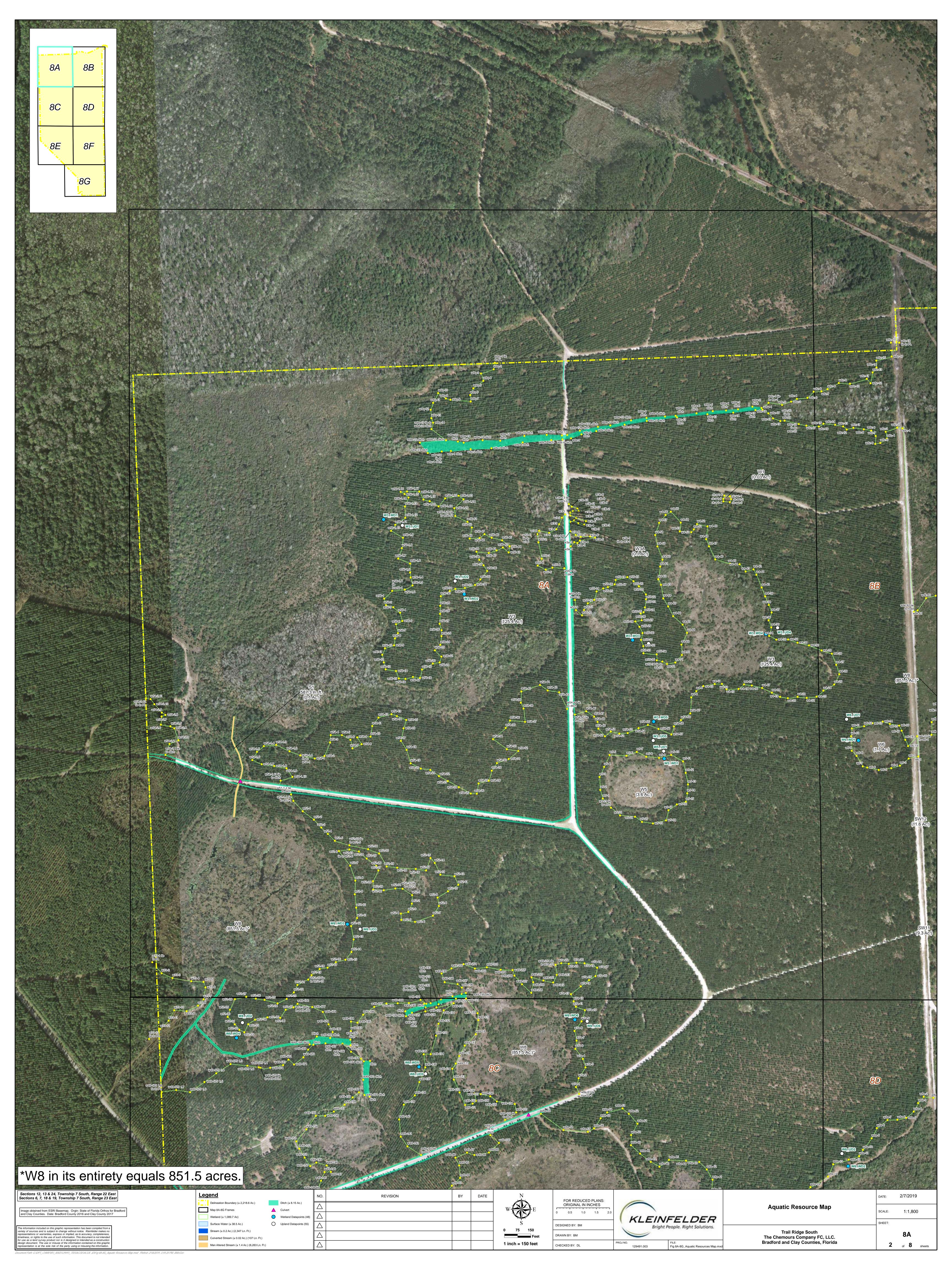
6

Trail Ridge South
The Chemours Company FC, LLC.
Bradford & Clay Counties, FL

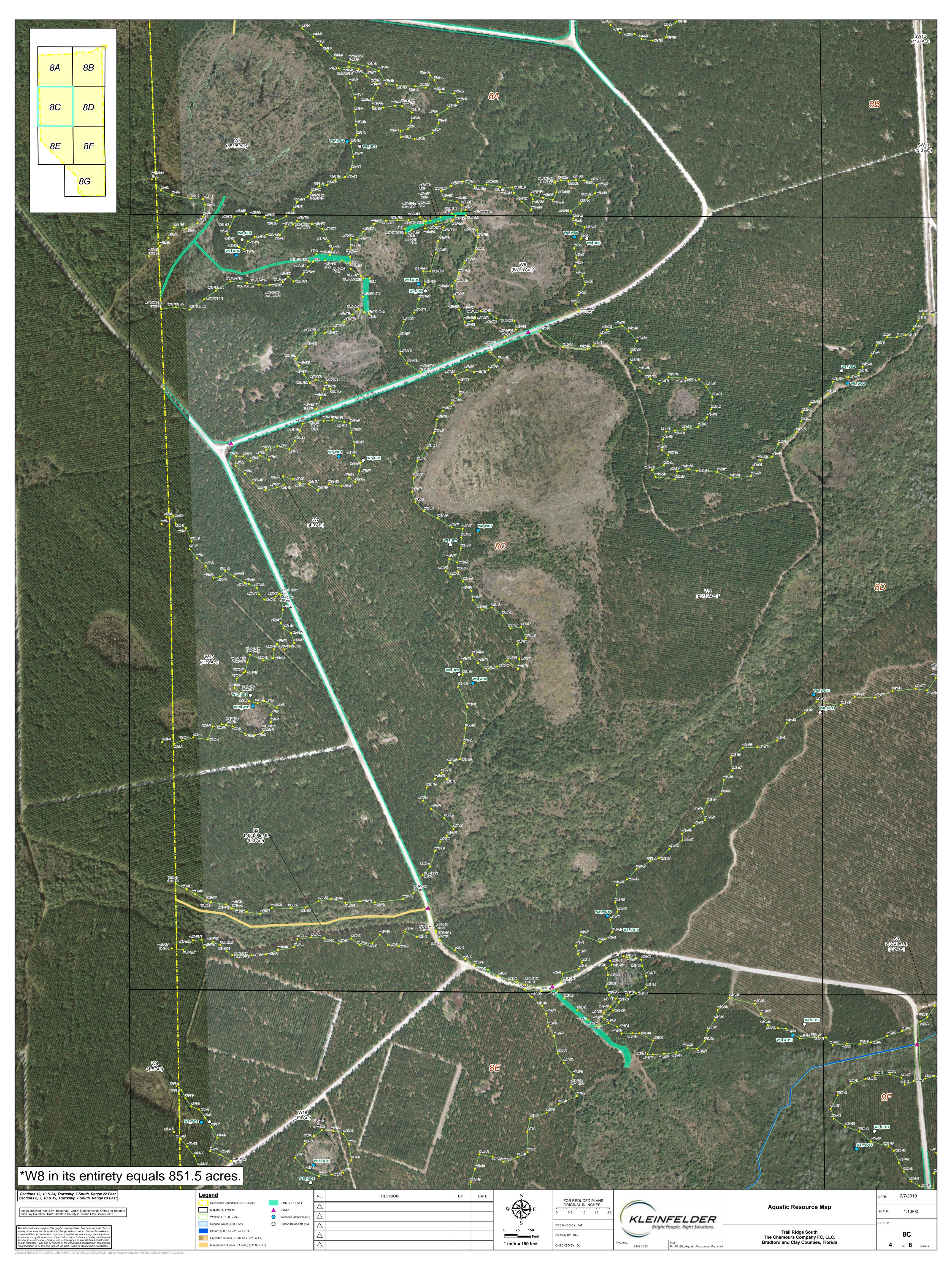


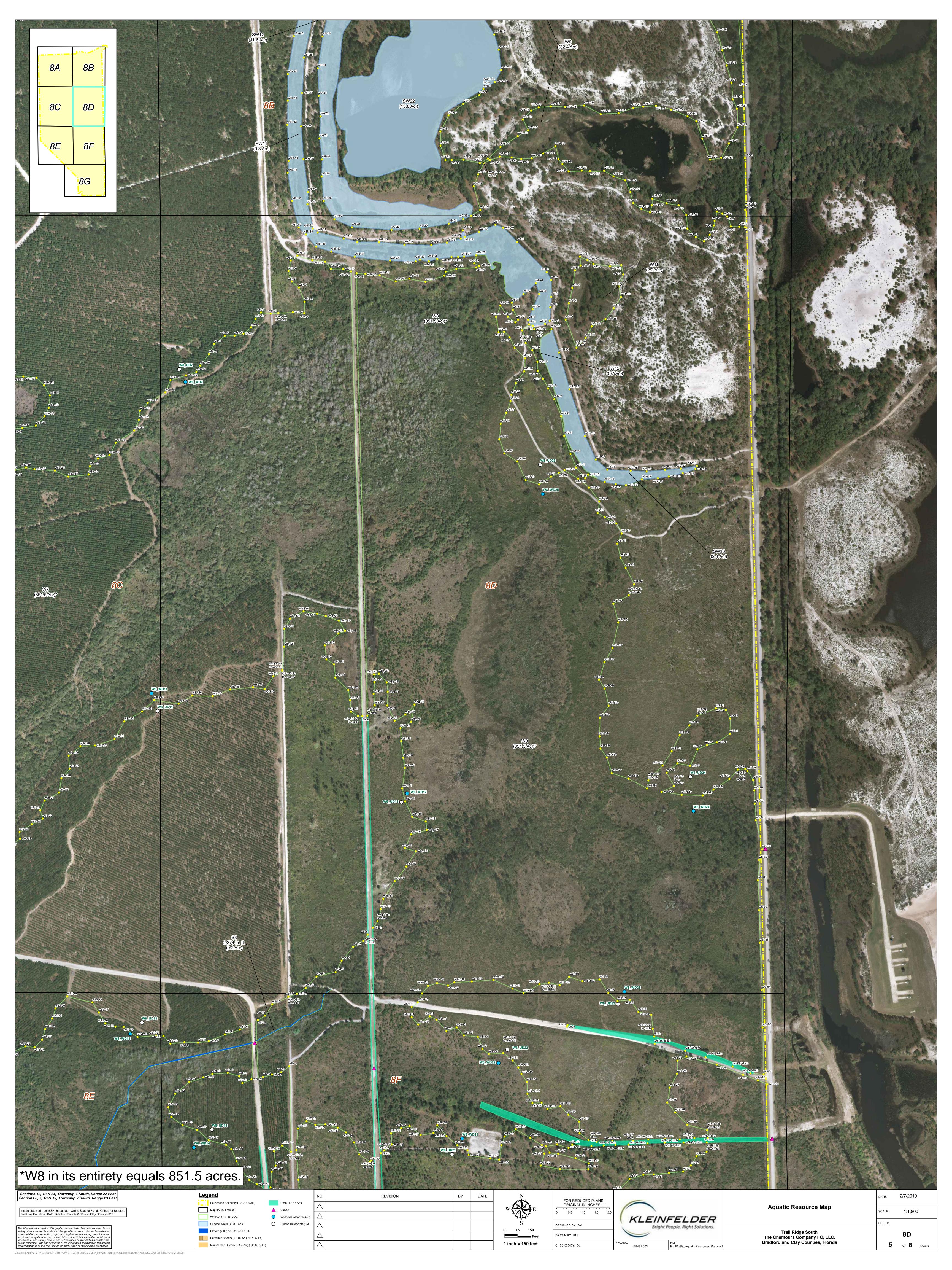


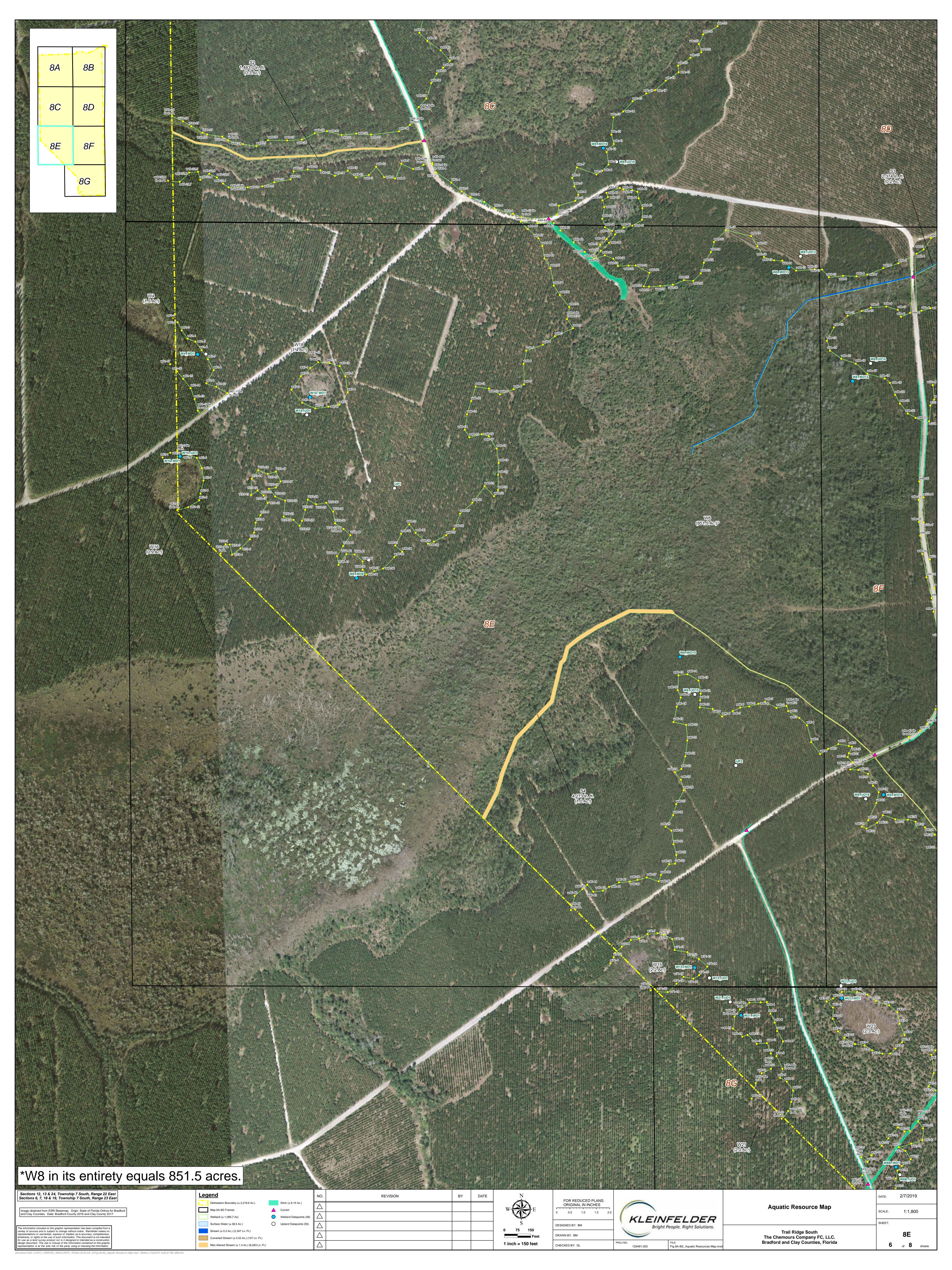


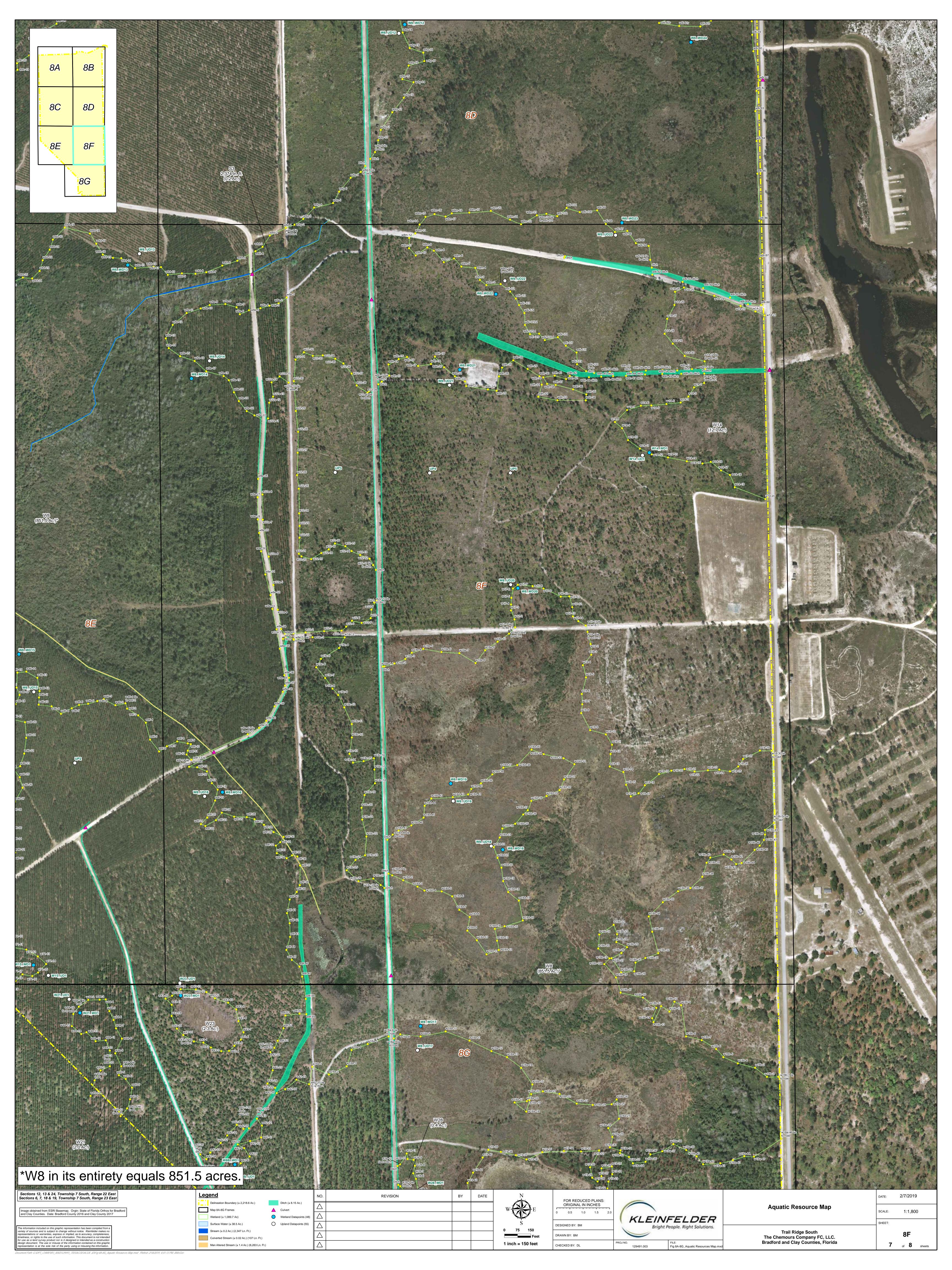


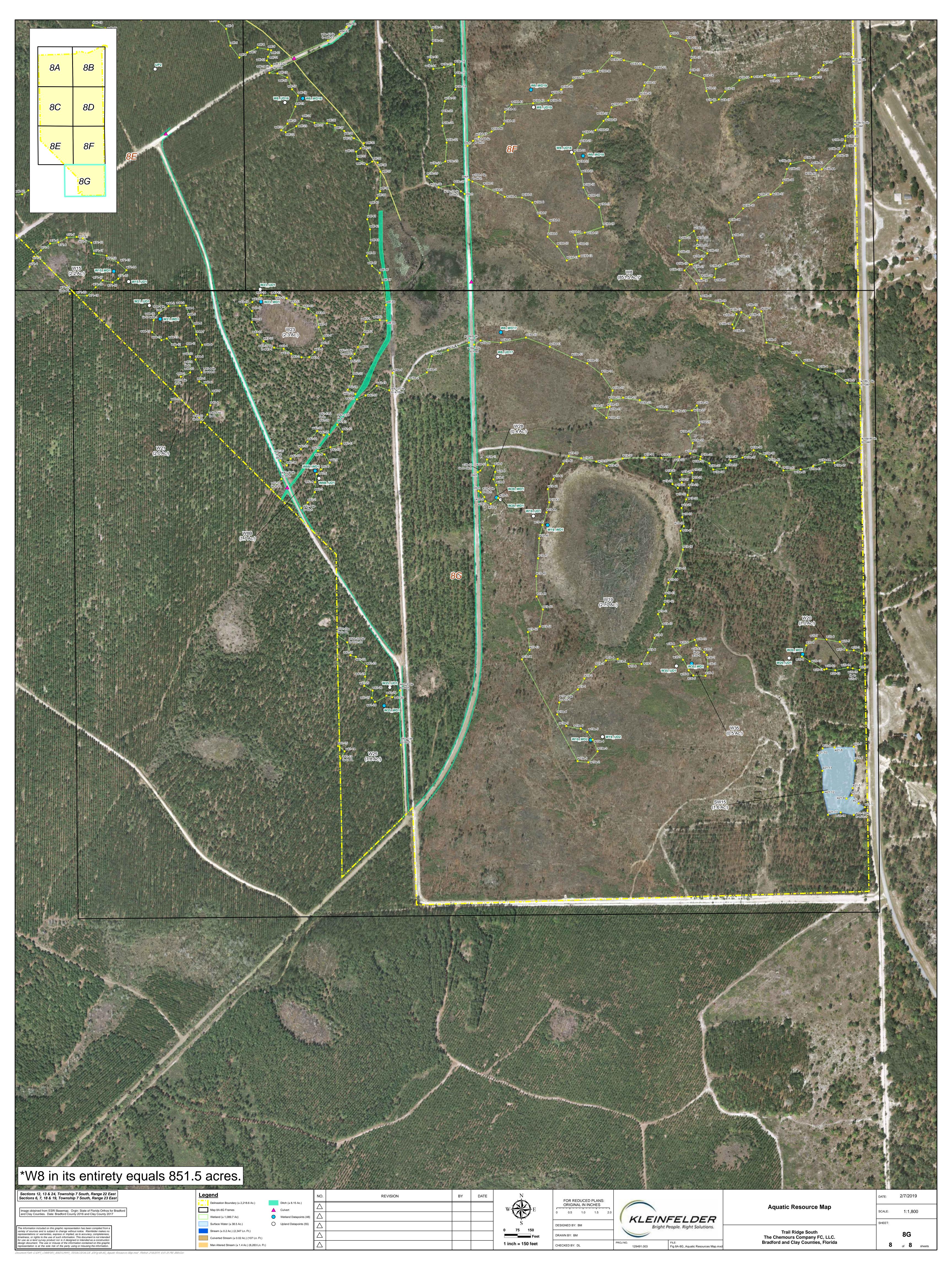












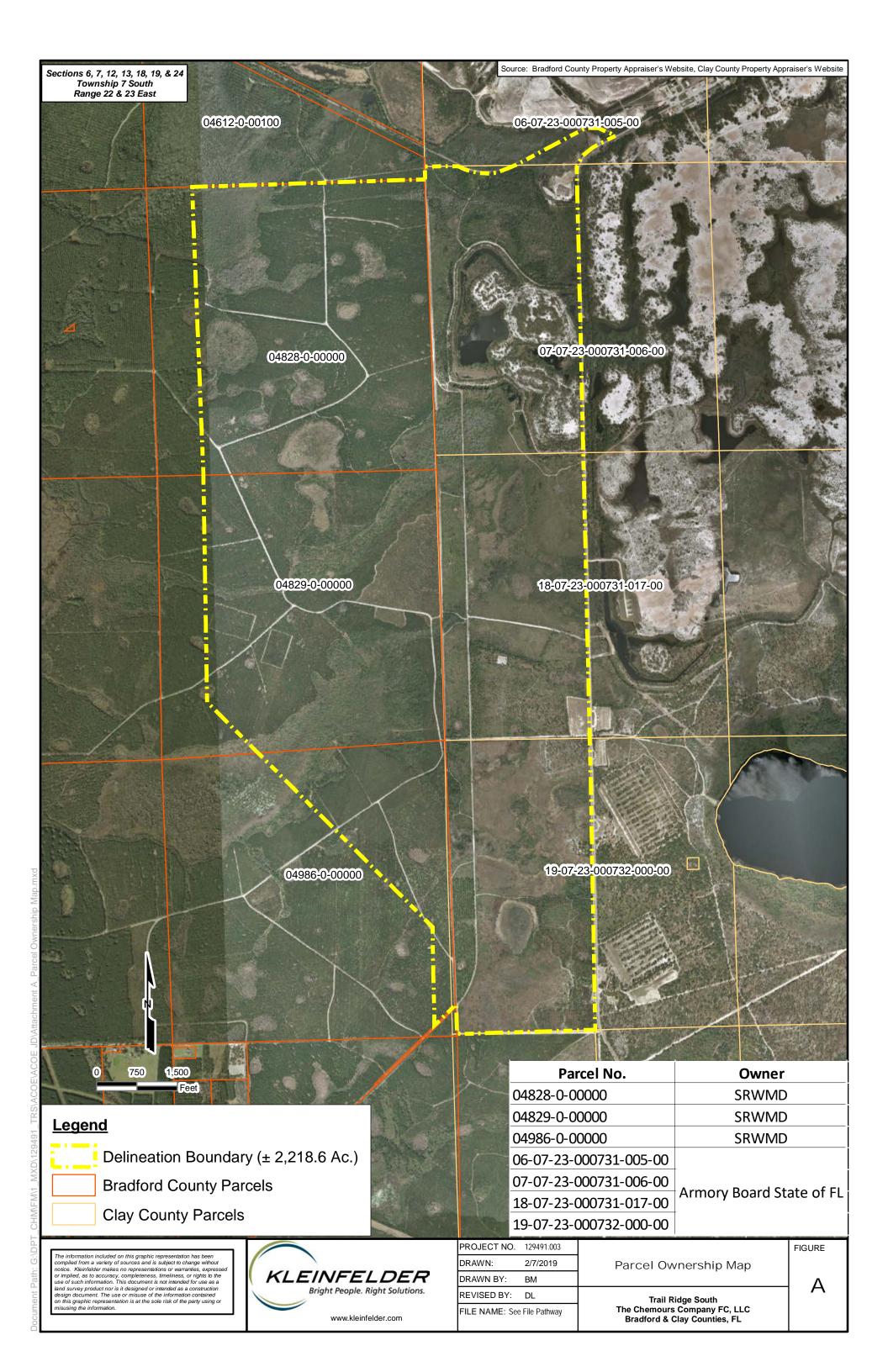
TABLES

Trail Ridge South Delineation of Wetland And/or Other Aquatic Resources

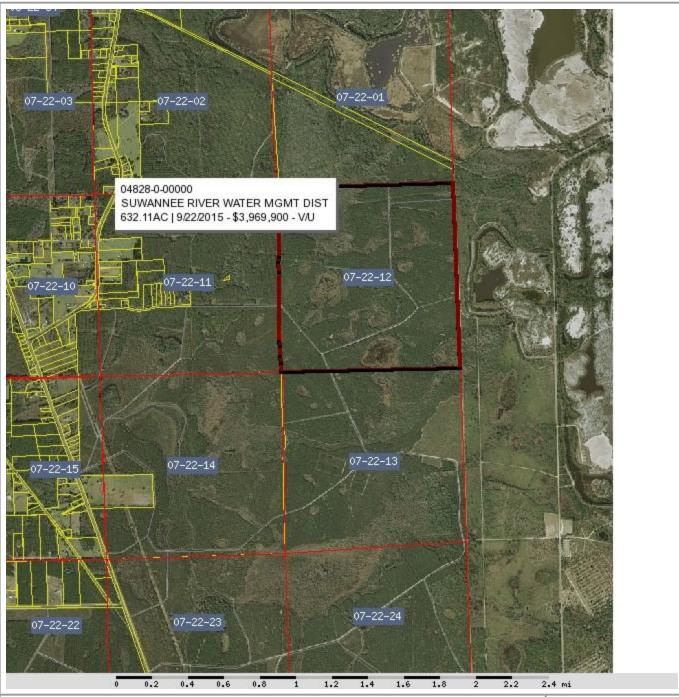
Wetland	Cowardin Code	Acres	Linear Ft.	HGM Code	Abuts TNW (Y/N)	Water Types	Class of Aquatic Resources
W1	PFO	0.03	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W3	PFO	125.4	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W3A	PFO	0.1	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W4	PFO	1.5	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W5	PFO	3.6	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W6	PFO	1.7	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W7	PFO	4.0	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W8	PFO	851.5	-	DEPRESS	N	RPWWN	non-section 10 - wetland
W8B	PFO	1.7	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W9	PFO	32.4	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W11	PFO	2.3	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W12	PFO	0.7	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W13	PFO	11.9	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W14	PFO	12.7	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W15	PFO	2.2	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W16	PFO	0.9	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W18	PFO	1.4	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W19	PFO	21.7	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W20	PFO	1	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W21	PFO	2	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W23	PFO	2.3	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W25	PFO	7.8	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W28	PFO	0.4	-	DEPRESS	N	NRPWW	non-section 10 - wetland
W35	PFO	0.5	-	DEPRESS	N	NRPWW	non-section 10 - wetland
SW11	L10W	9.3	-	DEPRESS	N	RPW	non-section 10 - nonwetland
SW12	L10W	11.6	-	DEPRESS	N	RPW	non-section 10 - nonwetland
SW13	L10W	2.4	-	DEPRESS	N	RPW	non-section 10 - nonwetland
SW15	L10W	1.6	-	DEPRESS	N	RPW	non-section 10 - nonwetland
SW22	L10W	13.6	-	DEPRESS	N	RPW	non-section 10 - nonwetland
S1	R5	0.1	587	RIVERINE	N	RPW	non-section 10 - nonwetland
S2	R5	0.3	1,483.0	RIVERINE	N	RPW	non-section 10 - nonwetland
S3	R5	0.2	2,374.0	RIVERINE	N	RPW	non-section 10 - nonwetland
S4	R5	1	4,273.0	RIVERINE	N	RPW	non-section 10 - nonwetland

ATTACHMENTS

ATTACHMENT A: PARCEL OWNERSHIP MAP



ATTACHMENT B: PROPERTY PARCEL CARDS

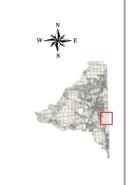


Bradford County Property Appraiser Kenny Clark, CFA - Starke, Florida - 904-966-6216

PARCEL: 04828-0-00000 05 - WATER MANA (008000)

12 7S 22 12 7S 22 THAT PORT OF THE FOLLOWING THAT PORT OF THE FOLLOWING LYING WITHIN THIS SEC: COM NE LYING WITHIN THIS SEC: COM NE COR OF SEC 12 7 22

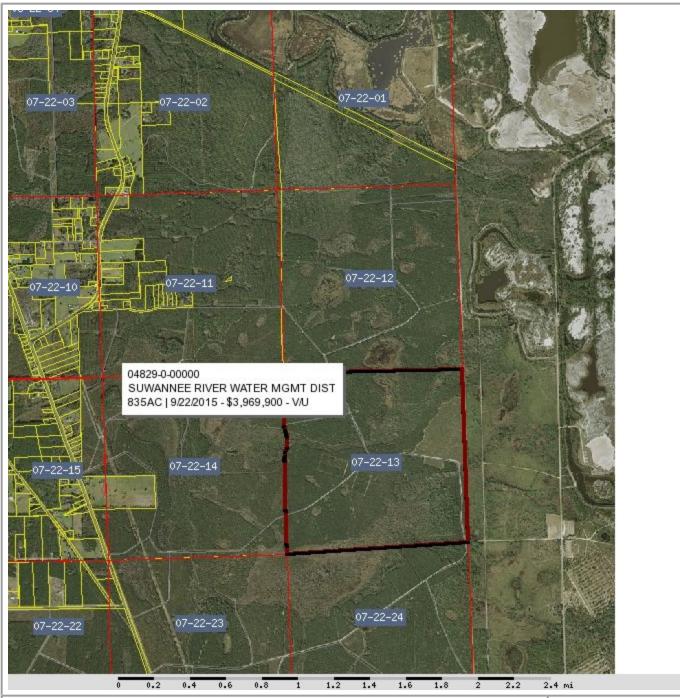
Name:	SUWANNEE RIVER WATER	R MGMT DIST	2019 V	Vorking Values
Site:	,		Land	\$693,288.00
Mail:	9225 CR 49		Bldg	\$0.00
IVIAII.	LIVE OAK, FL 32060		Assd	\$693,288.00
Sales	9/22/2015\$3,969,900.00	V/U	Exmpt	\$91,935.00
Info	3/17/2014 \$0.00	V/U	Taxbl	County: \$0.00
			Taxbi	Other: \$0.00 School: \$0.00



NOTES:

This information,updated: 2/1/2019, was derived from data which was compiled by the Bradford County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

powered by: GrizzlyLogic.com



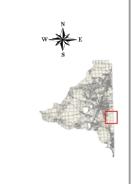
Bradford County Property Appraiser

Kenny Clark, CFA - Starke, Florida - 904-966-6216

PARCEL: 04829-0-00000 05 - WATER MANA (008000)

13 7S 22 13 7S 22 THAT PORT OF THE FOLLOWING THAT PORT OF THE FOLLOWING LYING WITHIN THIS SEC: COM NE COR OF SEC 12 7 22

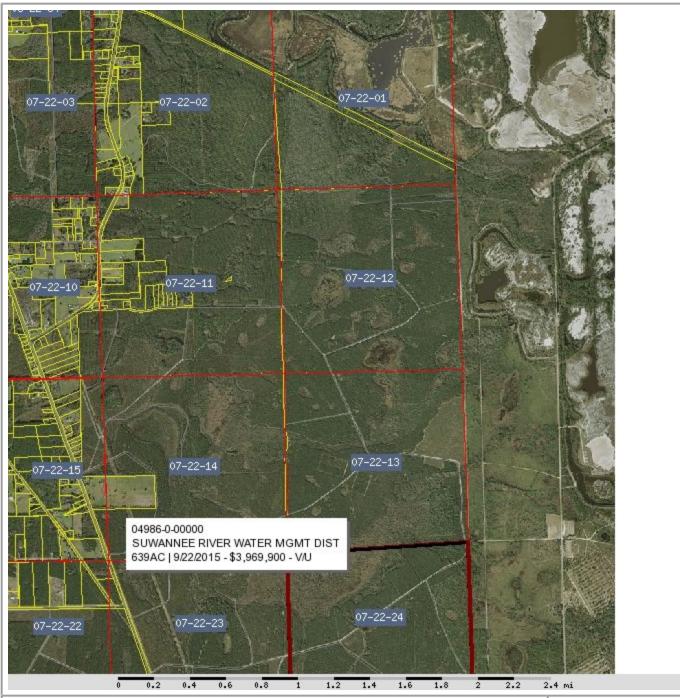
Name	SUWANNEE RIVER WATER MGMT DIS	2019 V	Vorking Values
Site:	,	Land	\$920,000.00
Mail:	9225 CR 49	Bldg	\$0.00
iviali.	LIVE OAK, FL 32060	Assd	\$920,000.00
Sales	9/22/2015\$3,969,900.00 V / U	Exmpt	\$920,000.00
Info	3/17/2014 \$0.00 V / U	Toylol	County: \$0.00
		Taxbl	Other: \$0.00 School: \$0.00



NOTES:

This information,updated: 2/1/2019, was derived from data which was compiled by the Bradford County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

powered by: GrizzlyLogic.com



Bradford County Property Appraiser Kenny Clark, CFA - Starke, Florida - 904-966-6216

PARCEL: 04986-0-00000 05 - WATER MANA (008000)

24 7S 22 24 7S 22 THAT PORT OF THE FOLLOWING THAT PORT OF THE FOLLOWING LYING WITHIN
THIS SEC: COM NE LYING WITHIN THIS SEC: COM NE COR OF SEC 12 7 22

Name	SUWANNEE RIVER WATER MGMT D	ST 2019 \	Working Values
Site:	,	Land	\$713,200.00
Mail:	9225 CR 49	Bldg	\$0.00
iviali.	LIVE OAK, FL 32060	Assd	\$713,200.00
Sales	9/22/2015\$3,969,900.00 V / U	Exmpt	\$713,200.00
Info	3/17/2014 \$0.00 V / U	Toybl	County: \$0.00
		Taxbl	Other: \$0.00 School: \$0.00





This information,updated: 2/1/2019, was derived from data which was compiled by the Bradford County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

powered by: GrizzlyLogic.com





Parcel ID	06-07-23-000731-
	005-00
Acres	637
Property	STATE - VA
Class	
Taxing	1
District	

Physical Address Mailing Address

8700 STATE ROAD 230 STARKE ARMORY BOARD STATE OF FL C/O DEPT OF MIL AFFAIRS/STATE CAMP BLANDING LANDS 82 MARINE ST SAINT AUGUSTINE, FL 320845039

Land Value Ag Land	\$1,274,000 \$0			Reason	Qual
Value		n/a	0	n/a	n/a
Building	\$0	n/a	0	n/a	n/a
Value					
Misc Value	\$ 0				
Just Value	\$1,274,000				
Assessed	\$1,271,770				
Value					
Exempt	\$1,271,770				
Value					
Taxable	\$ 0				
Value					







Parcel ID 07-07-23-000731-006-00 Acres 638 Property STATE - VA Class Taxing 1

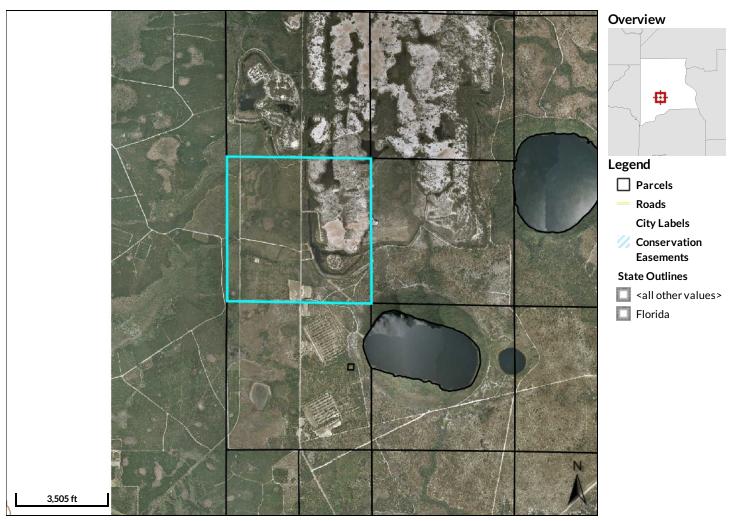
District

Physical Address Mailing Address 8700 COUNTY ROAD 230 KEYSTONE HEIGHTS ARMORY BOARD STATE OF FL C/O DEPT OF MIL AFFAIRS/STATE CAMP BLANDING LANDS 82 MARINE ST SAINT AUGUSTINE, FL 320845039

Land Value Ag Land	\$1,276,000 \$0	Last 2 Sales Date Price Reason Qua			
Value		n/a	0	n/a	n/a
Building	\$0	n/a	0	n/a	n/a
Value					
Misc Value	\$ 0				
Just Value	\$1,276,000				
Assessed	\$1,273,770				
Value					
Exempt	\$1,273,770				
Value					
Taxable	\$ 0				
Value					







Parcel ID 18-07-23-000731-017-00

Acres 638

Property STATE - VA

Class

Taxing 1

District

Physical Address Mailing Address

8700 STATE ROAD 21 KEYSTONE HEIGHTS ARMORY BOARD STATE OF FL C/O DEPT OF MIL AFFAIRS/STATE CAMP BLANDING LANDS 82 MARINE ST SAINT AUGUSTINE, FL 320845039

\$1,276,000 Last 2 Sales Land Value Ag Land Date Price Reason Qual Value n/a n/a n/a Building \$0 n/a n/a n/a Value Misc Value \$0 **Just Value** \$1,276,000 Assessed \$1,273,770 Value Exempt \$1,273,770 Value Taxable \$0 Value







Parcel ID 19-07-23-000732000-00

Acres 638

Property STATE - VA

Class

Taxing 1

District

Physical Address Mailing Address

TREAT RD
KEYSTONE HEIGHTS
ARMORY BOARD STATE OF FL
C/O DEPT OF MIL AFFAIRS/STATE
CAMP BLANDING LANDS 82
MARINE ST
SAINT AUGUSTINE, FL 320845039

\$1,276,000 Last 2 Sales Land Value Ag Land \$0 Date Price Reason Qual Value n/a n/a n/a **Building** \$0 n/a n/a n/a Value Misc Value \$0 **Just Value** \$1,276,000 Assessed \$1,273,770 Value Exempt \$1,273,770 Value Taxable \$0 Value



ATTACHMENT C: WETLAND DATASHEETS AND PHOTOGRAPHS

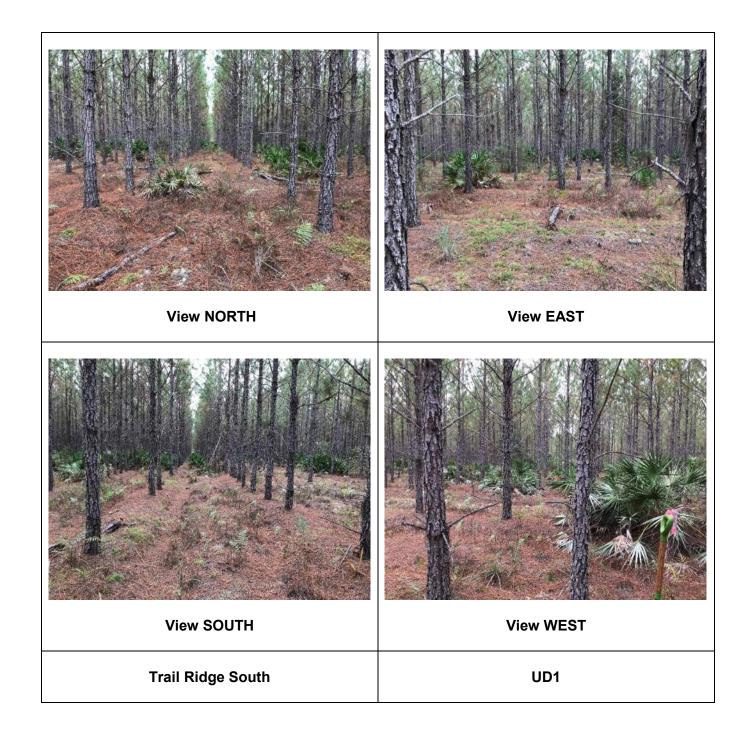
Project/Site: Trail Ridge South	City/County	: Bradford	Sampling Date: 11/1/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: UP-1
Investigator(s): D.Sank, C.Kul, T. Richardson	Section, Townsh	nip, Range: 13, -7, 22	
Landform (hillside, terrace, etc.): _terrace		ve, convex, none): None	Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: 82° 03' 26.3"	Datum: WGS 84
Soil Map Unit Name: Pelham Complex, 0-2%		NWI classifica	
Are climatic / hydrologic conditions on the site			explain in Remarks.)
Are Vegetation, Soil, or Hydrold	,,	e "Normal Circumstances" present	
Are Vegetation, Soil, or Hydrold		needed, explain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach		int locations, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes X No Is the Sam	oled Area	
	Yes No X within a We		No X
-	Yes X No		
Remarks: Rainfall conditions for Bradford County were measurable rain fell during the week leading some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	up to the site visit. The site has been his asonal high water table resuting in wetlan ave been constructed perpendicular to the	torically converted to pine plantation of vegetation within the furrow, how slope per silviculture BMPs. Since	on and has beds/furrows. In vever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	ks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines ((B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roo	ots (C3) Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	tion (D2)
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	(D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test	(D5)
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspe	ections), if available:	
Remarks: The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected that	during the wet season the water ta	ble is present within the top

	Absolute	Dominant	Indicator			
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:		
·				Number of Dominant Species		
				That Are OBL, FACW, or FAC:	2	(A)
				Total Number of Deminent		- ` '
·				Total Number of Dominant Species Across All Strata:	3	(B)
				'		_(5)
		-		Percent of Dominant Species That Are OBL, FACW, or FAC:	66.70/	(A /D)
·				Prevalence Index worksheet:	66.7%	(A/B)
					Marildinalar las re	
·		T 0		Total % Cover of:	Multiply by:	—
		=Total Cover		OBL species 25 x 1		_
50% of total cover:		of total cover:		FACW species 15 x 2		
apling/Shrub Stratum (Plot size: 10m x 10m)			FAC species0 x 3	3 =0	
Serenoa repens	10	Yes	FACU	FACU species 10 x 4	40	
. <u> </u>				UPL species0 x 5	5 = 0	
· .				Column Totals: 50 (A)	95	(B)
				Prevalence Index = B/A =	1.90	
				Hydrophytic Vegetation Indicato	ors:	
				1 - Rapid Test for Hydrophytic		
				X 2 - Dominance Test is >50%		
				3 - Prevalence Index is ≤3.0 ¹		
·	10	=Total Cover		Problematic Hydrophytic Vege	station ¹ (Eval	oin)
FOO/ of total acress			0	Problematic Hydrophytic vege	etation (Expia	all1)
1	5 20%	of total cover:	2			
Herb Stratum (Plot size: 10m x 10m)						
. Woodwardia virginica	25	Yes	OBL	¹ Indicators of hydric soil and wetla		must be
Andropogon glomeratus	15	Yes	FACW	present, unless disturbed or proble	ematic.	
				Definitions of Four Vegetation S	Strata:	
				Tree – Woody plants, excluding vi		
·				more in diameter at breast height	(DBH), regard	dless of
				height.		
·				1		
				Sapling/Shrub – Woody plants, e than 3 in. DBH and greater than 3.		
				than 3 in. DDIT and greater than 3.	.20 it (1 iii) ta	11.
0.						
. ———				Herb – All herbaceous (non-wood)		ardless
				of size, and woody plants less that	n 3.28 ft tall.	
2	40	-Tatal Cause		Manda Mina All was du visa a sur		00 ft :
		=Total Cover	•	Woody Vine – All woody vines green height.	eater than 3.2	:8 It In
	20 20%	of total cover:	8	neight.		
Voody Vine Stratum (Plot size: 10m x 10m)						
·						
i						
l						
5.				1		
' .		=Total Cover		Hydrophytic Vegetation		
·						
50% of total cover:	20%	of total cover:		Present? Yes X	No	

SOIL Sampling Point: UP-1

Profile Descripe	ription: (Describe to Matrix	o the dep		i ment tl c Featur		ator or co	onfirm the absence	of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	F	Remarks		
0-3	10YR 3/1	40	10YR 4/1	60			Sandy				
3-8	10YR 3/1	50	10YR 4/1	50			Sandy				
8-18	10YR 5/1	70	10YR 6/1	10			Sandy	20%	3/1 Mottles		
18-20	10YR 3/2	90	10YR 4/2	10			Sandy				
									_		
1 _{Type:} C=Ce	neartration D-Danie		-Paduood Matrix M		vod Son		² Logation:	DI -Doro Lining	M-Motriy		
	ncentration, D=Deple ndicators: (Applicat					d Grains.		PL=Pore Lining, for Problematic			
Histosol (ole to all	Thin Dark Su			S. T. U)		luck (A9) (LRR C	•		
	ipedon (A2)		Barrier Island	•	, ,			luck (A10) (LRR	•		
Black His			(MLRA 153		-	,		Prairie Redox (A	·		
—— Hydroger	n Sulfide (A4)		Loamy Muck			.RR O)		ide MLRA 150A	·		
	Layers (A5)		Loamy Gleye	d Matrix	x (F2)	•	Reduce	ed Vertic (F18)	,		
Organic I	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(outs	ide MLRA 150A	, 150B)		
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floodplain Sc	oils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	lous Bright Flood	lplain Soils (F20)		
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLR	RA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Pa	erent Material (F2	21)		
	rk Surface (A12)		Depleted Och	nric (F1	1) (MLR	4 151)	Very Shallow Dark Surface (F22)				
	airie Redox (A16) (M		A) Iron-Mangan	ese Mas	sses (F1	2) (LRR (
	ucky Mineral (S1) (Li	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
	eyed Matrix (S4)		Delta Ochric				•	RA 153B, 153D)			
	edox (S5)		Reduced Ver	•	, ,		· — `	Explain in Rema	rks)		
	Matrix (S6)		Piedmont Flo	•	,	, ,	•				
	face (S7) (LRR P, S,		Anomalous E	-							
	e Below Surface (S8)		(MLRA 149				³ Indicators of hydrophytic vegetation and				
(LRR S	s, I, U)		Very Shallow (MLRA 138		`	,	wetland hydrology must be present, unless disturbed or problematic.				
Restrictive I	ayer (if observed):		(MERA 130	5, 152A	III FE, I	34)	unie	ss disturbed or p	TODIETTALIC.		
	None										
Depth (in	ches):						Hydric Soil Prese	ent? Yes	NoX		
Remarks:											
Area within th	e plot is bedded and	furrowed	. No evidence of rec	ent alte	ration.						





Project/Site: Trail Ridge South	City/County: Bra	dford	Sampling Date: 12/5/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: UP-2
Investigator(s): D.Sank, D. LeJeune	Section, Township, Ra	ange: 13, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (concave, co	nvex, none): none	Slope (%):2
Subregion (LRR or MLRA): LRR T, MLRA 15		ong: -82° 03' 05.52"	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0-2 percent	 	NWI classifica	
Are climatic / hydrologic conditions on the site	•	•	explain in Remarks.)
Are Vegetation, Soil, or Hydrold	· -	rmal Circumstances" present	
Are Vegetation, Soil, or Hydrok		ed, explain any answers in R	
	site map showing sampling point lo		
Hydrophytic Vegetation Present?	Yes X No Is the Sampled A	Area	
1	Yes No X within a Wetland		No X
Wetland Hydrology Present?	Yes X No		
inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows in some areas	near normal for November and are 3.46 inches ing the prior week. The site has been historical asonal high water table resulting in wetland veg have been constructed perpendicular to the sl er within the furrows during abnormally wet peri	ly converted to pine plantation getation within the furrow, how ope per silviculture BMPs. S	on and has beds/furrows. In wever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:	advahaalvall that apply)		(minimum of two required)
Primary Indicators (minimum of one is require		Surface Soil Crac	` '
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U)	Drainage Pattern	ted Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7		X FAC-Neutral Test	
Water-Stained Leaves (B9)	,	X Sphagnum Moss	
Field Observations:			
	No X Depth (inches):		
Water Table Present? Yes X	No Depth (inches): 16		
		tland Hydrology Present?	Yes X No
(includes capillary fringe)	<u> </u>		
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspections	s), if available:	
Remarks:			
	silviculture practices. It is expected that during located at bottom of the furrows.	the wet season the water tal	ble is present with in the top

(D) ((D) () (D) ()	Absolute	Dominant	Indicator	1
ee Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A
				Total Number of Dominant Species Across All Strata: 8 (E
				`
				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		=Total Cover		OBL species 4 x 1 = 4
50% of total cover:	20%	of total cover:		FACW species 5 x 2 = 10
apling/Shrub Stratum (Plot size: 10m x 10m)			FAC species 22 x 3 = 66
Serenoa repens	8	Yes	FACU	FACU species 9 x 4 = 36
llex glabra	4	Yes	FACW	UPL species 2 x 5 = 10
Gordonia lasianthus	1	No	FACW	Column Totals: 42 (A) 126
				Prevalence Index = B/A = 3.00
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
	13	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	7 20%	of total cover:	3	<u> </u>
	7 20%	of total cover:	3	
erb Stratum (Plot size: 10m x 10m)	7 20%			Indicators of hydric cail and watland hydrology my
erb Stratum (Plot size: 10m x 10m) Andropogon virginicus		Yes	FAC	1
Andropogon virginicus Lachnanthes caroliniana	4	Yes Yes		¹ Indicators of hydric soil and wetland hydrology muspresent, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens	4 2	Yes	FAC OBL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites	4 2 2	Yes Yes Yes	FAC OBL OBL	present, unless disturbed or problematic.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum	2 2 1	Yes Yes Yes No	FAC OBL OBL FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cn
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites	2 2 1 2	Yes Yes Yes No Yes	FAC OBL OBL FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum	2 2 1 2	Yes Yes Yes No Yes	FAC OBL OBL FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cn more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, le
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum	2 2 1 2	Yes Yes Yes No Yes	FAC OBL OBL FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp.	2 2 1 2	Yes Yes Yes No Yes	FAC OBL OBL FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp.	2 2 1 2	Yes Yes Yes No Yes	FAC OBL OBL FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp.	2 2 1 2	Yes Yes Yes No Yes	FAC OBL OBL FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp.	2 2 1 2 2	Yes Yes Yes No Yes	FAC OBL OBL FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp.	4 2 2 1 2 2 2	Yes Yes Yes No Yes Yes Total Cover	FAC OBL OBL FACU FAC UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp. 50% of total cover:	4 2 2 1 2 2 2	Yes Yes Yes No Yes Yes	FAC OBL OBL FACU FAC UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, letthan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp. 50% of total cover:	4 2 2 1 2 2 2	Yes Yes Yes No Yes Yes Total Cover	FAC OBL OBL FACU FAC UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, letthan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp. 50% of total cover: vitis rotundifolia	2 2 1 2 2 2 2 13 7 20%	Yes Yes Yes No Yes Yes Yes Yes Yes Total Cover of total cover:	FAC OBL OBL FACU FAC UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp. 50% of total cover:	4 2 2 1 2 2 2 2 13 7 20%	Yes Yes Yes No Yes Yes Total Cover of total cover:	FAC OBL OBL FACU FAC UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp. 50% of total cover: body Vine Stratum (Plot size: 10m x 10m) Vitis rotundifolia Smilax bona-nox	13 7 20%	Yes Yes Yes No Yes Yes Yes Yes Yes Total Cover of total cover:	FAC OBL OBL FACU FAC UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp. 50% of total cover: oody Vine Stratum (Plot size: 10m x 10m) Vitis rotundifolia	13 7 20%	Yes Yes Yes No Yes Yes Yes Yes Yes Total Cover of total cover:	FAC OBL OBL FACU FAC UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp. 50% of total cover: coody Vine Stratum (Plot size: 10m x 10m) Vitis rotundifolia Smilax bona-nox	13 7 20%	Yes Yes Yes No Yes Yes Yes Yes Yes No Total Cover of total cover:	FAC OBL OBL FACU FAC UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
Andropogon virginicus Lachnanthes caroliniana Rhynchospora nitens Vaccinium myrsinites Dichanthelium dichotomum Cladonia sp. 50% of total cover: Vitis rotundifolia Smilax bona-nox	13 7 20%	Yes Yes Yes No Yes Yes Yes Yes Yes Total Cover of total cover:	FAC OBL OBL FACU FAC UPL 3 FAC FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.

SOIL Sampling Point: UP-2

Profile Desc Depth	ription: (Describe to Matrix	o the dept		iment th x Feature		ator or co	nfirm the absence	of indic	ators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Ren	narks	
0-3	10YR 3/1	60	<u> </u>				Sandy	Rema	nining soil un	masked 1	0YR 6/1
3-7	10YR 4/1	50					Sandy	Rema	nining soil un	masked 1	0YR 6/1
			40)/D 0/0	70			•				
7-22	10YR 4/1	30	10YR 6/2	70	<u>D</u>	<u>M</u>	Sandy	ре	pletions incre		gnout
									soil p	rofile.	
			_				_				•
¹Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	MS=Masl	ed San	d Grains.	² Location:	PL=Pore	e Lining, M=	Matrix.	
	ndicators: (Applicat								blematic Hy		3.
Histosol	(A1)		Thin Dark Su	urface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A1	0) (LRR S)		
Black His	Black Histic (A3) (MLRA 153B, 153D)							Prairie R	tedox (A16)		
Hydroge	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	.RR O)	(outs	ide MLI	RA 150A)		
	Layers (A5)		Loamy Gleye					ed Vertic	` '		
	Bodies (A6) (LRR, P,		Depleted Ma	` '			•		RA 150A, 15	•	
	cky Mineral (A7) (LRI		Redox Dark		` '				dplain Soils		
	esence (A8) (LRR U)		Depleted Da		` '				ght Floodpla 、	in Soils (F	20)
	ck (A9) (LRR P, T)	(111)	Redox Depre		(го)		•	A 153B	<i>)</i> terial (F21)		
	Below Dark Surface rk Surface (A12)	(A11)	Marl (F10) (L Depleted Oc		1) (MI D	۸ 151)			, ,	(E22)	
	airie Redox (A16) (M	I RΔ 150Δ					Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154)				
	ucky Mineral (S1) (LF		Umbric Surfa				O, P, I) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7)				
	leyed Matrix (S4)	0, 0,	Delta Ochric					A 153B		a maan (1	<i>σ.</i> ,
	edox (S5)		Reduced Ve				•		in Remarks)		
	Matrix (S6)		Piedmont Flo	•	, ,		· — `	•	,		
	face (S7) (LRR P, S,	T, U)	Anomalous I	Bright Flo	oodplain	Soils (F20))				
Polyvalu	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D))	³ Indicat	ors of h	ydrophytic v	egetation a	and
(LRR	S, T, U)		Very Shallow	/ Dark S	urface (F	⁻ 22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
· -	None										
Depth (in	iches):						Hydric Soil Prese	ent?	Yes	No_	<u>X</u>
Remarks: Soil boring is	terminated at 16 inch	nes due to	high water table. A	Area with	nin the pl	ot is bedde	ed and furrowed. No	evidend	e of recent	soil alterat	ion.



UP2



Project/Site: Trail Ridge South	City/County: Clay Sampling Date: 01/31/19
Applicant/Owner: The Chemours Company FC, LLC	State: FL Sampling Point: UP3
Investigator(s): N. Adams, B. McGee	Section, Township, Range: 18, -7, 23
Landform (hillside, terrace, etc.): terrace	Local relief (concave, convex, none): none Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 153A Lat: 29	
Soil Map Unit Name: Leon fine sand, 0-2 percent slopes	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for thi	
, ,	
Are Vegetation, Soil, or Hydrologysig	
Are Vegetation, Soil, or Hydrologyna	
SUMMARY OF FINDINGS – Attach site map s	showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X N	No Is the Sampled Area
	No X within a Wetland? Yes No X
	No
Remarks:	
Rainfall conditions for Clay County were higher than norma	al for January and are 5.94 inches above average for the prior 12 months. An average 1.86
	week. The site has been historically converted to pine plantation and has beds/furrows. In
, , ,	vater table resulting in wetland vegetation within the furrow, however upland plants remain onstructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed
cross slope, this can result in ponding of water within the f	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all	that apply) Surface Soil Cracks (B6)
Surface Water (A1)Aquatic I	Fauna (B13) Sparsely Vegetated Concave Surface (B8)
X High Water Table (A2)Marl Dep	posits (B15) (LRR U) Drainage Patterns (B10)
X Saturation (A3) Hydroge	n Sulfide Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized	Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	e of Reduced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent I	ron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muc	ck Surface (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (E	xplain in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum Moss (D8) (LRR T,U)
Field Observations:	
Surface Water Present? Yes No _X	Depth (inches):
Water Table Present? Yes X No	Depth (inches): 9
Saturation Present? Yes X No	Depth (inches): 6 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, a	gerial photos, previous inspections), if available:
Remarks:	
The natural landform has been converted for silviculture p	ractices.
,	

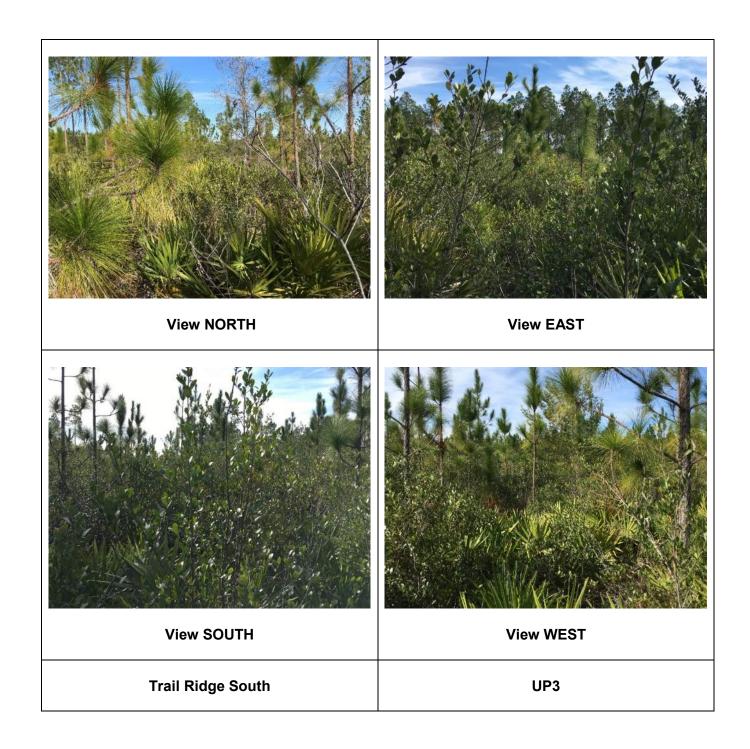
VEGETATION (Five Strata) – Use scientific names of plants. Sampling Point: UP3 Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 4. (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) =Total Cover Prevalence Index worksheet: Total % Cover of: ____ 50% of total cover: 20% of total cover: Sapling Stratum (Plot size:) OBL species ____ x1= x 2 = FACW species FAC species ____ x 3 = ____ x 4 = 3. FACU species ____ x 5 = 4. UPL species Column Totals: (A) 5. Prevalence Index = B/A = =Total Cover **Hydrophytic Vegetation Indicators:** 50% of total cover: 20% of total cover: 1 - Rapid Test for Hydrophytic Vegetation Shrub Stratum (Plot size:) 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 1. Problematic Hydrophytic Vegetation¹ (Explain) 3. 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. =Total Cover **Definitions of Five Vegetation Strata:** 50% of total cover: 20% of total cover: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. Herb Stratum (Plot size:) (7.6 cm) or larger in diameter at breast height (DBH). 1. **Sapling** – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 6. 7. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody 8. plants, except woody vines, less than approximately 3 9. ft (1 m) in height. Woody Vine - All woody vines, regardless of height. =Total Cover 20% of total cover: 50% of total cover: Woody Vine Stratum (Plot size:) 4. Hydrophytic =Total Cover Vegetation 20% of total cover: Present? 50% of total cover: Yes No Remarks: (If observed, list morphological adaptations below.)

	Absolute	Dominant	Indicator		
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:	
				Number of Dominant Species	(Λ)
				That Are OBL, FACW, or FAC: 4	_ ^{(A}
				Total Number of Dominant Species Across All Strata: 6	(B
				Percent of Dominant Species	_`_
				That Are OBL, FACW, or FAC: 66.7%	(A
				Prevalence Index worksheet:	_`
				Total % Cover of: Multiply by:	
		=Total Cover		OBL species 0 $x = 0$	
50% of total cover:	20%	of total cover:	:	FACW species 60 x 2 = 120	
apling/Shrub Stratum (Plot size: 10m x 10m))			FAC species 5 x 3 = 15	
Ilex coriacea	20	Yes	FACW	FACU species 40 x 4 = 160	
Serenoa repens	30	Yes	FACU	UPL species 10 x 5 = 50	
llex glabra	20	Yes	FACW	Column Totals: 115 (A) 345	
Pinus palustris	5	No	FACU	Prevalence Index = B/A = 3.00	
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
				3 - Prevalence Index is ≤3.0 ¹	
	75	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Expl	lain)
50% of total cover:3	8 20%	of total cover:	15		
erb Stratum (Plot size: 10m x 10m)					
Ilex coriacea	10	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology	/ mu:
	10	Yes Yes	FACW FACW	¹ Indicators of hydric soil and wetland hydrology present, unless disturbed or problematic.	/ mu:
llex glabra				1	/ mu
Ilex glabra Cladonia sp.	10	Yes	FACW	present, unless disturbed or problematic.	
Ilex glabra Cladonia sp. Dichanthelium dichotomum	10	Yes Yes	FACW UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar	6 cm
Ilex glabra Cladonia sp. Dichanthelium dichotomum	10 10 3	Yes Yes No	FACW UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.	6 cm
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5	Yes Yes No No	FACW UPL FAC FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height.	6 cm
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5	Yes Yes No No	FACW UPL FAC FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar	6 cm
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5 2	Yes Yes No No	FACW UPL FAC FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vines.	6 cm
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5 2	Yes Yes No No	FACW UPL FAC FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 ft (1 m) to	6 cm dles es, le
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5 2	Yes Yes No No	FACW UPL FAC FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vines.	6 cm dles es, le
Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5 2	Yes Yes No No	FACW UPL FAC FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 ft (1 m) to the Herb – All herbaceous (non-woody) plants, reg	6 cm dless es, le
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5 2	Yes Yes No No	FACW UPL FAC FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.2	6 cm dless es, le
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5 2	Yes Yes No No No	FACW UPL FAC FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall.	6 cm dless es, le
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus 0. 1. 2. 50% of total cover:2	10 10 3 5 2	Yes Yes No No No Total Cover	FACW UPL FAC FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.2	6 cm dless es, le
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus 0. 1. 2. 50% of total cover: 2	10 10 3 5 2	Yes Yes No No No Total Cover of total cover:	FACW UPL FAC FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.2	6 cm dles es, le all.
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus 1	10 10 3 5 2	Yes Yes No No No Total Cover of total cover:	FACW UPL FAC FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.2	6 cm dless es, le
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus 1. 2. 50% of total cover:2 Toody Vine Stratum (Plot size:10m x 10m)	10 10 3 5 2	Yes Yes No No No Total Cover of total cover:	FACW UPL FAC FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.2	6 cm dles es, le all.
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus 0. 50% of total cover: 2 Coody Vine Stratum (Plot size: 10m x 10m)	10 10 3 5 2	Yes Yes No No No Total Cover of total cover:	FACW UPL FAC FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.2	6 cm dles es, le all.
Ilex glabra Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus	10 10 3 5 2	Yes Yes No No No Total Cover of total cover:	FACW UPL FAC FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 ft (1 m) to the size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.3 height.	6 cm dles es, le all.
Cladonia sp. Dichanthelium dichotomum Pteridium aquilinum Andropogon virginicus 1. 2. 50% of total cover: 2 Voody Vine Stratum (Plot size: 10m x 10m)	10 10 3 5 2 2 40 20 20%	Yes Yes No No No Total Cover of total cover:	FACW UPL FAC FACU FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7. more in diameter at breast height (DBH), regar height. Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than 3.28 ft (1 m) to Herb – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.2	6 cm dles es, le all.

SOIL Sampling Point: UP3

		o the dept				itor or co	onfirm the absence	of indic	ators.)		
Depth	Matrix			x Featur			- .				
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture		Rem		
0-6	10YR 3/1						Sandy	Rema	aining soil un		0YR 6/1
6-8	10YR 3/1						Sandy		10YR 4	/1 30%	
								Rema	aining soil un	masked 1	0YR 6/1
8-16	10YR 4/1	15	10YR 7/1	10	D	M	Sandy		Remaining s	oil 10YR	6/1
17			De des est Matrice A				21 4:		- 1 in in NA	A - 4 - t	
	ncentration, D=Deple					Grains.			e Lining, M=I		.3.
_	ndicators: (Applicat	ole to all L				C T II)			blematic Hy	aric Soils	5°:
— Histosol (· ·		Thin Dark Su	-				,) (LRR O)		
	ipedon (A2)		Barrier Island			12)		•	0) (LRR S)		
Black His			(MLRA 15			DD 6\			Redox (A16)		
	Sulfide (A4)		Loamy Muck	•	` ' '	RR O)	•		RA 150A)		
	Layers (A5)		Loamy Gleye					ed Vertic			
	Bodies (A6) (LRR, P,		Depleted Ma	` '			•		RA 150A, 15	,	
	cky Mineral (A7) (LR		Redox Dark		` '				dplain Soils (-
	esence (A8) (LRR U)		Depleted Da		` '				ght Floodplai	n Soils (F	(20)
	ck (A9) (LRR P, T)		Redox Depre		(F8)		•	RA 153B	•		
	Below Dark Surface	(A11)	Marl (F10) (L						iterial (F21)		
	rk Surface (A12)		Depleted Oc				 ′		ark Surface	` '	
	airie Redox (A16) (M	•							RA 138, 152		′
	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa		-				Low Chroma	n Matrix (┐	「S7)
	eyed Matrix (S4)		Delta Ochric				•		s, 153D)		
	edox (S5)		Reduced Ve	•	, ,		· — `	Explain	in Remarks)		
	Matrix (S6)		Piedmont Flo								
	face (S7) (LRR P, S,		Anomalous I	-							
	Below Surface (S8))	(MLRA 14						ydrophytic ve	•	
(LRR S	S, T, U)		Very Shallov				wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss distu	rbed or probl	ematic.	
	ayer (if observed):										
Type: <u>I</u> Depth (in	one ches):						Hydric Soil Prese	ent?	Yes	No	X
Remarks:							,				
	terminated at 16 inch	nes due to	high water table. A	Area with	nin the pl	ot is bedo	ded and furrowed. No	eviden	ce of recent	soil altera	tion.





Project/Site: Trail Ridge South	City/County: Clay	Sampling Date: 01/31/19
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL Sampling Point: UP4
Investigator(s): N. Adams, B. McGee	Section, Township, Range:	18, -7, 23
Landform (hillside, terrace, etc.): terrace	Local relief (concave, convex,	none): convex Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 15		82°02'41.8"W Datum: WGS 84
Soil Map Unit Name: Hurricane fine sand, 0-5		NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	· · · · · · · · · · · · · · · · · · ·	Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrold		plain any answers in Remarks.)
		ions, transects, important features, etc.
Hydrophytic Vegetation Present?	es X No Is the Sampled Area	
	es No X within a Wetland?	Yes No _X_
Wetland Hydrology Present?	/es No X	
Remarks:	<u> </u>	
inches of rainfall was recorded at the site dur some areas the furrows may intercept the se- on the bed. Beds and furrows in some areas	ng the prior week. The site has been historically co asonal high water table resulting in wetland vegetation	ve average for the prior 12 months. An average 1.86 inverted to pine plantation and has beds/furrows. In on within the furrow, however upland plants remain her silviculture BMPs. Since furrows are constructed
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)
Field Observations:		
	No X Depth (inches):	
	No X Depth (inches):	
Saturation Present? Yes	No X Depth (inches): Wetland	Hydrology Present? Yes No _X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous inspections), if a	available:
Remarks:		
The natural landform has been converted for	silviculture practices.	
	·	

EGETATION (Four Strata) – Use scient	Absolute	Dominant	Indicator	Sampling Point:	
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:	
				Number of Dominant Species	•
				That Are OBL, FACW, or FAC:	2
				Total Number of Dominant Species Across All Strata:	3 (
				Percent of Dominant Species That Are OBL, FACW, or FAC:	66.7%
				Prevalence Index worksheet:	
					Multiply by:
	:	=Total Cover		OBL species 0 x 1 =	
50% of total cover:	20%	of total cover:		FACW species 1 x 2 =	2
pling/Shrub Stratum (Plot size: 10m x 10m				FAC species 33 x 3 =	99
Quercus chapmanii	5	No	UPL	FACU species 26 x 4 =	= 104
Serenoa repens	20	Yes	FACU	UPL species 17 x 5 =	= 85
Quercus falcata	1	No	FACU	Column Totals: 77 (A)	290
Rhus copallinum	5	No	UPL	Prevalence Index = B/A =	3.77
<u> </u>				Hydrophytic Vegetation Indicators	======= s:
				1 - Rapid Test for Hydrophytic V	/egetation
				X 2 - Dominance Test is >50%	•
				3 - Prevalence Index is ≤3.0 ¹	
		=Total Cover of total cover:	7	Problematic Hydrophytic Vegeta	ation ¹ (Explain
			7 FACU FAC	Problematic Hydrophytic Vegeta 1 Indicators of hydric soil and wetland present, unless disturbed or problem	d hydrology m
rb Stratum (Plot size: 10m x 10m) Pteridium aquilinum	16 20%	of total cover:	FACU	¹ Indicators of hydric soil and wetland	d hydrology m natic.
rb Stratum (Plot size: 10m x 10m) Pteridium aquilinum Aristida stricta	16 20% 5 15	of total cover: No Yes	FACU FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str	d hydrology m natic. rata:
rb Stratum (Plot size: 10m x 10m) Pteridium aquilinum Aristida stricta Quercus pumila	16 20% 5 15 5	of total cover: No Yes No	FACU FAC UPL	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D	d hydrology m natic. rata: es, 3 in. (7.6 c
rb Stratum (Plot size: 10m x 10m) Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata	5 15 5 15	No Yes No No No	FACU FAC UPL UPL	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine	d hydrology m natic. rata: es, 3 in. (7.6 c
rb Stratum (Plot size: 10m x 10m) Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii	5 15 5 15 1	No Yes No No No No	FACU FAC UPL UPL UPL	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Dieight.	d hydrology m natic. rata: es, 3 in. (7.6 c DBH), regardle
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus	16 20% 5 15 5 1 1 15 2	No Yes No No No No Yes	FACU FAC UPL UPL UPL FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D	d hydrology m natic. rata: es, 3 in. (7.6 c DBH), regardle
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus	16 20% 5 15 5 1 1 15 2	No Yes No No No No Yes	FACU FAC UPL UPL UPL FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Dheight. Sapling/Shrub – Woody plants, excluding vine more in diameter at breast height (Dheight.)	d hydrology m natic. rata: es, 3 in. (7.6 c DBH), regardle cluding vines, 8 ft (1 m) tall.
rb Stratum (Plot size: 10m x 10m) Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus	16 20% 5 15 5 1 1 15 2	No Yes No No No No Yes	FACU FAC UPL UPL UPL FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Dheight. Sapling/Shrub – Woody plants, excluding vine more in diameter at breast height (Dheight.) Herb – All herbaceous (non-woody)	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall.
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus	16 20% 5 15 5 1 1 15 2	No Yes No No No No Yes	FACU FAC UPL UPL UPL FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Dheight. Sapling/Shrub – Woody plants, excluding vine more in diameter at breast height (Dheight.)	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall.
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus	16 20% 5 15 5 1 1 15 2	No Yes No No No No Yes	FACU FAC UPL UPL UPL FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Diheight. Sapling/Shrub – Woody plants, excitan 3 in. DBH and greater than 3.25 Herb – All herbaceous (non-woody) of size, and woody plants less than 3.25 Woody Vine – All woody vines great	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus	16 20% 5 15 5 1 1 1 15 2	No Yes No No No Yes No No No Yes	FACU FAC UPL UPL FAC FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Dheight. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.2: Herb – All herbaceous (non-woody) of size, and woody plants less than 3.	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus 50% of total cover:	16 20% 5 15 5 1 1 1 15 2	No Yes No No Yes No No Tho Yes No Tho No Tho Tho Tho Tho Tho Tho Tho Tho Tho Th	FACU FAC UPL UPL FAC FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Diheight. Sapling/Shrub – Woody plants, excitan 3 in. DBH and greater than 3.25 Herb – All herbaceous (non-woody) of size, and woody plants less than 3.25 Woody Vine – All woody vines great	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.
rb Stratum (Plot size: 10m x 10m) Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus 50% of total cover: 2000 2	16 20% 5 15 5 1 1 1 15 2	No Yes No No Yes No No Tho Yes No Tho No Tho Tho Tho Tho Tho Tho Tho Tho Tho Th	FACU FAC UPL UPL FAC FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Diheight. Sapling/Shrub – Woody plants, excitan 3 in. DBH and greater than 3.25 Herb – All herbaceous (non-woody) of size, and woody plants less than 3.25 Woody Vine – All woody vines great	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.
rb Stratum (Plot size: 10m x 10m) Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus 50% of total cover: 200dy Vine Stratum (Plot size: 10m x 10m)	16 20% 5 15 5 1 1 1 15 2	No Yes No No No Yes No Total Cover of total cover:	FACU FAC UPL UPL FAC FAC 9	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Diheight. Sapling/Shrub – Woody plants, excitan 3 in. DBH and greater than 3.25 Herb – All herbaceous (non-woody) of size, and woody plants less than 3.25 Woody Vine – All woody vines great	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus 50% of total cover: Sody Vine Stratum (Plot size: 10m x 10m) Smilax bona-nox	16 20% 5 15 5 1 1 15 2 44 22 20%	No Yes No No No Yes No Total Cover of total cover:	FACU FAC UPL UPL FAC FAC 9 FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Diheight. Sapling/Shrub – Woody plants, excitan 3 in. DBH and greater than 3.25 Herb – All herbaceous (non-woody) of size, and woody plants less than 3.25 Woody Vine – All woody vines great	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus 50% of total cover: Smilax bona-nox	16 20% 5 15 5 1 1 15 2 44 22 20%	No Yes No No No Yes No Total Cover of total cover:	FACU FAC UPL UPL FAC FAC 9 FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Diheight. Sapling/Shrub – Woody plants, excitan 3 in. DBH and greater than 3.25 Herb – All herbaceous (non-woody) of size, and woody plants less than 3.25 Woody Vine – All woody vines great	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.
Pteridium aquilinum Aristida stricta Quercus pumila Quercus deminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus 50% of total cover: Smilax bona-nox Smilax laurifolia	16 20% 5 15 5 1 1 1 15 2 44 22 20%	No Yes No No No Yes No Total Cover of total cover:	FACU FAC UPL UPL FAC FAC 9 FAC	¹ Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Diheight. Sapling/Shrub – Woody plants, excitan 3 in. DBH and greater than 3.25 Herb – All herbaceous (non-woody) of size, and woody plants less than 3.25 Woody Vine – All woody vines great	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.
Pteridium aquilinum Aristida stricta Quercus pumila Quercus geminata Quercus chapmanii Dichanthelium dichotomum Andropogon virginicus 50% of total cover: Smilax bona-nox Smilax laurifolia	16 20% 5 15 5 1 1 1 15 2 22 20% 1 1 1 1	No Yes No No No Yes No Total Cover of total cover:	FACU FAC UPL UPL FAC FAC FAC 9 FAC FAC FAC FACW	¹Indicators of hydric soil and wetland present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Dheight. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.20 Herb – All herbaceous (non-woody) of size, and woody plants less than 3.20 Woody Vine – All woody vines greatheight.	d hydrology mnatic. rata: es, 3 in. (7.6 c) DBH), regardle cluding vines, 8 ft (1 m) tall. plants, regard 3.28 ft tall.

SOIL Sampling Point: UP4

	ription: (Describe t	o the dep				tor or co	onfirm the absence	of indica	ators.)		
Depth	Matrix			K Featur		. 2	- .		_		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture		Rem	arks	
0-4	10YR 3/1						Sandy		10YR 5	5/1 45%	
								Rema	ining soil un	masked 1	0YR 6/1
4-8.5	10YR 4/4	50					Sandy		10YR 5	5/4 50%	_
8.5-22	10YR 7/4	100					Sandy				
¹ Type: C=Co	oncentration, D=Deple	 etion, RM=	Reduced Matrix, M	 IS=Mas	ked Sand	Grains.	² Location:	PL=Pore	Lining, M=I	———— Matrix.	
	Indicators: (Applicat								lematic Hy		3.
Histosol			Thin Dark Su			S, T, U)			(LRR O)		
	pipedon (A2)		Barrier Island	-					0) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie R	edox (A16)		
	n Sulfide (A4)	Loamy Muck			RR O)			RA 150A)			
	Layers (A5)		Loamy Gleye	ed Matri	x (F2)	•	Reduce	ed Vertic	(F18)		
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma						RA 150A, 15	0B)	
	cky Mineral (A7) (LR		Redox Dark	, ,			•		lplain Soils (•	R P. T)
	esence (A8) (LRR U)	,	Depleted Da	rk Surfa	ce (F7)				ht Floodpla	. , .	
	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)			RA 153B)		•	,
	Below Dark Surface	(A11)	Marl (F10) (L		` ,		Red Pa	rent Mat	terial (F21)		
	ark Surface (A12)	,	Depleted Oc		1) (MLR	A 151)	Very SI	hallow D	ark Surface	(F22)	
	rairie Redox (A16) (M	LRA 150A					<u> </u>		RA 138, 152	` '	54)
	lucky Mineral (S1) (LI		/ Umbric Surfa						Low Chroma	•	,
	leyed Matrix (S4)	, ,	Delta Ochric					A 153B		`	,
	edox (S5)		Reduced Ver				•		n Remarks)		
	Matrix (S6)		Piedmont Flo	•	, ,		· — `	•	,		
	face (S7) (LRR P, S,	T. U)	Anomalous E								
	e Below Surface (S8)		(MLRA 14	-				tors of h	drophytic v	egetation	and
	S, T, U)		Very Shallow				wetland hydrology must be present,				
•	-, , -,		(MLRA 13		•	,	unless disturbed or problematic.				
Restrictive L	_ayer (if observed):										
Type:	None										
Depth (ir	nches):						Hydric Soil Prese	ent?	Yes	No_	<u>X</u>
Remarks:	he plot is bedded and	furrowed	No ovidence of re-	ont ooil	Laltaratio	n					
Alea williili li	ne piot is bedded and	iuiioweu.	No evidence of rec	Jeni Son	alleratio	11.					



UP4



Project/Site: Trail Ridge South	City/County	y: Clay	Sampling Date: 01/31/19
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: UP5
Investigator(s): N. Adams, B. McGee	Section, Towns	hip, Range: 18, -7, 23	
Landform (hillside, terrace, etc.): terrace	 Local relief (conca	ave, convex, none): convex	Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 15	<u> </u>	Long: -82°02'36.7"W	Datum: WGS 84
Soil Map Unit Name: Hurricane fine sand, 0-5			ation: Upland
Are climatic / hydrologic conditions on the site	•		explain in Remarks.)
Are Vegetation, Soil, or Hydrole		re "Normal Circumstances" presen	t? Yes X No
Are Vegetation, Soil, or Hydrole	ogynaturally problematic? (If	f needed, explain any answers in R	Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling po	oint locations, transects, in	mportant features, etc.
Hydrophytic Vegetation Present?	Yes No X Is the Sam	nnled Area	
, , , ,	Yes No X within a W		No X
l	Yes No X		
Remarks:			
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has been his asonal high water table resulting in wetla have been constructed perpendicular to	storically converted to pine plantat and vegetation within the furrow, ho the slope per silviculture BMPs.	ion and has beds/furrows. In owever upland plants remain
HYDROLOGY			
	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Surface Soil Crainage Pattern Moss Trim Lines Dry-Season Wat Crayfish Burrows Saturation Visible Geomorphic Pos Shallow Aquitand FAC-Neutral Tes Sphagnum Moss Wetland Hydrology Present?	ted Concave Surface (B8) as (B10) a (B16) are Table (C2) as (C8) are on Aerial Imagery (C9) at (D3) at (D5)
Remarks: The natural landform has been converted for	silviculture practices.		

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Dominant Species
				That Are OBL, FACW, or FAC:1 (A
				Total Number of Dominant Species Across All Strata: 2 (E
•				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		=Total Cover		OBL species 0 $x = 0$
50% of total cover:		of total cover:		FACW species 10 x 2 = 20
apling/Shrub Stratum (Plot size: 10m x 10m		o. 101a. 0010.1		FAC species 50 x 3 = 150
Quercus falcata	5	No	FACU	FACU species 28 x 4 = 112
Quercus chapmanii	3	No	UPL	UPL species 11 x 5 = 55
Quercus geminata	1	No	UPL	Column Totals: 99 (A) 337
llex glabra	5	No	FACW	Prevalence Index = B/A = 3.40
Serenoa repens	15	Yes	FACU	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
	29	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	5 20%	of total cover	6	<u> </u>
	5 20%	of total cover:	6	
erb Stratum (Plot size: 10m x 10m)				
lerb Stratum (Plot size: 10m x 10m) . Ilex glabra	5	No	FACW	¹ Indicators of hydric soil and wetland hydrology mu
erb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta				present, unless disturbed or problematic.
lerb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites	5 50	No Yes	FACW FAC FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
lerb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum	5 50 5	No Yes No	FACW FAC	present, unless disturbed or problematic.
erb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata	5 50 5 3	No Yes No No	FACW FACU FACU UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm
lerb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila	5 50 5 3 5	No Yes No No No	FACW FAC FACU FACU	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height.
erb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila	5 50 5 3 5	No Yes No No No	FACW FACU FACU UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, le
lerb Stratum (Plot size: 10m x 10m) llex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila	5 50 5 3 5 2	No Yes No No No No	FACW FACU FACU UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height.
lerb Stratum (Plot size: 10m x 10m) . Ilex glabra . Aristida stricta . Vaccinium myrsinites . Pteridium aquilinum . Quercus geminata . Quercus pumila	5 50 5 3 5 2	No Yes No No No No	FACW FACU FACU UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, letthan 3 in. DBH and greater than 3.28 ft (1 m) tall.
erb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila	5 50 5 3 5 2	No Yes No No No No	FACW FACU FACU UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles
lerb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila 0 1	5 50 5 3 5 2	No Yes No No No No	FACW FACU FACU UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, letthan 3 in. DBH and greater than 3.28 ft (1 m) tall.
lerb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila 0 1	5 50 5 3 5 2	No Yes No No No No	FACW FACU FACU UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
lerb Stratum (Plot size: 10m x 10m) . Ilex glabra . Aristida stricta . Vaccinium myrsinites . Pteridium aquilinum . Quercus geminata . Quercus pumila	5 50 5 3 5 2	No Yes No No No No Total Cover	FACW FAC FACU UPL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles
lerb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila 1. 2. 50% of total cover: 3	5 50 5 3 5 2	No Yes No No No No	FACW FAC FACU UPL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
erb Stratum (Plot size: 10m x 10m) llex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila 1. 2. 50% of total cover: 3 Voody Vine Stratum (Plot size: 10m x 10m)	5 50 5 3 5 2 2 70 35 20%	No Yes No No No No Total Cover of total cover:	FACW FAC FACU UPL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
erb Stratum (Plot size: 10m x 10m) llex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila 0. 1. 2. 50% of total cover: 3 Voody Vine Stratum (Plot size: 10m x 10m)	5 50 5 3 5 2 2 70 85 20%	No Yes No No No No Total Cover of total cover:	FACW FAC FACU UPL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
lerb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila 1. 2. 50% of total cover: 3 Voody Vine Stratum (Plot size: 10m x 10m)	5 50 5 3 5 2 	No Yes No No No No Total Cover of total cover:	FACW FAC FACU UPL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
erb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila 1. 2. 50% of total cover: 3 //oody Vine Stratum (Plot size: 10m x 10m)	5 50 5 3 5 2 2 70 35 20%	No Yes No No No No Total Cover of total cover:	FACW FAC FACU UPL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
lerb Stratum (Plot size: 10m x 10m) . Ilex glabra . Aristida stricta . Vaccinium myrsinites . Pteridium aquilinum . Quercus geminata . Quercus pumila	5 50 5 3 5 2 	No Yes No No No No Total Cover of total cover:	FACW FAC FACU UPL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft
Herb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Pteridium aquilinum Quercus geminata Quercus pumila 1. 2. 50% of total cover: 3 Voody Vine Stratum (Plot size: 10m x 10m) 1. 3. 50% of total cover: 3 Voody Vine Stratum (Plot size: 10m x 10m)	5 50 5 3 5 2 	No Yes No No No Total Cover of total cover:	FACW FAC FACU UPL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.
Herb Stratum (Plot size: 10m x 10m) Ilex glabra Aristida stricta Vaccinium myrsinites Peteridium aquilinum Quercus geminata Quercus pumila 1. 2. 50% of total cover: 3 Voody Vine Stratum (Plot size: 10m x 10m) 1. 2.	5 50 5 3 5 2 	No Yes No No No No Total Cover of total cover:	FACW FAC FACU UPL UPL 14	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles height. Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft height.

SOIL Sampling Point: UP5

Profile Desc	ription: (Describe t	o the dept	h needed to docւ	ıment tl	he indica	itor or co	onfirm the absence	of indic	ators.)		
Depth	Matrix			k Featur							
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture		Rem	arks	
0-4.5	10YR 3/1						Sandy		10YR 5	5/1 45%	
								Rema	ining soil un	masked 1	0YR 6/1
4.5-7.5	10YR 4/4	_50					Sandy		10YR 5	5/4 50%	
								Rema	ining soil un	masked 1	0YR 6/1
7.5-23	10YR 7/4	100					Sandy				
										_	
¹Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	 IS=Mas	ked Sand	Grains.	² Location:	PL=Pore	E Lining, M=I	Matrix.	
Hydric Soil I	ndicators: (Applical	ble to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Prol	olematic Hy	dric Soils	3.
Histosol	(A1)		Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A1	0) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie R	edox (A16)		
— Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outs	ide MLI	RA 150A)		
 Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic	(F18)		
Organic	Bodies (A6) (LRR, P,	, T, U)	Depleted Ma	trix (F3)			— (outs	ide MLI	RA 150A, 15	0B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Flood	dplain Soils (F19) (LRF	R P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bri	ght Floodpla	in Soils (F	20)
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLF	RA 153B)		
 Depleted	Below Dark Surface	(A11)	Marl (F10) (L	Mari (F10) (LRR U)				arent Ma	terial (F21)		
Thick Da	rk Surface (A12)		Depleted Oc	Depleted Ochric (F11) (MLRA 151)				hallow D	ark Surface	(F22)	
Coast Pr	airie Redox (A16) (M	LRA 150A)	Iron-Mangan	Iron-Manganese Masses (F12) (LRR C				` ` ` ` ` ` `			
Sandy M	ucky Mineral (S1) (L l	RR O, S)	Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				S7)
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (MLRA 15	1)	(MLRA 153B, 153D)				
Sandy R	edox (S5)		Reduced Ve	rtic (F18) (MLRA	150A, 15	Other (Explain	in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLR	A 149A)				
Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	0)				
Polyvalue	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)		³ Indica	tors of h	ydrophytic v	egetation a	and
(LRR S	S, T, U)		Very Shallow	/ Dark S	urface (F	22)	wetland hydrology must be present,				t,
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
	None							_			
Depth (in	nches):						Hydric Soil Prese	ent?	Yes	No_	<u>X</u>
Remarks: Area within th	ne plot is bedded and	I furrowed	No evidence of red	cent soil	alteratio	n					



UP5



Project/Site: Trail Ridge South	City.	/County: Bradford	Sampling Date: 11/28/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: F	L Sampling Point: W3_WD1
Investigator(s): B. McGee, N. Adams	Section,	Township, Range: 12, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief	(concave, convex, none): none	Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 25.67"	Datum: WGS 84
Soil Map Unit Name: Plummer-Plummer wet,		· ·	ification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed?	Are "Normal Circumstances" pres	sent? Yes X No
Are Vegetation, Soil, or Hydrok			
SUMMARY OF FINDINGS – Attach			·
Hydrophytic Vegetation Present?	Yes X No Is th	ne Sampled Area	
1		in a Wetland? Yes	(No
'	Yes X No	u 1701.a.i.u .	<u> </u>
Remarks:			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the set the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ring the prior week. The site has be asonal high water table resuting in we been constructed perpendicula	een historically converted to pine plant n wetland vegetation within the furrow, ar to the slope per silviculture BMPs. S	tation and has beds/furrows. In however upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil (
Surface Water (A1)	Aquatic Fauna (B13)		etated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)		
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lir	
Water Marks (B1)	Oxidized Rhizospheres on Liv	ving Roots (C3) Dry-Season V	Vater Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C	(4) Crayfish Burro	ows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tille	ed Soils (C6) Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic F	Position (D2)
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquit	ard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)		X Sphagnum M	oss (D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Presen	t? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previou	us inspections), if available:	
Remarks:			
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expecte	ed that during the wet season the wate	r table is present within the top

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

ee Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
	3			
Gordonia lasianthus		No	FACW	Number of Dominant Species
				That Are OBL, FACW, or FAC: 4 (A)
·		-		Total Number of Dominant
				Species Across All Strata: 4 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC:100.0%(A/B
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	3	=Total Cover		OBL species 5 x 1 = 5
50% of total cover:	2 20%	of total cover:	1	FACW species 35 x 2 = 70
pling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 8 x 3 = 24
Morella cerifera	5	Yes	FAC	FACU species 0 x 4 = 0
Ilex glabra	15	Yes	FACW	UPL species 0 x 5 = 0
Lyonia lucida	3	No	FACW	Column Totals: 48 (A) 99 (B
Gordonia lasianthus	2	No	FACW	Prevalence Index = B/A = 2.06
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.0¹
				X 0 - 1 Tevalence mack is =0.0
		=Total Cover of total cover:	5	Problematic Hydrophytic Vegetation ¹ (Explain)
			5 FACW OBL	
Osmundastrum cinnamomeum	3 20%	of total cover:	FACW	¹ Indicators of hydric soil and wetland hydrology must l
Osmunda spectabilis 10m x 10m 10m x 10	3 20% 5 1	of total cover: Yes No	FACW OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Osmunda spectabilis Lachnanthes caroliniana	3 20% 5 1 2	Yes No No	FACW OBL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of the control of the co
Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica	3 20% 5 1 2 2	Yes No No No	FACW OBL OBL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of the control of the co
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra	3 20% 5 1 2 2 5	Yes No No No Yes	FACW OBL OBL OBL FACW	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus	3 20% 5 1 2 2 5 1 1 1	Yes No No Yes No Yes No	FACW OBL OBL FACW FACW	Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida	3 20% 5 1 2 2 5 1 1 1 1	Yes No No No Yes No No No Yes No	FACW OBL OBL FACW FACW	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp.	3 20% 5 1 2 2 5 1 1 1 1	Yes No No No Yes No	FACW OBL OBL FACW FACW FAC FACW	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp.	3 20% 5 1 2 2 5 1 1 1 1	Yes No No No Yes No	FACW OBL OBL FACW FACW FAC FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp.	3 20% 5 1 2 2 5 1 1 1 1	Yes No No No Yes No	FACW OBL OBL FACW FACW FAC FACW	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp.	3 20% 5 1 2 5 1 1 1 1 1	Yes No No No Yes No	FACW OBL OBL FACW FACW FAC FACW	Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp.	3 20% 5 1 2 5 1 1 1 1 1 1 19	Yes No No Yes No	FACW OBL OBL FACW FACW FAC FACW FAC	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp.	3 20% 5 1 2 5 1 1 1 1 1 1 19	Yes No No No Yes No	FACW OBL OBL FACW FACW FAC FACW	Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp. 50% of total cover: 1	3 20% 5 1 2 5 1 1 1 1 1 1 19	Yes No No No No No No No No Tes No No No Total Cover of total cover:	FACW OBL OBL FACW FACW FAC FACW FAC	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp.	3 20% 5 1 2 5 1 1 1 1 1 1 19	Yes No No Yes No	FACW OBL OBL FACW FACW FAC FACW FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp. 50% of total cover: 1	3 20% 5 1 2 5 1 1 1 1 1 1 19	Yes No No No No No No No No Tes No No No Total Cover of total cover:	FACW OBL OBL FACW FACW FAC FACW FAC	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp. 50% of total cover: 1	3 20% 5 1 2 5 1 1 1 1 1 1 19	Yes No No No No No No No No Tes No No No Total Cover of total cover:	FACW OBL OBL FACW FACW FAC FACW FAC	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp. 50% of total cover: 1	3 20% 5 1 2 5 1 1 1 1 1 1 19	Yes No No No No No No No No Tes No No No Total Cover of total cover:	FACW OBL OBL FACW FACW FAC FACW FAC	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp. 50% of total cover: 1	3 20% 5 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes No	FACW OBL OBL FACW FACW FAC FACW FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Osmundastrum cinnamomeum Osmunda spectabilis Lachnanthes caroliniana Woodwardia virginica Ilex glabra Gordonia lasianthus Andropogon virginicus Lyonia lucida Rubus sp. 50% of total cover: 1	3 20% 5 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes No No No No No No No No Tes No No No Total Cover of total cover:	FACW OBL OBL FACW FACW FAC FACW FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.

SOIL Sampling Point: W3_WD1

		o the dep				itor or co	onfirm the absence	of indicators.)			
Depth	Matrix			Featur		. 2	- .	5			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0-4.5	10YR 3/1	20					Sandy	Remaining soil unmasked 10YR 6/1			
4.5-7	10YR 3/1	30	10YR 6/1	10	<u>D</u>	<u>M</u>	Sandy	Remaining soil unmasked 10YR 5/1			
7-12	10YR 4/1	40	10YR 6/1		<u>D</u>	M	Sandy	Remaining soil unmasked 10YR 5/1			
12-20	10YR 4/1	50					Sandy	Remaining soil unmasked 10YR 5/1			
1- 0.0							2, ,,				
	ncentration, D=Deple					Grains.		PL=Pore Lining, M=Matrix.			
=	idicators: (Applicat	ole to all L						for Problematic Hydric Soils ³ :			
Histosol (· ·		Thin Dark Su					Muck (A9) (LRR O)			
	pedon (A2)		Barrier Island		-	12)		Muck (A10) (LRR S)			
Black His	` ,		(MLRA 153					Prairie Redox (A16)			
	Sulfide (A4)		Loamy Muck	•	· , ·	RR O)	•	side MLRA 150A)			
	Layers (A5)		Loamy Gleye					ed Vertic (F18)			
	Bodies (A6) (LRR, P,		Depleted Mat	` '			•	side MLRA 150A, 150B)			
	ky Mineral (A7) (LRI	R P, T, U)	Redox Dark S		` '			ont Floodplain Soils (F19) (LRR P, T)			
	sence (A8) (LRR U)		Depleted Dar		` '			alous Bright Floodplain Soils (F20)			
	k (A9) (LRR P, T)		Redox Depre		(F8)		•	RA 153B)			
	Below Dark Surface	(A11)		Marl (F10) (LRR U)				Red Parent Material (F21)			
	k Surface (A12)			Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)			
	nirie Redox (A16) (M			_Iron-Manganese Masses (F12) (LRR C							
	ıcky Mineral (S1) (LF	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
	eyed Matrix (S4)		Delta Ochric				(MLRA 153B, 153D)				
Sandy Re	` '		Reduced Ver	•				Explain in Remarks)			
X Stripped I	` '		Piedmont Flo		-						
	ace (S7) (LRR P, S,		Anomalous E	-		-					
	Below Surface (S8)		(MLRA 149					tors of hydrophytic vegetation and			
(LRR S	, T, U)		Very Shallow				wetland hydrology must be present,				
			(MLRA 138	3, 152A	in FL, 1	54)	unle	ss disturbed or problematic.			
	ayer (if observed):										
-	lone						Unidada Call Bassa	auto Van V Na			
Depth (inc	enes):						Hydric Soil Prese	ent? Yes X No			
Remarks:		£	No saddana a sebasa	4	-14 4' -						
Area within the	e plot is bedded and	furrowed.	No evidence of rec	ent soil	alteratio	n.					



W3_WD1



Project/Site: Trail Ridge South	City/County: B	radford	Sampling Date: 11/28/18
Applicant/Owner: The Chemours Compan	ıy FC, LLC	State: FL	Sampling Point: W3_UD1
Investigator(s): B. McGee, N. Adams	Section, Township,	Range: 12, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (concave,	convex, none): none	Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15	<u> </u>	Long: -82° 03' 24.57"	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0-2 percent		NWI classificat	
Are climatic / hydrologic conditions on the site	,		explain in Remarks.)
Are Vegetation, Soil, or Hydrold		Normal Circumstances" present	
Are Vegetation, Soil, or Hydrold	ogynaturally problematic? (If nee	eded, explain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point	locations, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No Is the Sample	d Aroa	
, , , ,	Yes No X within a Wetla		No X
· ·	Yes X No		<u> </u>
Remarks:	<u> </u>		
Rainfall conditions for Bradford County were	near normal for November and are 3.46 inch	es above average for the prior	12 months. An average 0.65
inches of rainfall was recorded at the site duri			_
some areas the furrows may intercept the sea			
the bed. Beds and furrows in some areas ha			e furrows are constructed
cross slope, this can result in ponding of wate	in within the furrows during aphormally wet p	enous.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracl	
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (
Water Marks (B1)	Oxidized Rhizospheres on Living Roots		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	=
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (` '
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test	
Water-Stained Leaves (B9)		X Sphagnum Moss (
Field Observations:		<u> </u>	
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes			
Saturation Present? Yes		Vetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspection	ons), if available:	
Not available			
Remarks:			
The natural landform has been converted for 12 inches of the soil profile. Sphagnum moss	·	0	le is present with in the top
12 inches of the soil profile. Spriagrium moss	is sparsely located on the top, middle and b	ottom of the furrows.	

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W3 UD1 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 10m x 10m) % Cover Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 5 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 60.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover x 1 = 50% of total cover: **FACW** species 20% of total cover: x2 =Sapling/Shrub Stratum (Plot size: 10m x 10m) 14 x 3 = FAC species 25 x 4 = 1. Serenoa repens **FACU FACU** species 100 Yes 2. Morella cerifera 5 No FAC UPL species 10 x 5 = 50 Yes 70 (B) 3. llex glabra 15 **FACW** Column Totals: (A) 233 4. Prevalence Index = B/A = 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. 45 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Rubus sp. FAC Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Ilex glabra 5 Yes **FACW** 3 3. Andropogon virginicus No FAC **Definitions of Four Vegetation Strata:** 10 4 Cladonia sp. Yes UPI Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. Hypericum tetrapetalum 1 No OBL height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 24 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 12 Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W3_UD1

		o the dep				tor or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (maint)	%		x Featur %		Loc ²	Touture	Do	m orleo		
(inches)	Color (moist)		Color (moist)		Type ¹	LOC	Texture		marks		
0-6.5	10YR 3/1	30	10)/5 0//				Sandy		nmasked 10YR 6/1		
6.5-14	10YR 4/1	90	10YR 6/1	10	<u>D</u>	M	Sandy	Depletions increase to 20% at 14 inch			
14-20	10YR 3/1	50					Sandy	Remaining soil 10YR 4/2			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Masl	ked Sand	Grains.	² Location:	PL=Pore Lining, M:	=Matrix.		
Hydric Soil In	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic H	ydric Soils³:		
Histosol ((A1)		Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)			
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	luck (A10) (LRR S)			
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie Redox (A16))		
Hydrogen	Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(outs	ide MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	x (F2)		Reduce	ed Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(outs	ide MLRA 150A, 1	50B)		
5 cm Muc	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils	(F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bright Floodpl	ain Soils (F20)		
1 cm Muc	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Parent Material (F21)				
Thick Dar	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) (M	LRA 150A	Iron-Mangan	ese Mas	sses (F12	2) (LRR (
Sandy Mu	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (N	MLRA 15	1)	(MLR	RA 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ve	rtic (F18) (MLRA	150A, 1	50B) Other (Explain in Remarks	s)		
Stripped I	Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLR	A 149A)				
Dark Surf	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	(0)				
Polyvalue	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicat	tors of hydrophytic	vegetation and		
(LRR S	s, T, U)		Very Shallow	/ Dark S	urface (F	22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
· · · -	None										
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No_X_		
Remarks:	e plot is bedded and	furrowed	No ovidonoo of ro	oont ooil	altoratio	n					
Area within th	e plot is bedded and	iurrowea.	No evidence of rec	zeni son	aiteratio	Π.					



W3_UD1



Project/Site: Trail Ridge South	City/County: Brad	dford Sampling Date: 11/28/18
Applicant/Owner: The Chemours Compan	ny FC, LLC	State: FL Sampling Point: W3_WD2
Investigator(s): B. McGee, N. Adams	Section, Township, Ra	ange: 12, -7, 22
Landform (hillside, terrace, etc.): terrace	 Local relief (concave, cor	nvex, none): none Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 153		ong: -82° 03' 20.42" Datum: WGS 84
Soil Map Unit Name: Allanton loamy sand		NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes	X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed? Are "Nor	rmal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrolo		ed, explain any answers in Remarks.)
<u> </u>		ocations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes X No Is the Sampled A	Area
1 ' ' '	Yes X No within a Wetland	
l	Yes X No	
Remarks:		
inches of rainfall was recorded at the site duri some areas the furrows may intercept the sea the bed. Beds and furrows in some areas have	ing the prior week. The site has been historicall asonal high water table resuting in wetland vege	above average for the prior 12 months. An average 0.65 ly converted to pine plantation and has beds/furrows. In etation within the furrow, however upland plants remain on a per silviculture BMPs. Since furrows are constructed ods.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check <u>all that apply)</u>	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C	
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
l -	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	1	X FAC-Neutral Test (D5)
X Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)
Field Observations:		
	No X Depth (inches):	
	No X Depth (inches):	· · · · · · · · · · · · · · · · · · ·
	No X Depth (inches): Wet	tland Hydrology Present? Yes X No
(includes capillary fringe)		N 10 11 11 11 11 11 11 11 11 11 11 11 11
Describe Recorded Data (stream gauge, mon Not available	nitoring well, aerial photos, previous inspections	s), if available:
Remarks:		
The natural landform has been converted for		at the top, bottom, and sides of the furrow. Water stained ter table is present within the top 12 inches of the soil

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W3 WD2 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 2 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 13 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: 10m x 10m) x 3 = FAC species x 4 = 1. Vaccinium corymbosum **FACW** FACU species 16 x 5 = 2. Serenoa repens Yes **FACU** UPL species 2 10 1 25 (A) 55 (B) 3. llex glabra No **FACW** Column Totals: 4. Prevalence Index = B/A = 2 20 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Lachnanthes caroliniana 10 OBL Yes ¹Indicators of hydric soil and wetland hydrology must be 2 present, unless disturbed or problematic. 2. Woodwardia virginica No OBL 2 3. Andropogon virginicus No FAC **Definitions of Four Vegetation Strata:** 2 UPI 4 Cladonia sp. Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. Dichanthelium dichotomum 2 No FAC height. 6. Scirpus cyperinus 1 No OBL 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 19 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 10 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 90% cover. Not included in calculations because it was planted. No woody vines were identified within the plot.

US Army Corps of Engineers

SOIL Sampling Point: W3_WD2

Depth Matrix (inches) Golor (molst) % Color (molst) % Type Loc Sandy Remaining soil unmasked 10YR 6/1 5-22 10YR 4/1 90 10YR 6/1 10 D M Sandy Deptedions increase to 20% at 12'.			o the dep				ator or co	onfirm the absence	of indicators.)	
0-5 10YR 2/1 40 Sandy Remaining soil unmasked 10YR 6/1 5-22 10YR 4/1 90 10YR 6/1 10 D M Sandy Depletions increase to 20% at 12° and continues to increase downward through the profile. **Type: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.** **Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosal (A1) Thin Dark Surface (S9) (LRR S, T, U) Histic Epipedon (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) (MLRA 153B, 153D) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) LOAMY Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) (LRR O, S) John Surface (F10) (LRR U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Seyed Matrix (S4) Sandy Seyed Matrix (S4) Sandy Seyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A) Reduced Vertic (F18) (MLRA 150B) Pledmont Floodplain Soils (F20) (MLRA 138, 153D) Anomalous Bright Floodplain Soils (F20) Very Shallow Dark Surface (F22) (MLRA 138, 153D) Very Shallow Dark Surface (F19) (MLRA 149A) None Depth (Inches): Hydric Soil Present? Yes X No Remarks:	Depth (inches)	Matrix Color (moist)	0/2				Loc²	Texture	Remarks	
10YR 4/1 90 10YR 6/1 10 D M Sandy Depletions increase to 20% at 12" and continues to increase downward through the profile.	,			Color (moist)	70	Туре				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Cacation: PL=Pore Lining, M=Matrix.				10VR 6/1	10			•		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. This coil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Histosol (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR 0) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F2) Muck Presence (A8) (LRR P, T) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Coast Prairie Redox (A16) (MLRA 150A) Piedmont Floodplain Soils (F20) Murk Presence (A8) (LRR P, T) Depleted Below Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Coast Prairie Redox (A16) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A, 150B) Piedmont Floodplain Soils (F20) Mink Presence (A8) (LRR P, T) Anomalous Bright Floodplain Soils (F20) Murk Presence (A12) Depleted Dehric (F11) (MLRA 151) Depleted Below Dark Surface (A12) Depleted Ochric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A) Sandy Redox (S5) Piedmont Floodplain Soils (F20) Mink A 153B, 152A in FL, 154) Dark Surface (S7) (MLRA 153B, 152A in FL, 154) Dark Surface (S8) (MLRA 158, 152A) Other (Explain in Remarks) Restrictive Layer (If observed): Type: None Depth (inches): Hydric Soil Present? Yes X No_	<u> </u>	1011(4/1		10111 0/1	10		101	Carray	· · ·	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) (Journal Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Corganic Bodies (A6) (LRR, P, T, U) Boepleted Matrix (F2) Depleted Matrix (F3) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F19) (LRR O, P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Dark Surface (S7) (LRR P, S, T, U) Delta Cohric (F17) (MLRA 150A, 150B) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR V, T, U) Polyvalue Below Surface (S8) (LRR A 153C, 153D) Depleted Layer (if observed): Type: None Depth (inches): Hydric Soil Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR O, S) 1 cm Muck (A9) (LRR O, S) Dark Surface (A12) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Dark Surface (F17) Redox Depressions (F8) Reduced Vertic (F18) Reduced Vertic (F										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) (Journal Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Corganic Bodies (A6) (LRR, P, T, U) Boepleted Matrix (F2) Depleted Matrix (F3) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F19) (LRR O, P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Dark Surface (S7) (LRR P, S, T, U) Delta Cohric (F17) (MLRA 150A, 150B) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR V, T, U) Polyvalue Below Surface (S8) (LRR A 153C, 153D) Depleted Layer (if observed): Type: None Depth (inches): Hydric Soil Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR O, S) 1 cm Muck (A9) (LRR O, S) Dark Surface (A12) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Dark Surface (F17) Redox Depressions (F8) Reduced Vertic (F18) Reduced Vertic (F										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) How Presence (A6) (LRR P, T, U) Depleted Matrix (F2) Depleted Delrow Dark Surface (A12) Coast Prairie Redox (A16) Loamy Muck Mineral (F1) (LRR U) Thick Dark Surface (A12) Coast Prairie Redox (A16) Muck A9 (Icra P, T, U) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (LRR P, T, U) Sandy Redox (S5) Dark Surface (S8) Cost Prairie Redox (A16) (outside MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F19) (Icra P, T) Anomalous Bright Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Other (Explain in Remarks) Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No Remarks:										
Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U)	¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.	
Histic Epipedon (A2) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR O) Corganic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) Marl (F10) (LRR D) Piedmont Floodplain Soils (F20) Mouth Presence (A8) (LRR U) Depleted Oberic (F11) Thick Dark Surface (A11) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Reduced Vertic (F18) Coast Prairie Redox (A16) Marl (F10) (LRR U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A) Piedmont Floodplain Soils (F20) Marl (F10) (LRR O, F, T) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A) Piedmont Floodplain Soils (F19) (MLRA 150B) X Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Floodplain Soils (F20) (MLRA 153B, 153D) Other (Explain in Remarks) Restrictive Layer (if observed): Type: None Depth (inches): Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No_	Hydric Soil II	ndicators: (Applical	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :	
Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Some Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F2) Muck Presence (A8) (LRR P, T) Depleted Dark Surface (F6) Tom Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Depleted Below Cast Prairie Redox (A16) (outside MLRA 150A, 150B) Reduced Vertic (F18) (outside MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Redox Depressions (F8) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 143B, 153D) Other (Explain in Remarks) Remarks: Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No	Histosol ((A1)		Thin Dark Sเ	ırface (S	9) (LRR	S, T, U)	1 cm M	uck (A9) (LRR O)	
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F2) Sc m Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Sc m Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Coast Prairie Redox (A12) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) At Surface (F13) (LRR P, T, U) Sandy Redox (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 138, 152A in FL, 154) Redox Derressions (F8) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Other (Explain in Remarks) Redox Cerball Present? (MLRA 153B, 153D) Other (Explain in Remarks) Redox Cerball Present? Redox Cerball Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface or price Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Remarks:	Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)	
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F2) Sc m Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Sc m Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Coast Prairie Redox (A12) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) At Surface (F13) (LRR P, T, U) Sandy Redox (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 138, 152A in FL, 154) Redox Derressions (F8) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Other (Explain in Remarks) Redox Cerball Present? (MLRA 153B, 153D) Other (Explain in Remarks) Redox Cerball Present? Redox Cerball Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface or price Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Remarks:	Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie Redox (A16)	
Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F2) 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 Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) Anomalous Bright Floodplain Soils (F20) Mark (F10) (LRR U) Depleted Delow Dark Surface (A12) Depleted Delow Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Dark Surface (S5) Reduced Vertic (F18) (outside MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 153B) Reduced Vertic (F18) (outside MLRA 150B) Piedmont Matrix (T21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) Sandy Gleyed Matrix (S4) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Depth (inches): Remarks:	— Hvdroger	Sulfide (A4)					RR O)			
Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) S cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) Depleted Dark Surface (F6) Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) Mur Presence (A8) (LRR P, T) Redox Depressions (F8) Marl (F10) (LRR U) Thick Dark Surface (A11) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) X Stripped Matrix (S6) Dark Surface (S8) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 150A) (outside MLRA 150B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 150B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 150B) Red Parent Material (F21) Very Shallow Dark Surface (F12) (LRR O, P, T) Barrier Islands Low Chroma Matrix (TS7) Mur A 153B, 152A in FL, 154) Other (Explain in Remarks) Type: None Depth (inches): Remarks: Depleted Dark Surface (F6) Mark Surface (F7) (MLRA 138, 152A in FL, 154) Nomalous Bright Floodplain Soils (F20) (MLRA 138, 152A in FL, 154) Hydric Soil Present? Yes X No Remarks:				 ·	•	· , ·	,	•	·	
5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) Sandy Redox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) X Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No			T II)							
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) 2 copleted 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) Delta Ochric (F17) (MLRA 151) Sandy Redox (S5) X Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 138, 152A in FL, 154) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Other (Explain in Remarks) Marl (F10) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Other (Explain in Remarks) Marl (F20) (MLRA 153B, 152A in FL, 154) Marl (F20) (MLRA 153B, 152A in FL, 154) Marl (F21) Very Shallow Dark Surface (F22) (MLRA 153B, 152A in FL, 154) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (MLRA 153B, 152A in FL, 154) Anomalous Bright Floodplain Soils (F20) (MLRA 153B, 152A in FL, 154) Wetland hydrology must be present, unless disturbed or problematic. Marl (F20) Hydric Soil Present? Yes X No Remarks:		* * * * * * * * * * * * * * * * * * * *		 ·	` '			•	, ,	
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks) X Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, (MLRA 138, 152A in FL, 154) unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No Remarks:						` '				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 151A) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) (MLRA 149A, 153C, 153D) Anomalous Bright Floodplain Soils (F20) Wetl Shallow Dark Surface (F22) Wetl Shallow Dark Surfa		. ,								
Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) X Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Restrictive Layer (if observed): Type: None Depth (inches): Depth (inches): Depth (inches): Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Other (Explain in Remarks) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No			(0.44)			(ГО)		•		
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Goutside MLRA 138, 152A in FL, 154) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks) X Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) 3Indicators of hydrophytic vegetation and Wetland hydrology must be present, (MLRA 138, 152A in FL, 154) unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No Remarks:			(A11)			4) (14) 5			, ,	
Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Sandy Gleyed Matrix (S4) Sandy Redox (S5) X Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Restrictive Layer (if observed): Type: None Depth (inches): Delta Ochric (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D) Other (Explain in Remarks) Other (Explain in Remarks) (MLRA 149A) Anomalous Bright Floodplain Soils (F20) (MLRA 149A) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No Remarks:		` ,			-					
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 151) Other (Explain in Remarks) X Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Restrictive Layer (if observed): Type: None Depth (inches): Remarks: Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No										
Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Floodplain Soils (F20) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Depth (inches): Remarks: Remarks:			RR O, S)							
X Stripped Matrix (S6)										
Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Depth (inches): Remarks: Anomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No									Explain in Remarks)	
Polyvalue Below Surface (S8) (LRR S, T, U) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Depth (inches): Remarks: (MLRA 149A, 153C, 153D) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No	X Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)		
(LRR S, T, U) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Depth (inches): Remarks: Very Shallow Dark Surface (F22) wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No	Dark Surf	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright FI	oodplain	Soils (F2	.0)		
(MLRA 138, 152A in FL, 154) unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No Remarks:		` ')					³ Indicat	ors of hydrophytic vegetation and	
Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes X No Remarks:	(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetla	and hydrology must be present,	
Type: None Depth (inches): Hydric Soil Present? Yes X No Remarks:				(MLRA 13	8, 152A	in FL, 1	54)	unles	ss disturbed or problematic.	
Depth (inches): Hydric Soil Present? Yes X No Remarks:		. ,								
Remarks:	_							Hydric Soil Prese	ent? Yes X No	
								,	<u> </u>	
Area within the piec is seaded and fallowed. No evidence of recent soil alteriation.		e nlot is hedded and	furrowed	No evidence of rea	ent soil	l alteratio	n			
	Alea Willin III	le plot is bedded alld	iuiioweu.	No evidence of rec	Jent Son	alteratio	11.			



W3_WD2



Project/Site: Trail Ridge South	City/County	: Bradford	Sampling Date: 11/28/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W3_UD2
Investigator(s): B. McGee, N. Adams	Section, Townsh	nip, Range: 12, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (concav	ve, convex, none): none	Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 21.11"	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0 to 2 perce		NWI classifica	
	•		
Are climatic / hydrologic conditions on the site	••		explain in Remarks.)
Are Vegetation, Soil, or Hydrold		e "Normal Circumstances" present	
Are Vegetation, Soil, or Hydrolo	ogynaturally problematic? (If	needed, explain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling po	int locations, transects, im	nportant features, etc.
, , , ,	Yes X No Is the Samp Yes No X within a We		No. V
•	Yes X No	audiu! Tes	No X
Remarks:	163 <u>X</u> 140		
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the set the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ing the prior week. The site has been hist asonal high water table resuting in wetlan ve been constructed perpendicular to the	torically converted to pine plantation divegetation within the furrow, how a slope per silviculture BMPs. Since	on and has beds/furrows. In vever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Crac	· · · ·
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres on Living Roo	ots (C3) Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	tion (D2)
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	(D3)
Inundation Visible on Aerial Imagery (B7)))	X FAC-Neutral Test	(D5)
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ections), if available:	
Not available			
Remarks: The natural landform has been converted for	eilvicultura practicae. Sphagnum moss lo	ocated at the hottom of the furrow	It is expected that during the
wet season the water table is present within t		cated at the bottom of the furiow.	it is expected that during the
·	·		

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W3 UD2 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 10m x 10m) % Cover Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 66.7% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover x 1 = 50% of total cover: **FACW** species 20% of total cover: x2 =Sapling/Shrub Stratum (Plot size: __10m x 10m _) x 3 = FAC species 12 30 x 4 = 1. Serenoa repens 30 **FACU FACU** species 120 Yes 2. Ilex glabra 50 Yes **FACW** UPL species 2 x 5 = 10 1 100 (A) (B) 3. Vaccinium corymbosum No **FACW** Column Totals: 267 4. Prevalence Index = B/A = 2 67 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Ilex glabra **FACW** 10 Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Lachnanthes caroliana 2 No OBL 2 3. Dichanthelium dichotomum No FAC **Definitions of Four Vegetation Strata:** Cladonia sp. 2 UPI 4 Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. Woodwardia virginica 1 No OBL height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 17 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 9 Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W3_UD2

		o the dep				ator or co	onfirm the absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Ren	narks
0-6.5	10YR 3/1	40	Color (Illoist)		Туре				
0-0.5	10113/1	40					Sandy	Remaining soil ui	nmasked 10YR 6/1
6.5-21	10YR 4/1	90	10YR 5/1	10		M	Sandy	Depletions increase	e through soil profile
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	 IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil II	ndicators: (Applical	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hy	dric Soils ³ :
Histosol ((A1)		Thin Dark Su	ırface (S	69) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)	
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)	
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie Redox (A16)	
Hydroger	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)	
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)	
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outs	ide MLRA 150A, 1	50B)
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils	(F19) (LRR P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bright Floodpla	in Soils (F20)
1 cm Mud	ck (A9) (LRR P, T)	Redox Depre	essions	(F8)		(MLR	RA 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	rent Material (F21)	
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR /	A 151)	Very SI	hallow Dark Surface	(F22)
Coast Pra	airie Redox (A16) (M	LRA 150A	\) Iron-Mangan	ese Mas	sses (F1	2) (LRR (D, P, T) (outs	ide MLRA 138, 152	:A in FL, 154)
Sandy Mi	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ce (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chrom	a Matrix (TS7)
Sandy GI	eyed Matrix (S4)		Delta Ochric					RA 153B, 153D)	
Sandy Re	edox (S5)		Reduced Ver	tic (F18	B) (MLRA	150A, 1	50B) Other (Explain in Remarks))
	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)		
	face (S7) (LRR P, S,		Anomalous E	-					
	e Below Surface (S8)		(MLRA 149A, 153C, 153D)					tors of hydrophytic v	•
(LRR S	S, T, U)		Very Shallow					and hydrology must	-
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or prob	lematic.
	ayer (if observed):								
· · · -	None								
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No_X_
Remarks:	o platic baddad and	furration	No ovidence of re-	ant anil	laltaratio	n			
Area within th	e plot is bedded and	iurrowea.	no evidence of rec	ent son	alteratio	11.			



W3_UD2



Applicant/Owner	Project/Site: Trail Ridge South	City/County:	Bradford Sampling Date: 11/28/18
Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): none Subregion (LRR or MLRA): LRR T, MLRA 153A Lat: 29° 54' 15.18" Long: -82° 30' 90.84" No	Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W3_WD3
Subregion (LRR or MLRA): LRR T, MLRA 153A Lat: 29° 54' 15:18° Long- 82° 03' 09.84° Datum: WGS 84 Soil Map Unit Name: Pamilico and Croatan mucks Reference of the common of the site typical for this time of year? Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No test within a Wetland? Yes No	Investigator(s): B. McGee, N. Adams	Section, Township	o, Range: 12, -7, 22
Subragion (LRR or MLRA):RRT T, MLRA 153A	Landform (hillside, terrace, etc.): terrace	Local relief (concave	, convex, none): none Slope (%): 0-2
Soil Map Unit Name: Pamilico and Crostan mucks Are climato / hydrologic conditions on the site typical for this time of year? Are Vegetation	Subregion (LRR or MLRA): LRR T, MLRA 15	•	
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrology Indicators for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 0.85 inches a for a since a present of the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Bods and furrows in some areas have been constructed prependicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators: Surface Water (A1) Surface Water (· · · · · · · · · · · · · · · · · · ·	
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	Are climatic / hydrologic conditions on the site	typical for this time of year?	es X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?	Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are '	"Normal Circumstances" present? Yes X No
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No within a Wetland? Yes X No within		· · · · · · · · · · · · · · · · · · ·	
Hydric Soil Present? Yes X No Within a Wetland? Yes X No Wetland Hydrology Present? Yes X No Within a Wetland? Yes X No Within a Wetland? Yes X No	<u> </u>	<u> </u>	
Hydric Soil Present? Wetland Hydrology Present? Yes X No within a Wetland? Wetland? Wetland Hydrology Present? Wetland Hydrology Indicators in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Saturation (A3) Hydrogen Sulfide Odor (C1) Saturation (A3) Hydrogen Sulfide Odor (C1) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Recent Iron Reduction in Tilled Soils (C8) Difft Deposits (B3) Algal Mat or Crust (B4) Thin Muck Surface (C7) Algal Mat or Crust (B4) Thin Muck Surface (C7) Water Sabie on Application (Pappine Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Water Table Orden Applications of the furrow. Water stained leaves located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. Water stained leaves located at the bottow of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Hydrophytic Vegetation Present?	Yes X No Is the Sampl	ed Area
Remarks: Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 0.65 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Mand Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B1) Prist Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquatiand (D3) Algal Mat or Crust (B4) Thin Muck Surface (C7) Water Table (Pesent? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. Sphagnum moso located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the			
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 0.65 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. ### WETCH COMPS ### WITCH CONTINUES #		Yes X No	
Inches of rainfall was recorded at the site during the prior week. The site has been historically converted to price plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sprasely Vegetated Concave Surface (B8) High Water Table (A2) Mant Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Water-Stained Leaves (B9) Variation Again Manual Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No No Depth (inches): Surface Water Present? Yes No Water Table (Present? Yes No Depth (inches): Water-Stained Leaves (B9) Water Manual Imagery (F) Water Saturation Present? Yes No Water Manual Imagery (F) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Remarks:		
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) X FAC-Neutral Test (D5) X Water-Stained Leaves (B9) X Sphagnum Moss (D8) (LRR T,U) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present?	inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha	ring the prior week. The site has been histor asonal high water table resuting in wetland ave been constructed perpendicular to the s	rically converted to pine plantation and has beds/furrows. In vegetation within the furrow, however upland plants remain or lope per silviculture BMPs. Since furrows are constructed
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Pligh Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Vother (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No ax Depth (inches): Wetland Hydrology Present? Yes No ax Depth (inches): Field Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	HYDROLOGY		
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Pligh Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Iron Deposits (B5) Vother (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No ax Depth (inches): Wetland Hydrology Present? Yes No ax Depth (inches): Field Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Surface Water (A1)		ed; check all that apply)	
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Tincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil		* * * * *	
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) X FAC-Neutral Test (D5) X Water-Stained Leaves (B9) X Sphagnum Moss (D8) (LRR T,U) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	\ 		
Sediment Deposits (B2)	Saturation (A3)		
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X No X Depth (inches): Saturation Present? Yes No X Depth (inches): Satu	Water Marks (B1)	Oxidized Rhizospheres on Living Roots	s (C3) Dry-Season Water Table (C2)
Algal Mat or Crust (B4)	Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) X Sphagnum Moss (D8) (LRR T,U) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (0	C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) X Sphagnum Moss (D8) (LRR T,U) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Unicludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
X Water-Stained Leaves (B9) X Sphagnum Moss (D8) (LRR T,U)	Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Field Observations: Surface Water Present? Yes	Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	X Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Field Observations:		
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Surface Water Present? Yes	No X Depth (inches):	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Water Table Present? Yes	No X Depth (inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No
Not available Remarks: The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	(includes capillary fringe)		
The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	(3 3 7	nitoring well, aerial photos, previous inspect	tions), if available:
The natural landform has been converted for silviculture practices. Sphagnum moss located at the top, bottom, and side of the furrow. Water stained leaves located at the bottow of the furrow. It is expected that during the wet season the water table is present within the top 12 inches of the soil	Demodra		
	The natural landform has been converted for leaves located at the bottow of the furrow. It		1.

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W3 WD3 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 5 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 11 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 10 x 3 = FAC species 0 x 4 = 1. llex myrtifolia **FACW** FACU species 0 No x 5 = 2. Lyonia lucida 5 Yes **FACW** UPL species 0 0 37 (A) (B) 3. llex glabra 5 Yes **FACW** Column Totals: 73 4. Morella cerifera 10 Yes FAC Prevalence Index = B/A = 1 97 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. 21 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) Lachnanthes caroliana 1. OBL Yes ¹Indicators of hydric soil and wetland hydrology must be 2. Osmundastrum cinnamomeum 1 No **FACW** present, unless disturbed or problematic. 3. Osmunda spectabilis 1 No OBL **Definitions of Four Vegetation Strata:** 2 4 Lyonia lucida **FACW** Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of **FACW** 5. llex glabra 2 No

Yes

OBL

5

16 =Total Cover 20% of total cover: 50% of total cover: 8 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. =Total Cover 50% of total cover: 20% of total cover: height.

Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody Vine - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes X

No

Remarks: (If observed, list morphological adaptations below.)

Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines were identified within the plot.

6.

7.

8.

9. 10. Woodwardia virginica

SOIL Sampling Point: W3_WD3

Profile Descr	iption: (Describe t	o the dep	th needed to docu	ment th	ne indica	tor or co	onfirm the absence	of indicators.)	
Depth	Matrix			Featur					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 2/1	75					Sandy	Remaining soil unmasked 10YR 6/1	
3-5	10YR 4/1	60					Sandy	Remaining soil unmasked 10YR 5/1	
5-11	10YR 5/1	90	10YR 6/1	10	D	M	Sandy		
11-15	10YR 7/1	80	10YR 5/8	5	C	M	Sandy	Remaining soil unmasked 10YR 6/1	
15-20	10YR 6/4	100							
¹ Type: C=Cor	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masl	ced Sand	l Grains.		PL=Pore Lining, M=Matrix.	
Hydric Soil Ir	idicators: (Applical	ble to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :	
Histosol (A1)		Thin Dark Su	rface (S	9) (LRR	S, T, U)	1 cm M	Muck (A9) (LRR O)	
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm M	Muck (A10) (LRR S)	
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie Redox (A16)	
Hydrogen	Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(outs	side MLRA 150A)	
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduce	ed Vertic (F18)	
Organic B	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(outs	side MLRA 150A, 150B)	
5 cm Muc	ky Mineral (A7) (LR	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)	
Muck Pre	sence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	llous Bright Floodplain Soils (F20)	
1 cm Muc	k (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLRA 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Pa	arent Material (F21)	
	k Surface (A12)	, ,	Depleted Och		1) (MLR	A 151)	Very S	hallow Dark Surface (F22)	
Coast Pra	nirie Redox (A16) (M	LRA 150A		-			D, P, T) (outs	side MLRA 138, 152A in FL, 154)	
	ıcky Mineral (S1) (L l		Umbric Surfa		•	, ,	, , ,	Islands Low Chroma Matrix (TS7)	
	eyed Matrix (S4)	-,-,	Delta Ochric				(MLRA 153B, 153D)		
Sandy Re			Reduced Ver	. , .		•		Explain in Remarks)	
X Stripped I			Piedmont Flo	•			· — `	, ,	
	ace (S7) (LRR P, S ,	T. U)	Anomalous E						
	Below Surface (S8)		(MLRA 149	-		-		tors of hydrophytic vegetation and	
(LRR S		•	Very Shallow					and hydrology must be present,	
(2.0.0	, ., .,		(MLRA 138					ss disturbed or problematic.	
Restrictive La	ayer (if observed):								
· -	lone								
Depth (inc	ches):						Hydric Soil Prese	ent? Yes <u>X</u> No	
Remarks:									
Area within the	e plot is bedded and	furrowed.	No evidence of re	cent soi	l alteration	n.			



W3_WD3



Project/Site: Trail Ridge South	City/County	Bradford	Sampling Date: 11/28/18					
Applicant/Owner: The Chemours Compa	ny FC, LLC	State: FL	Sampling Point: W3_UD3					
Investigator(s): B. McGee, N. Adams	Section, Townsh	nip, Range: <u>12, -7, 22</u>						
Landform (hillside, terrace, etc.): terrace	Local relief (concar	ve, convex, none): none	Slope (%):0					
Subregion (LRR or MLRA): LRR T, MLRA 15	53A Lat: 29° 54' 14.91"	Long: -82° 03' 08.80"	Datum: WGS 84					
Soil Map Unit Name: Pamlico and Croatan m		NWI classifica						
Are climatic / hydrologic conditions on the site			explain in Remarks.)					
Are Vegetation, Soil, or Hydrol		e "Normal Circumstances" present						
Are Vegetation, Soil, or Hydrol		needed, explain any answers in Re						
SUMMARY OF FINDINGS – Attach		•						
Hydrophytic Vegetation Present?	Yes X No Is the Sam	nled Area						
1	Yes No X within a We		No X					
I	Yes X No							
Remarks: Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 0.65 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)					
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Crac	· · · · · ·					
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetate	ed Concave Surface (B8)					
High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)								
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines ((B16)					
Water Marks (B1)	Oxidized Rhizospheres on Living Ro	ots (C3) Dry-Season Wate	r Table (C2)					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)					
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Visible	on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	tion (D2)					
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard						
Inundation Visible on Aerial Imagery (B7	")	X FAC-Neutral Test	, ,					
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)					
Field Observations:								
Surface Water Present? Yes	No X Depth (inches):							
Water Table Present? Yes	No X Depth (inches):							
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes <u>X</u> No					
(includes capillary fringe)	- italian II italian italian	- time - \ 't 'l - l - l - l - l						
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previous inspe	ctions), if available:						
Not available								
Remarks:		-						
The natural landform has been converted for		cated at the bottom of the furrow.	It is expected that during the					
wet season the water table is present within	the top 12 inches of the soil profile.							

 VEGETATION (Four Strata) – Use scientific names of plants.
 Sampling Point: W3_UD3

 Absolute
 Dominant
 Indicator

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
Persea palustris	2	No	FACW	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 4 (A)
3				Total Number of Dominant
4				Species Across All Strata: 5 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 80.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	2	=Total Cover		OBL species 9 x 1 = 9
50% of total cover: 1	20%	of total cover:	1	FACW species 19 x 2 = 38
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 13 x 3 = 39
1. Morella cerifera	5	Yes	FAC	FACU species 6 x 4 = 24
2. Ilex glabra	15	Yes	FACW	UPL species 0 x 5 = 0
3. Serenoa repens	5	Yes	FACU	Column Totals: 47 (A) 110 (B)
4.		100	17.00	Prevalence Index = B/A = 2.34
5.				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
7.				-
8				3 - Prevalence Index is ≤3.0¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:1	3 20%	of total cover:	5	
Herb Stratum (Plot size: 10m x 10m)				
Dichanthelium dichotomum	3	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
Morella cerifera	2	No	FAC	present, unless disturbed or problematic.
3. Woodwardia virginica	1	No	OBL	Definitions of Four Vegetation Strata:
4. Pteridium aquilinum	1	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Lachnanthes caroliana	8	Yes	OBL	more in diameter at breast height (DBH), regardless of
6. Pinus elliottii	1	No	FACW	height.
7. Andropogon virginicus	1	No	FAC	October 10 March and and a support
8. Vaccinium corymbosum	1	No	FACW	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				than 6 m. BBH and greater than 6.26 it (1 m) tail.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.				of size, and woody plants less than 3.26 it tall.
	18	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 9		of total cover:	4	height.
Woody Vine Stratum (Plot size: 10m x 10m)		or total cover.		
1. Vitis rotundifolia	2	No	FAC	
2.			170	
2				
4				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:1	20%	of total cover:	1	Present? Yes X No
Remarks: (If observed, list morphological adaptation	,			
Planted Pinus elliottii makes up the canopy with 70%	cover. Not i	ncluded in calc	ulations bec	ause it was planted.

SOIL Sampling Point: W3_UD3

	ription: (Describe t	o the dept				ator or co	onfirm the absence	of indicators.)	
Depth	Matrix			(Feature		. 2		_	
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Rem	
0-3	10YR 2/1						Sandy	Remaining soil un	
3-7	10YR 5/1	50					Sandy	Remaining soil un	masked 10YR 6/1
7-12	10YR 6/1	90	10YR 7/1	10	<u>D</u>	M	Sandy		
12-14	10YR 4/2	95					Sandy	Remaining soil un	masked 10YR 6/1
14-20	10YR 4/1						Sandy	Remaining soil un	masked 10YR 6/1
	ncentration, D=Depl					d Grains.		PL=Pore Lining, M=N	
-	ndicators: (Applical	ble to all L						for Problematic Hy	dric Soils³:
Histosol			Thin Dark Su					luck (A9) (LRR O)	
	ipedon (A2)		Barrier Island			12)		luck (A10) (LRR S)	
Black His			(MLRA 15		•			Prairie Redox (A16)	
	n Sulfide (A4)		Loamy Muck	•	` , '	.RR O)	•	ide MLRA 150A)	
	Layers (A5)		Loamy Gleye		(F2)			ed Vertic (F18)	
	Bodies (A6) (LRR, P,		Depleted Ma	` '			`	ide MLRA 150A, 15	′
	cky Mineral (A7) (LR		Redox Dark		` '			ont Floodplain Soils (
	esence (A8) (LRR U)		Depleted Dai		` '			lous Bright Floodplai	n Soils (F20)
	ck (A9) (LRR P, T)		Redox Depre		(F8)		•	A 153B)	
	Below Dark Surface	(A11)	Marl (F10) (L					rent Material (F21)	
Thick Da	rk Surface (A12)		Depleted Ocl					nallow Dark Surface	(F22)
	airie Redox (A16) (M	,						ide MLRA 138, 152	
	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa					Islands Low Chroma	ı Matrix (TS7)
	leyed Matrix (S4)		Delta Ochric				•	A 153B, 153D)	
	edox (S5)		Reduced Ver	•			· — `	Explain in Remarks)	
	Matrix (S6)		Piedmont Flo						
	face (S7) (LRR P, S,		Anomalous E	-					
	e Below Surface (S8))	(MLRA 14					ors of hydrophytic ve	·
(LRR S	S, T, U)		Very Shallow		,	,		and hydrology must b	-
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or proble	ematic.
	.ayer (if observed):								
Type: _l Depth (in	None						Hydric Soil Prese	ent? Yes	No X
							Tryunc don't rese		<u> </u>
Remarks:	ne plot is bedded and	furrowed	No evidence of red	ent soil	alteratio	n			
7 a Ca William a	io piot io bouded und	Turrowou.	THE EVICENCE OF THE	JOIN JOIN	anorano				



W3_UD3



Project/Site: Trail Ridge South	Ci	ty/County: Bradford		Sampling Date: <u>11/29/2018</u>
Applicant/Owner: The Chemours Compar	ny FC, LLC		State: FL	Sampling Point: W3-WD4
Investigator(s): D. LeJeune, B. McGee	Section	n, Township, Range: 1	12, -7, 22	
Landform (hillside, terrace, etc.): Depression		ef (concave, convex, no		Slope (%): 0-2%
Subregion (LRR or MLRA): LRR T, MLRA 15		,	2° 03' 01.20"	Datum: WGS 84
		Long. <u>-02</u>		
Soil Map Unit Name: Pamilco and Coratan N			NWI classificat	•
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)
Are Vegetation, Soil, or Hydrol			cumstances" present?	
Are Vegetation, Soil, or Hydrol	ogynaturally problematic	? (If needed, expla	ain any answers in Re	marks.)
SUMMARY OF FINDINGS – Attach	site map showing samp	ling point location	ns, transects, im	portant features, etc.
Lludranhutia Vagatatian Dragant?	Voc. v. No. Ja	the Compled Area		
, , , ,		the Sampled Area thin a Wetland?	Yes x	No
	Yes x No	umi a Wedana:	163 <u>x</u>	
Remarks:				
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dui some areas the furrows may intercept the se the bed. Beds and furrows in some areas had cross slope, this can result in ponding of wat	ing the prior week. The site has asonal high water table resuting we been constructed perpendicu	been historically conve in wetland vegetation value to the slope per silv	erted to pine plantatio within the furrow, how	n and has beds/furrows. In ever upland plants remain on
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators ((minimum of two required)
Primary Indicators (minimum of one is requir	ed: check all that annly)	9	Surface Soil Crack	
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR L	J)	Drainage Patterns	
x Saturation (A3)	Hydrogen Sulfide Odor (C1	_	Moss Trim Lines (
Water Marks (B1)	Oxidized Rhizospheres on I	_iving Roots (C3)	Dry-Season Water	Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron ((C4)	Crayfish Burrows ((C8)
Drift Deposits (B3)	Recent Iron Reduction in Ti	_		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	x Thin Muck Surface (C7)	_	x Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remarks)	_	Shallow Aquitard (:
Inundation Visible on Aerial Imagery (B7)	_	X FAC-Neutral Test	
Water-Stained Leaves (B9)			x Sphagnum Moss (D8) (LRR 1,U)
Field Observations: Surface Water Present? Yes Water Table Present? Yes x Saturation Present? Yes x (includes capillary fringe)	No x Depth (inches): No Depth (inches): No Depth (inches):	11 Wetland Hy	ydrology Present?	Yes <u>X</u> No
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previ	ous inspections), if ava	ailable:	
Remarks: The natural landform has been converted for	silviculture practices.			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W3-WD4

Tre	ee Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.					Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3. 4.					Total Number of Dominant Species Across All Strata: 4 (B)
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
-	_		=Total Cover		OBL species 33 x 1 = 33
	50% of total cover:		of total cover:		FACW species 17 x 2 = 34
Sai	pling/Shrub Stratum (Plot size: 10m x 10m)		or total cover.		FAC species 43 x 3 = 129
1.	Morella cerifera	20	Yes	FAC	FACU species 1 x 4 = 4
2.	Acer rubrum	1	No	FAC	UPL species 0 x 5 = 0
3.	Persea palustris	2	No	FACW	Column Totals: 94 (A) 200 (B)
4.	Lyonia lucida	8	Yes	FACW	Prevalence Index = B/A = 2.13
5.	Vaccinium corymbosum	1	No	FACW	Hydrophytic Vegetation Indicators:
6.					1 - Rapid Test for Hydrophytic Vegetation
7.					X 2 - Dominance Test is >50%
8.					X 3 - Prevalence Index is ≤3.0 ¹
٥.		32	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
<u>He</u> 1. 2.	50% of total cover:1 rb Stratum (Plot size:10m x 10m) Andropogon virginicus Cladium jamaicense	6 20% 20 15	Yes Yes	FAC OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Scirpus cyperinus	8	No	OBL	Definitions of Four Vegetation Strata:
4.	Xyris elliottii	4	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.	Woodwardia virginica	3	No	OBL	more in diameter at breast height (DBH), regardless of
6.	Osmundastrum cinnamomeum	2	No	FACW	height.
7.	Osmunda spectabilis	2	No	OBL	
8.	Lachnanthes caroliniana	1	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.	Hypericum gentianoides	1	No	FACU	than 3 iii. DDH and greater than 3.20 it (1 iii) taii.
10.	Juncus scirpoides	4	No	FACW	
	Solidago fistulosa	2	No	FAC	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.					of size, and woody plants less than 5.20 ft tall.
			=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
		1 20%	of total cover:	13	height.
	oody Vine Stratum (Plot size: 10m x 10m)				
1.					
2.					
3.					
4.					
5.					Hydrophytic
			=Total Cover		Vegetation
	50% of total cover:	20%	of total cover:		Present? Yes X No No
D۵	marks: (If observed, list morphological adaptation	ac holow \			•

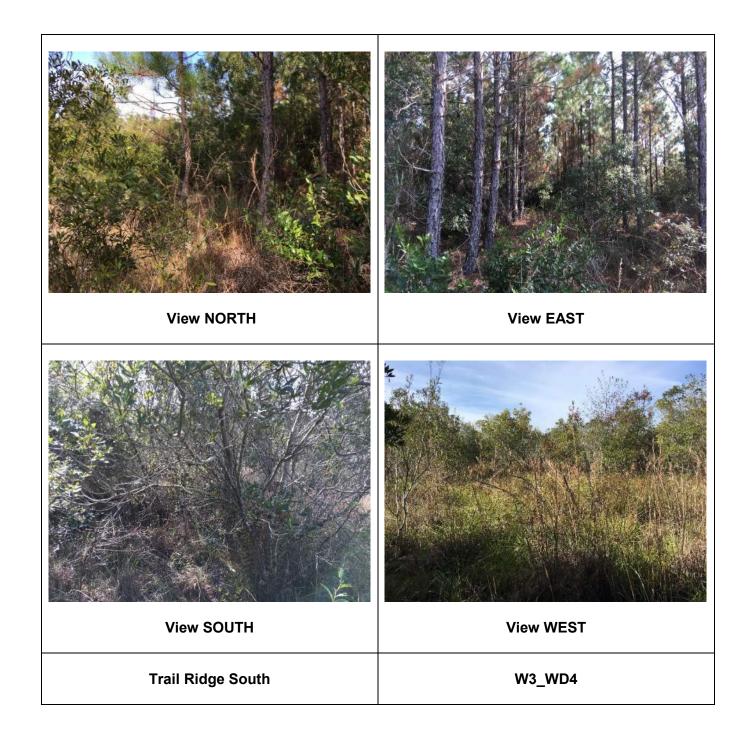
Remarks: (If observed, list morphological adaptations below.)
Planted Pinu elliottii makes up the canopy with 30% cover. Not included in calcualtions because it was planted. No woody vines observed in the plot.

SOIL Sampling Point: W3-WD4

Profile Descr	ription: (Describe t	o the dep	th needed to docu	ıment t	he indica	ator or co	onfirm the absence	of indicators.)		
Depth	Matrix			∢ Featur						
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks		
0-2	10YR 2/1	100					Muck			
2-6	10YR 2/1	100					Mucky Sand			
6-8	10YR 2/1	95					Sandy	Remaining soil unmasked 10YR 6/1		
8-17	10YR 3/1	50	10YR 3/2	50			Sandy			
17-22	10YR 3/2	70	10YR 2/1	30			Sandy			
	ncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix.		
Hydric Soil Ir	ndicators: (Applicat	ble to all l	LRRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol (A1)		x Thin Dark Su				1 cm M	Muck (A9) (LRR O)		
	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	Muck (A10) (LRR S)		
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)		
Hydrogen	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(out	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)		
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(out	side MLRA 150A, 150B)		
X 5 cm Muc	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodplain Soils (F19) (LRR P, T)		
Muck Pre	sence (A8) (LRR U)		Depleted Dar	rk Surfa	ce (F7)		Anoma	alous Bright Floodplain Soils (F20)		
X 1 cm Muc	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLI	RA 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red P	Red Parent Material (F21)		
Thick Dar	k Surface (A12)		Depleted Ocl	hric (F1	1) (MLR	A 151)	Very S	Shallow Dark Surface (F22)		
Coast Pra	airie Redox (A16) (M	LRA 150A	(A) Iron-Mangan	ese Ma	sses (F1	2) (LRR (O, P, T) (out	side MLRA 138, 152A in FL, 154)		
Sandy Mu	ucky Mineral (S1) (Li	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrie	r Islands Low Chroma Matrix (TS7)		
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	51)	(MLI	RA 153B, 153D)		
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 1	Other	(Explain in Remarks)		
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)			
x Dark Surf	ace (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	0)			
Polyvalue	Below Surface (S8))	(MLRA 149	9A, 153	C, 153D))	³ Indica	itors of hydrophytic vegetation and		
(LRR S	s, T, U)		Very Shallow	Dark S	Surface (F	- 22)	wetl	and hydrology must be present,		
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ess disturbed or problematic.		
	ayer (if observed):									
	lone									
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No		
Remarks:	a platia baddad and	furraced	No ovidopos of roc	ant anil	altaration					
Area within th	e plot is bedded and	iurrowea.	ino evidence oi rec	cent soil	alteratio	n.				



W3_WD4



Project/Site: Trail Ridge South	City/County:	Bradford	Sampling Date: 11/29/18			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W3-UD4			
Investigator(s): D.LeJeune, B. McGee	Section, Townshi	ip, Range: 12, -7, 22				
Landform (hillside, terrace, etc.): Terrace	Local relief (concave	e, convex, none): None	Slope (%): 0-2%			
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 00.46"	Datum: WGS84			
Soil Map Unit Name: Leon Sand 0-2 Percent	· · · · · · · · · · · · · · · · · · ·	NWI classificat				
Are climatic / hydrologic conditions on the site			explain in Remarks.)			
Are Vegetation, Soil, or Hydrolo	,,	"Normal Circumstances" present				
Are Vegetation, Soil, or Hydrole		needed, explain any answers in Re				
SUMMARY OF FINDINGS – Attach			•			
Hydrophytic Vegetation Present?	Yes x No Is the Samp	led Area				
, , , ,	Yes No x within a Wer		No x			
li	Yes x No					
Remarks:	many manufacture Naviarahan and ana 2.46 in		10 manths An average 0.05			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur			_			
some areas the furrows may intercept the se						
the bed. Beds and furrows in some areas ha	ive been constructed perpendicular to the	slope per silviculture BMPs. Since				
cross slope, this can result in ponding of water	er within the furrows during abnormally wet	periods.				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Cracl	· · · · · · ·			
Surface Water (A1)			, ,			
High Water Table (A2)	Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Mad Denseite (B15) (I BB II) Projects Patterns (B10)					
Saturation (A3)	Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Maca Trim Lines (B10)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Oviding Brigger Program (C2)					
[Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Dry-Season Water Table (C2)					
Sediment Deposits (B2) Drift Deposits (B3)	Presence of Reduced Iron (C4) Crayfish Burrows (C8) Crayfish Burrows (C8)					
· · · · · · · · · · · · · · · · · · ·	Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) This Muck Surface (C7) Comparable Resistan (D2)					
Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) x Other (Explain in Remarks) Shallow Aquitard (D3)						
Iron Deposits (B5)	x Other (Explain in Remarks)					
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) X FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T,U)						
		Spriagrium woss	(DO) (ERR 1,0)			
Field Observations: Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes X No			
(includes capillary fringe)	No X Deptil (iliches).	Wettand Trydrology Fresent:	165 <u>X</u> 110			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ctions) if available:				
Not available	morning won, dental priotos, proviodo mopoc	Alono), il avallable.				
Remarks:						
The natural landform has been converted for	silviculture practices. It is expected that du	uring the wet season the water tab	ole is present with in the top			
12 inches of the soil profile.						

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W3-UD4 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 10m x 10m) % Cover Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species ____ x 1 = =Total Cover 50% of total cover: **FACW** species 20% of total cover: x2 =Sapling/Shrub Stratum (Plot size: 10m x 10m) 13 x 3 = FAC species 5 x 4 = 1. Persea palustris **FACW FACU** species 20 No 2. Morella cerifera 10 Yes FAC UPL species 0 x 5 = 0 2 (B) 3. llex myrtifolia No **FACW** Column Totals: 87 (A) 154 4. llex glabra 8 Yes **FACW** Prevalence Index = B/A = 1.77 5. 2 **FACW Hydrophytic Vegetation Indicators:** Vaccinium corymbosum No 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 26 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Pteridium aquilinum **FACU** 5 No ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Woodwardia virginica 40 Yes OBL 10 3. Osmundastrum cinnamomeum No **FACW Definitions of Four Vegetation Strata:** 4 3 Woodwardia areolata OBL Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5. more in diameter at breast height (DBH), regardless of height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 58 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 29 Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W3-UD4

Depth Matrix Redox Features (inches) Color (resist) 0 Color (resist) 2 Touture Percentic			
(inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks			
0-3 10YR 3/1 60 Sandy Remaining soil unmasked	0YR 5/1		
3-7 10YR 3/1 40 10YR 4/1 60 Sandy			
7-22 10YR 4/1 50 10YR 5/1 50 D M Sandy			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	3		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils	5 °:		
Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O)			
Histic Epipedon (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR S)			
Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16)			
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) (outside MLRA 150A)			
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Control Reduced Vertic (F18)			
Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) S cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) (outside MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (LR	D D T\		
	Piedmont Floodplain Soils (F19) (LRR P, T)		
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B)	Anomalous Bright Floodplain Soils (F20)		
	Red Parent Material (F21)		
	Very Shallow Dark Surface (F22)		
l 			
	Barrier Islands Low Chroma Matrix (TS7)		
	(MLRA 153B, 153D)		
Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)			
Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A)			
Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20)			
Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) 3Indicators of hydrophytic vegetation	and		
(LRR S, T, U) Very Shallow Dark Surface (F22) wetland hydrology must be presen			
(MLRA 138, 152A in FL, 154) unless disturbed or problematic.			
Restrictive Layer (if observed):			
Type: None			
Depth (inches): Hydric Soil Present? Yes No	X		
Remarks:			
Area witin the plot is bedded and furrowed. No evidence of recent soil alteration.			



W3_UD4



Project/Site: Trail Ridge South	City/County	y: Bradford	Sampling Date: 11/28/18			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W3_WD5			
Investigator(s): B. McGee, N. Adams	Section, Towns	hip, Range: <u>12, -7, 22</u>				
Landform (hillside, terrace, etc.): terrace	Local relief (conca	ve, convex, none): none	Slope (%): 0-2			
Subregion (LRR or MLRA): LRR T, MLRA 15	,	Long: -82° 03' 06.53" AR39	Datum: WGS 84			
Soil Map Unit Name: Leon sand, 0 to 2 perce		NWI classifica				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no, e	explain in Remarks.)			
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed? Ar	re "Normal Circumstances" present				
Are Vegetation, Soil, or Hydrole		needed, explain any answers in Re				
SUMMARY OF FINDINGS – Attach						
Hydrophytic Vegetation Present?	Yes X No Is the Sam	nled Area				
, , , ,	Yes X No within a W		No			
'	Yes X No					
Remarks:						
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 0.65 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	<u>.</u>			
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	s (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)			
Water Marks (B1)	Oxidized Rhizospheres on Living Ro	oots (C3) Dry-Season Wate	er Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4) Crayfish Burrows (C8)					
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Thin Muck Surface (C7) Geomorphic Position (D2)					
Iron Deposits (B5)	Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test	` '			
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)			
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes <u>X</u> No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspe	ections), if available:				
Remarks: The natural landform has been converted for 12 inches of the soil profile. Sphagnum moss			ole is present with in the top			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W3_WD5

<u>Tree Stratum</u> (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 4 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.		•		Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 31 x 1 = 31
50% of total cover:		of total cover:		FACW species 18 x 2 = 36
Sapling/Shrub Stratum (Plot size: 10m x 10m)		o. 101a. 0010.1		FAC species 18 x 3 = 54
1. Morella cerifera	8	Yes	FAC	FACU species 0 x 4 = 0
2. Ilex glabra	8	Yes	FACW	UPL species 1 x 5 = 5
3.				Column Totals: 68 (A) 126 (B)
4.				Prevalence Index = B/A = 1.85
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.		-		X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0¹
o	16	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
500/ of total agreem 6			4	—— Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 8	20%	of total cover:	4	
Herb Stratum (Plot size: 10m x 10m)	0	NI.	ODI	
Woodwardia virginica Sairmus auraniaus	8	No	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Scirpus cyperinus	20	Yes	OBL	present, unless disturbed or problematic.
3. Lachnanthes caroliniana		Yes	FACW	Definitions of Four Vegetation Strata:
4. Andropogon virginicus	5	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Dichanthelium dichotomum	5	<u>No</u>	FAC	more in diameter at breast height (DBH), regardless of height.
6. Cladonia sp.	1	<u>No</u>	UPL	1.0.9
7. Xyris elliottii	1	<u>No</u>	OBL	Sapling/Shrub – Woody plants, excluding vines, less
8. Hypericum tetrapetalum	2	No	OBL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	52	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:2	6 20%	of total cover:	11	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1				
2.				
3.	<u> </u>			
4.				
5.		•		I.,
		=Total Cover		Hydrophytic
50% of total cover:		of total cover:		Vegetation Present? Yes X No
				<u> </u>

Remarks: (If observed, list morphological adaptations below.)

Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines identified within the plot.

SOIL Sampling Point: W3_WD5

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%		x Featur %		Loc ²	Toyturo	Pomorko		
(inches)	Color (moist)		Color (moist)		Type ¹	LOC	Texture	Remarks		
1-4	10YR 2/1	60					Sandy	Remaining soil unmasked 10YR 6/1		
4-17	10YR 3/1	90	10YR 5/1	10	<u>D</u>	<u>M</u>	Sandy	Stripping increases to 25% at 12 inches		
17-22	10YR 3/1	100					Sandy			
¹ Type: C=Co	ncentration, D=Deple		:Reduced Matrix M		ked Sand		² Location:	PL=Pore Lining, M=Matrix.		
	ndicators: (Applicat					Grains.		for Problematic Hydric Soils ³ :		
Histosol (oic to aii L	Thin Dark Su			S T U)		luck (A9) (LRR O)		
	pedon (A2)		Barrier Island					luck (A10) (LRR S)		
Black His			(MLRA 15			,		Prairie Redox (A16)		
	Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)		
	Layers (A5)		Loamy Gleye	•	· , ·		•	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	T. U)	Depleted Ma					side MLRA 150A, 150B)		
	cky Mineral (A7) (LR I		Redox Dark	, ,			•	ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)	, , -,	Depleted Da		` '			Anomalous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre				(MLRA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L		` '		Red Parent Material (F21)			
	rk Surface (A12)	,	Depleted Oc		1) (MLR	A 151)	Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A					O, P, T) (outside MLRA 138, 152A in FL, 154)			
Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U)				Islands Low Chroma Matrix (TS7)						
Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151)			1)	(MLRA 153B, 153D)						
Sandy Re	Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B)			Other (Explain in Remarks)						
X Stripped I	Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLR	A 149A)			
Dark Surf	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	(0)			
Polyvalue	Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and			
(LRR S	s, T, U)		Very Shallow	/ Dark S	Surface (F	ce (F22) wetland hydrology must be present		and hydrology must be present,		
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.			
	ayer (if observed):									
· · -	None						Hydric Soil Prese	ont? Yes Y No Y		
Depth (in							nyunc 3011 Prese	ent? Yes X No X		
Remarks:	e plot is bedded and	furrowed	No ovidence of rea	cont coil	altoratio	n				
Alea Willin III	e plot is bedded and	iuiioweu.	No evidence of rec	Jeni Sun	allerallo	11.				



W3_WD5



Project/Site: Trail Ridge South	City/County: Bradfo	ord Sampling Date: 11/28/18				
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL Sampling Point: W3_UD5				
Investigator(s): B. McGee, N. Adams	Section, Township, Rang	ge: 12, -7, 22				
Landform (hillside, terrace, etc.): terrace	 Local relief (concave, conve	ex, none): convex Slope (%): 0-2				
Subregion (LRR or MLRA): LRR T, MLRA 15		g: -82° 03' 08.68" Datum: WGS 84				
Soil Map Unit Name: Leon sand, 0 to 2 perce		NWI classification: Upland				
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "Norm:	al Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrok		explain any answers in Remarks.)				
<u> </u>		ations, transects, important features, etc.				
Hydrophytic Vegetation Present?	Yes X No Is the Sampled Are	na .				
	Yes No X within a Wetland?	Yes No_X_				
	Yes X No					
Remarks:						
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 0.65 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check <u>all that apply)</u>	Surface Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)				
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches): Wetlan	nd Hydrology Present? Yes X No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspections),	if available:				
Remarks:						
	silviculture practices. Sphagnum moss less than	1% coverage, located on the bottom of the furrow.				

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W3 UD5 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 12 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 13 x 3 = FAC species 20 x 4 = 1. Morella cerifera FAC FACU species 80 No x 5 = 2. Lyonia lucida 5 No **FACW** UPL species 0 0 95 (A) (B) 3. llex glabra 30 Yes **FACW** Column Totals: 231 4. Serenoa repens 20 Yes **FACU** Prevalence Index = B/A = 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 65 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Andropogon virginicus FAC 3 No ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Lachnanthes caroliniana 10 Yes OBL 3. llex glabra 15 Yes **FACW Definitions of Four Vegetation Strata:** 1 4 OBL Scirpus cyperinus Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. Woodwardia virginica 1 No OBL height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 30 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 15 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 70% cover. Not included in the calculations because it was planted.

SOIL Sampling Point: W3_UD5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)				
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Rema	rico			
0-3 10YR 2/1 30 Sandy Remaining soil unm	asked 101R 6/1			
3-20 10YR 4/1 20 Sandy Remaining soil unm	asked 10YR 6/1			
	_			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Market Sand Grains.	atrix.			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydronic Soil Indicators for Problematic Hydronic Hydronic Indicators for Problematic Hydronic Hy	ric Soils³:			
Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O)				
Histic Epipedon (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR S)				
Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16)				
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) (outside MLRA 150A)				
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Reduced Vertic (F18)				
Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) (outside MLRA 150A, 150	3)			
5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F	19) (LRR P, T)			
Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain	Soils (F20)			
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B)	(MLRA 153B)			
Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21)	Red Parent Material (F21)			
Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F12)	Very Shallow Dark Surface (F22)			
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A				
Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma I	Matrix (TS7)			
Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D)				
Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)	_ ` ` ' _ '			
Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A)				
Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20)				
Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Indicators of hydrophytic veg				
	wetland hydrology must be present,			
(MLRA 138, 152A in FL, 154) unless disturbed or probler	unless disturbed or problematic.			
Restrictive Layer (if observed):				
Type: None Depth (inches): Hydric Soil Present? Yes	No X			
Remarks: Area within the plot is bedded and furrowed. No evidence of recent soil alteration.				
The willing the plot to bedded and fair owed. The evidence of recent son alteration.				



W3_UD5



Project/Site: Trail Ridge South	City/C	County: Bradford	Sampling Date: 11/1/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W4-WD1				
Investigator(s): D. Sank, C. Kul, T. Richardso	on Section, To	ownship, Range: 13,-7,22					
Landform (hillside, terrace, etc.): terrace		concave, convex, none): none	Slope (%): 0-2				
Subregion (LRR or MLRA): LRR T, MLRA 15	•	Long: -82° 03' 39.57"	Datum: WGS 84				
Soil Map Unit Name: Mascotte sand, 0 to 2 p			cation: Upland				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	, explain in Remarks.)				
Are Vegetation, Soil, or Hydrole		Are "Normal Circumstances" preser					
Are Vegetation, Soil, or Hydrole		(If needed, explain any answers in F					
SUMMARY OF FINDINGS – Attach			•				
Hydrophytic Vegetation Present?	Yes X No Is the	Sampled Area					
1		n a Wetland? Yes X	No				
'	Yes X No		· "——				
Remarks:	<u> </u>						
Rainfall conditions for Bradford County were measurable rain fell during the week leading some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	up to the site visit. The site has been casonal high water table resuting in value been constructed perpendicular	en historically converted to pine plantat wetland vegetation within the furrow, ho to the slope per silviculture BMPs. Sin	tion and has beds/furrows. In owever upland plants remain on				
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicator	s (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cra	<u> </u>				
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U)		Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on Livir		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	— · · · · · · · · · · · · · · · · · · ·	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos					
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitare	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		Sphagnum Mos	s (D8) (LRR T,U)				
Field Observations:	_						
Surface Water Present? Yes	No X Depth (inches):	_					
Water Table Present? Yes	No X Depth (inches):	<u> </u>					
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes X No				
(includes capillary fringe)		<u> </u>					
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous	inspections), if available:					
Remarks:	-	-					
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected	that during the wet season the water to	able is present with in the top				

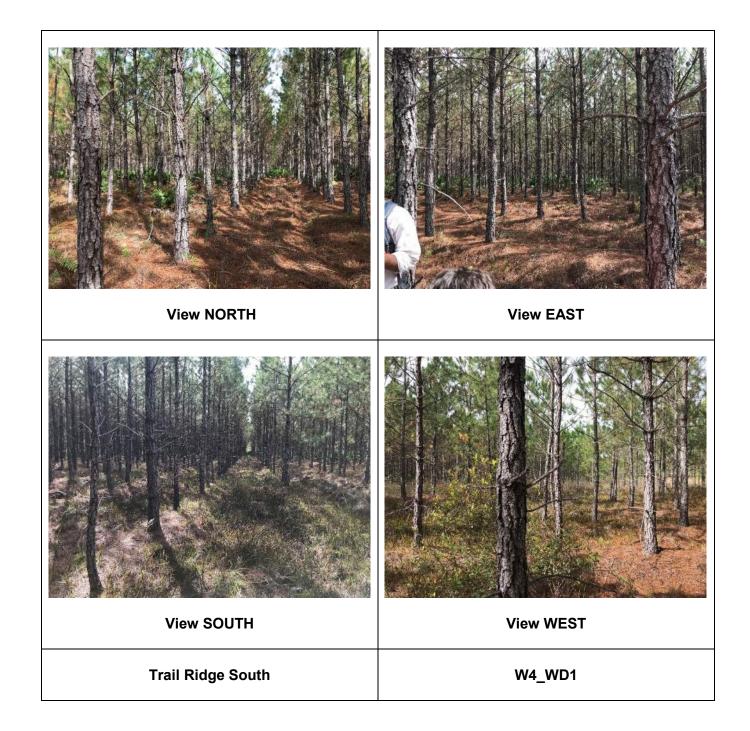
VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W4-WD1 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 2 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species 60 ___ x 1 = =Total Cover 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m_) 10 x 3 = FAC species 10 0 x 4 = 1. Vaccinium corymbosum **FACW FACU** species 0 x 5 = 2. UPL species 0 0 Column Totals: 85 (A) (B) 3. 120 4. Prevalence Index = B/A = 1 41 5. **Hydrophytic Vegetation Indicators:** X 1 - Rapid Test for Hydrophytic Vegetation 6. 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. 10 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Lachnanthes caroliniana 50 OBL Yes ¹Indicators of hydric soil and wetland hydrology must be 10 present, unless disturbed or problematic. 2. Woodwardia virginica No OBL 10 3. Dichanthelium dichotomum No FAC **Definitions of Four Vegetation Strata:** 4 5 Lachnocaulon anceps **FACW** Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 75 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 38 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: No 20% of total cover: Present? Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 70% cover. Not inculded in the calculations. No woody vines identified in the plot.

SOIL Sampling Point: W4-WD1

	ription: (Describe t	o the dept				ator or co	onfirm the absence	of indicators.)		
Depth	Matrix			Featur		. 2				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-1	10YR 2/1	65					Sandy	Remaining soil unmasked 10YR 6/1		
1-5	10YR 2/1	50					Sandy	Remaining soil unmasked 10YR 6/1		
5-12	10YR 5/1	90	10YR 6/1	10	<u>D</u>	<u>M</u>	Sandy	Increases to 25% at 12 inches		
12-20	10YR 2/2	100					Sandy			
	oncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix.		
=	ndicators: (Applical	ole to all L						for Problematic Hydric Soils ³ :		
Histosol	` '		Thin Dark Su					Muck (A9) (LRR O)		
	ipedon (A2)		Barrier Island		•	12)		Muck (A10) (LRR S)		
Black His			(MLRA 15					Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	•	` , '	.RR O)	•	side MLRA 150A)		
	Layers (A5)		Loamy Gleye		(F2)			ed Vertic (F18)		
	Bodies (A6) (LRR, P,		Depleted Mar	` '			•	side MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)		Depleted Dar		` '			llous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre		(F8)		(MLRA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L							
Thick Da	rk Surface (A12)		Depleted Oct					hallow Dark Surface (F22)		
	airie Redox (A16) (M	•						side MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)		Delta Ochric				(MLRA 153B, 153D)			
	edox (S5)		Reduced Ver	•			· · · · · · · · · · · · · · · · · · ·			
x Stripped	` ,		Piedmont Flo							
	face (S7) (LRR P, S,		Anomalous E	-	•	,	,			
	e Below Surface (S8))	(MLRA 149				³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow		•	•	wetland hydrology must be present,			
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
-	None									
Depth (in	iches):						Hydric Soil Prese	ent? Yes <u>X</u> No		
Remarks:										
Area within th	ne plot is bedded and	furrowed.	No evidence of rec	ent alte	ration.					



W4_WD1



Project/Site: Trail Ridge South	City/County: Bradford	d Sampling Date: 11/1/18			
Applicant/Owner: The Chemours Compan	y FC, LLC	State: FL Sampling Point: W4-UD1			
Investigator(s): C. Kul, D. Sank, T. Richardson	Section, Township, Range	e: 13, -7, 22			
Landform (hillside, terrace, etc.): terrace	Local relief (concave, convex				
Subregion (LRR or MLRA): LRR T, MLRA 153	•	-82° 03' 38.83" Datum: WGS 84			
Soil Map Unit Name: Mascotte sand, 0 to 2 pe		NWI classification: Upland			
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes x	No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrolo	<u> </u>	Circumstances" present? Yes x No			
Are Vegetation, Soil, or Hydrolo	· · · · · · · · · · · · · · · · · · ·	explain any answers in Remarks.)			
<u> </u>		tions, transects, important features, etc.			
Hydrophytic Vegetation Present? Y	/es x No Is the Sampled Area				
	'es No x within a Wetland?	Yes No <u>x</u> _			
	'es x No				
Remarks:					
measurable rain fell during the week leading usome areas the furrows may intercept the seathe bed. Beds and furrows in some areas have		converted to pine plantation and has beds/furrows. In ion within the furrow, however upland plants remain on silviculture BMPs. Since furrows are constructed			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	d; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)			
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	_	FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)			
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes	No x Depth (inches):				
Saturation Present? Yes	No x Depth (inches): Wetland	d Hydrology Present? Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mon Not available	itoring well, aerial photos, previous inspections), if	available:			
Remarks:					
	silviculture practices. It is expected that during the	wet season the water table is present within the top			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W4-UD1 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 10m x 10m) % Cover Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 10 x 1 = 50% of total cover: **FACW** species 20% of total cover: x2 =0 Sapling/Shrub Stratum (Plot size: __10m x 10m _) x 3 = FAC species 10 20 x 4 = 1. Serenoa repens 20 FACU **FACU** species 80 2. UPL species 2 x 5 = 10 42 (B) 3. Column Totals: (A) 130 4. Prevalence Index = B/A = 3 10 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. 20 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Woodwardia virginica 10 OBL Yes ¹Indicators of hydric soil and wetland hydrology must be 5 present, unless disturbed or problematic. 2. Dichanthelium dichotomum Yes FAC Cladonia sp. 2 3. No UPL **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 17 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 50% of total cover: 9 20% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliotti makes up the canopy with 70% cover. Not included in calculations because it was planted.

US Army Corps of Engineers

SOIL Sampling Point: W4-UD1

Profile Desc	ription: (Describe t	to the dept	h needed to docu	ment th	ne indica	ator or co	onfirm the absence	of indicators.)			
Depth	Matrix			Feature							
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture		narks		
0-8	10YR 3/1	30					Sandy	Remaining soil ur	nmasked 10YR 6/1		
8-11	10YR 6/2	100					Sandy				
11-20	10YR 5/2	90	10YR 6/2	10	<u>D</u>	<u>M</u>	Sandy				
20-22	10YR 2/1	100					Sandy				
									_		
	ncentration, D=Depl					d Grains.		PL=Pore Lining, M=			
-	ndicators: (Applica	ble to all L						for Problematic Hy	dric Soils ³ :		
Histosol (` '		Thin Dark Su	•				luck (A9) (LRR O)			
	ipedon (A2)		Barrier Island		•	12)		luck (A10) (LRR S)			
Black His	` '		(MLRA 153					Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck	,	· / ·	.RR O)	•	ide MLRA 150A)			
	Layers (A5)		Loamy Gleye		(F2)			ed Vertic (F18)			
	Bodies (A6) (LRR, P		Depleted Mat	, ,			•	ide MLRA 150A, 1	•		
	cky Mineral (A7) (LR		Redox Dark S		` '			ont Floodplain Soils	. ,		
	esence (A8) (LRR U)		Depleted Dar		` '			lous Bright Floodpla	in Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre		(F8)		(MLRA 153B)				
	Below Dark Surface	e (A11)	Marl (F10) (L				Red Parent Material (F21)				
Thick Da	rk Surface (A12)		Depleted Och					hallow Dark Surface	,		
	airie Redox (A16) (M	•						ide MLRA 138, 152	•		
	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
	leyed Matrix (S4)		Delta Ochric				(MLRA 153B, 153D)				
	edox (S5)		Reduced Ver								
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Sur	face (S7) (LRR P, S	, T, U)	Anomalous E	-			•				
	e Below Surface (S8))	(MLRA 149				³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	-22)	wetland hydrology must be present,				
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: <u>N</u> Depth (in							Hydric Soil Prese	ent? Yes	No _ x		
Remarks:			 -				Tiyuno con i rese				
	ne plot is bedded and	furrowed	No evidence of rec	ent alte	ration						
7 ti Ca Within th	io piot io boddod di io	i idilowed.	140 CVIGORIOC OF FOC	ont and	ration.						



W4_UD1



Project/Site: Trail Ridge South		City/County: Bradford		Sampling Date: 11/28/18				
Applicant/Owner: The Chemours Compa	ny FC, LLC		State: FL	Sampling Point: W5_WD1				
Investigator(s): B. McGee, N. Adams	Sect	tion, Township, Range: 1	12, -7, 22	<u>-</u>				
Landform (hillside, terrace, etc.): depression	•	elief (concave, convex, no		Slope (%): 0				
Subregion (LRR or MLRA): LRR T, MLRA 15			2° 03' 07.93"	Datum: WGS 84				
Soil Map Unit Name: Starke mucky fine sand	·		NWI classificat					
Are climatic / hydrologic conditions on the site	·	Yes X		explain in Remarks.)				
Are Vegetation, Soil, or Hydrol	•		cumstances" present?					
	<u> </u>		ain any answers in Rei					
Are Vegetation, Soil, or Hydrol SUMMARY OF FINDINGS – Attach			•	•				
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area						
Hydric Soil Present?		within a Wetland?	Yes X	No				
Wetland Hydrology Present?	Yes X No		<u></u>					
Remarks:								
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the set the bed. Beds and furrows in some areas ha slope, this can result in ponding of water with	ring the prior week. The site has asonal high water table resuting ave been constructed perpendic	s been historically conver ng in wetland vegetation w cular to the slope per silvi	rted to pine plantation a vithin the furrow, howev	and has beds/furrows. In ver upland plants remain on				
HYDROLOGY								
Wetland Hydrology Indicators: Primary Indicators (minimum of one is require Surface Water (A1)	ed; check all that apply) Aquatic Fauna (B13)	<u> </u>	Surface Soil Crack	minimum of two required) (s (B6) d Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRF	- ₹ U)	Drainage Patterns (B10)					
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines (B16)					
Water Marks (B1)	Oxidized Rhizospheres or	n Living Roots (C3)						
Sediment Deposits (B2)	Presence of Reduced Iron	n (C4)	Crayfish Burrows ((C8)				
Drift Deposits (B3)	Recent Iron Reduction in			on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	_	X Geomorphic Positi	` '				
Iron Deposits (B5)	X Other (Explain in Remark							
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Test (D5)						
Water-Stained Leaves (B9)		-	X Sphagnum Moss (D8) (LRR T,U)				
Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches):	Wetland Hy	ydrology Present?	Yes <u>X</u> No				
Describe Recorded Data (stream gauge, moi Not available	nitoring well, aerial photos, pre	vious inspections), if avail	lable:					
Remarks: The natural landform has been converted for inches of the soil profile.	silviculture practices. It is expe	ected that during the wet s	season the water table	is present with in the top 12				

 VEGETATION (Four Strata) – Use scientific names of plants.
 Sampling Point:
 W5_WD1

· '	A1 1.4	<u> </u>	1 1: .	
<u>Tree Stratum</u> (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
				Dominance rest worksneet.
Liquidambar styraciflua	1	No	FAC	Number of Dominant Species
2. Nyssa biflora	1	No	OBL	That Are OBL, FACW, or FAC: 4 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	2 =	Total Cover		OBL species 54 x 1 = 54
50% of total cover: 1		of total cover:	1	FACW species 16 x 2 = 32
		or total cover.		· — —
Sapling/Shrub Stratum (Plot size: 10m x 10m)		.,	= 4 O 14 /	FAC species 37 x 3 = 111
1. <u>Lyonia lucida</u>	15	Yes	FACW	FACU species 0 x 4 = 0
Morella cerifera	5	Yes	FAC	UPL species 0 x 5 = 0
3.				Column Totals:(A)(B)
4				Prevalence Index = B/A =1.84
5.		-		Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0¹
0.		T-1-1-0		l —
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:10	20%	of total cover:	4	
Herb Stratum (Plot size: 10m x 10m)				
Woodwardia virginica	10	No	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Xyris elliottii	30	Yes	OBL	present, unless disturbed or problematic.
3. Andropogon virginicus	30	Yes	FAC	Definitions of Four Vegetation Strata:
4. Lachnanthes caroliniana	10	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Osmundastrum cinnamomeum	1	No	FACW	more in diameter at breast height (DBH), regardless of
6. Lachnocaulon minus	3	No	OBL	height.
7.			- 052	
				Sapling/Shrub – Woody plants, excluding vines, less
8.		-		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	84 =	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 42	2 20%	of total cover:	17	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Vitis rotundifolia	1	No	FAC	
		110	170	
2.				
3				
4.				
5				Hydrophytic
	1 =	=Total Cover		Vegetation
50% of total cover:1	20%	of total cover:	1	Present?
Remarks: (If observed, list morphological adaptations	s helow \			
Planted Pinus elliottii makes up the canopy with 2% c		luded in calcula	ations because	se it was planted
a i mas sinstai mattos ap tilo sanopy With 270 o	5.51. 1 1 0t 1110			oo a aaa piaritaa.

SOIL Sampling Point: W5_WD1

		o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix	%		x Featur %		Loc ²	Touture	Domonto			
(inches)	Color (moist)		Color (moist)		Type ¹	LOC	Texture	Remarks			
0-5.5	10YR 2/1	70					Sandy	Remaining soil unmasked 10YR 6/1			
5.5-17	10YR 3/1	70	10YR 5/1	20	<u>D</u>	<u>M</u>	Sandy	Remaining soil unmasked 10YR 6/1			
17-20	10YR 7/1	100					Sandy				
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.			
	ndicators: (Applicat							for Problematic Hydric Soils ³ :			
Histosol (A1)		Χ Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)			
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	luck (A10) (LRR S)			
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie Redox (A16)			
Hydrogen	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outs	ide MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(outs	ide MLRA 150A, 150B)			
5 cm Muc	ky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	sence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bright Floodplain Soils (F20)			
1 cm Muc	k (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLR	RA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Parent Material (F21)				
Thick Dar	k Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) (M I	LRA 150A	Iron-Mangan	ese Mas	sses (F12	2) (LRR (O, P, T) (outside MLRA 138, 152A in FL, 154)				
Sandy Mu	ıcky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ace (F13	e (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS						
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (MLRA 15	1)	(MLRA 153B, 153D)				
Sandy Re	edox (S5)		Reduced Ve	rtic (F18) (MLRA	150A, 1	Other (Explain in Remarks)				
X Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
X Dark Surf	ace (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	(0)				
X Polyvalue	Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	, T, U)		Very Shallow	Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
-	lone						Unadala Call Bassa	Was V Na			
Depth (in	cnes):						Hydric Soil Prese	ent? Yes <u>X</u> No			
Remarks:	e plot is bedded and	furrowed	No evidence of rea	cent soil	alteratio	n					
Alea Willin III	e plot is bedded and	iuiioweu.	No evidence of rec	Jenit Son	aiteratio	11.					



W5_WD1



Project/Site: Trail Ridge South	City/Coun	ty: Bradford	Sampling Date: 11/28/18			
Applicant/Owner: The Chemours Compa	ny FC, LLC	State: FL	Sampling Point: W5_UD1			
Investigator(s): B. McGee, N. Adams	Section, Towns	ship, Range: 12, -7, 22				
Landform (hillside, terrace, etc.): terrace	Local relief (conc	ave, convex, none): none	Slope (%): 0			
Subregion (LRR or MLRA): LRR T, MLRA 15	53A Lat: 29° 54' 08.76"	Long: -82° 03' 07.91"	Datum: WGS 84			
Soil Map Unit Name: Leon sand, 0-2 percent		NWI classifica				
Are climatic / hydrologic conditions on the site	e typical for this time of year?	Yes X No (If no,	explain in Remarks.)			
Are Vegetation, Soil, or Hydrol	ogy significantly disturbed? A	are "Normal Circumstances" present	? Yes X No			
Are Vegetation, Soil, or Hydrol		If needed, explain any answers in R				
SUMMARY OF FINDINGS – Attach	<u> </u>					
		npled Area				
	Yes No X within a V		No X			
	Yes X No		···· <u>····</u>			
Remarks:						
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of wat	ring the prior week. The site has been his easonal high water table resuting in wetla ave been constructed perpendicular to th	storically converted to pine plantation and vegetation within the furrow, how se slope per silviculture BMPs. Sinc	on and has beds/furrows. In vever upland plants remain on			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Crac	<u>.</u>			
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)		Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres on Living R	oots (C3) Dry-Season Wate	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soil	ls (C6) Saturation Visible	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	Geomorphic Position (D2)			
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7	· <u>)</u>	X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)			
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previous insp	pections), if available:				
Remarks:						
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected that	during the wet season the water tal	ole is present with in the top			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W5 UD1 Absolute Dominant Indicator % Cover Species? Tree Stratum (Plot size: 10m x 10m) Status **Dominance Test worksheet:** 1. Gordonia lasianthus 5 Yes **FACW Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: 5 =Total Cover **OBL** species x 1 = **FACW** species 50% of total cover: 20% of total cover: x2 =Sapling/Shrub Stratum (Plot size: 10m x 10m) 7 x 3 = FAC species 21 x 4 = 1. Serenoa repens **FACU FACU** species 70 280 35 Yes 2. Ilex glabra Yes **FACW** UPL species 0 x 5 = 0 (B) 3. Column Totals: 122 (A) 386 4. Prevalence Index = B/A = 3.16 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Andropogon virginicus FAC 5 No ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Pteridium aquilinum 35 Yes **FACU** 5 3. Lachnanthes caroliniana No OBL **Definitions of Four Vegetation Strata:** 4 1 Dichanthelium dichotomum FAC Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5. more in diameter at breast height (DBH), regardless of height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 46 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 23 Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W5_UD1

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Ren	narks	
,			Color (Illoist)		Туре					
0-7.5	10YR 2/1	50					Sandy	Remaining soil ur	nmasked 10YR 6/1	
7.5-23	10YR 5/1	80	10YR 7/1	20	D	M	Sandy			
			-							
¹ Type: C=Co	ncentration, D=Deple	etion RM=	:Reduced Matrix M		ked Sand		² Location:	PL=Pore Lining, M=	Matrix	
	ndicators: (Applicat					Oranis.		for Problematic Hy		
Histosol (Thin Dark Su			S. T. U)		luck (A9) (LRR O)		
	ipedon (A2)		Barrier Island	•	, ,			luck (A10) (LRR S)		
Black His			(MLRA 15			ŕ		Prairie Redox (A16)		
Hydroger	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outs	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)		
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(outs	side MLRA 150A, 1	i0B)	
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils	(F19) (LRR P, T)	
	esence (A8) (LRR U)		Depleted Da					lous Bright Floodpla	in Soils (F20)	
	ck (A9) (LRR P, T)		Redox Depre		(F8)		(MLRA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L					arent Material (F21)	(====)	
	rk Surface (A12)		Depleted Oc				Very Shallow Dark Surface (F22) D, P, T) (outside MLRA 138, 152A in FL, 154)			
	airie Redox (A16) (M							•		
	ucky Mineral (S1) (Li	KK (J, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D)			
Sandy Re	eyed Matrix (S4)		Delta Ochric Reduced Ve							
	Matrix (S6)		Piedmont Flo							
	face (S7) (LRR P, S,	T U)	Anomalous I							
	e Below Surface (S8)		(MLRA 14	-			³ Indicators of hydrophytic vegetation and			
(LRR S			Very Shallow				wetland hydrology must be present,			
,	,		(MLRA 13			•	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type: 1	None									
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No X	
Remarks:										
Area within th	e plot is bedded and	furrowed.	No evidence of re	cent soil	alteratio	n.				



W5_UD1



Project/Site: Trail Ridge South	City/	/County: Bradford	Sampling Date: 11/29/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W6-WD1				
Investigator(s): D.LeJeune, B. McGee	Section, ⁻	Township, Range: 12, -7, 22	_				
Landform (hillside, terrace, etc.): depression		(concave, convex, none): concave	Slope (%): 2%				
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 02' 55.37"	Datum: WGS 84				
Soil Map Unit Name: Pottsburg Sand		 -	cation: Wetland				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes x No (If no	o, explain in Remarks.)				
Are Vegetation, Soil, or Hydrole	oav significantly disturbed?						
Are Vegetation, Soil, or Hydrolo		(If needed, explain any answers in					
SUMMARY OF FINDINGS – Attach			,				
		e Sampled Area					
1		in a Wetland? Yes X	No				
li	Yes x No						
Remarks:	· · · · · · · · · · · · · · · · · · ·						
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ring the prior week. The site has be easonal high water table resuting in ave been constructed perpendicula	een historically converted to pine planta wetland vegetation within the furrow, h or to the slope per silviculture BMPs. Si	ation and has beds/furrows. In owever upland plants remain on				
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicato	rs (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cr					
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U)		Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)		x Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on Liv	ving Roots (C3) Dry-Season Wa	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron (C4		Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tille	ed Soils (C6) Saturation Visit	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Po	x Geomorphic Position (D2)				
Iron Deposits (B5)	x Other (Explain in Remarks)	Shallow Aquita	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		x Sphagnum Mos	ss (D8) (LRR T,U)				
Field Observations:							
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):						
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes X No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previou	us inspections), if available:					
Remarks:	-		_				
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected	ed that during the wet season the water	table is present with in the top				

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

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. Nyssa biflora		Yes	OBL	Number of Dominant Species
2. Persea palustris	5	No	FACW	That Are OBL, FACW, or FAC:7 (A)
3. Taxodium ascendens		No No	OBL	Total Number of Dominant
4. Acer rubrum	1	No No	FAC	Species Across All Strata: 7 (B)
5. Salix caroliniana	10	Yes	OBL	Percent of Dominant Species
6. Ilex myrtifolia	15	Yes	FACW	That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		=Total Cover		OBL species 89 x 1 = 89
50% of total cover: 2	20%	of total cover:	9	FACW species 62 x 2 = 124
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 36 x 3 = 108
1. Ilex myrtifolia	40	Yes	FACW	FACU species6 x 4 =24
2. Morella cerifera	25	Yes	FAC	UPL species0 x 5 =0
3. Serenoa repens	5	No	FACU	Column Totals: 193 (A) 345 (B)
4. Nyssa biflora	5	No	OBL	Prevalence Index = B/A = 1.79
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				X 3 - Prevalence Index is ≤3.0 ¹
	75 =	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:38	20%	of total cover:	15	
Herb Stratum (Plot size: 10m x 10m)				
1. Scirpus cyperinus	10	No	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Woodwardia virginica	35	Yes	OBL	present, unless disturbed or problematic.
3. Cladium mariscus	15	Yes	OBL	Definitions of Four Vegetation Strata:
4. Eupatorium capillifolium	1	No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Hypericum tetrapetalum	2	No	OBL	more in diameter at breast height (DBH), regardless of
6. Solidago fistulosa	5	No	FAC	height.
7. Pluchea odorata	2	No	FACW	
8. Ludwigia repens	1	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9. Rubus argutus	5	No	FAC	than 3 iii. DBH and greater than 3.20 it (1 iii) tall.
10.				
11				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
	76	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 38		of total cover:	16	height.
Woody Vine Stratum (Plot size: 10m x 10m)	2070	or total cover.	10	
2.				
9				
3.				
4.				
1				Hydrophytic
4. 5.		=Total Cover		Vegetation
4.		=Total Cover		
4. 5. 50% of total cover: Remarks: (If observed, list morphological adaptation	20% s below.)	of total cover:		Vegetation
4 5 50% of total cover:	20% s below.)	of total cover:		Vegetation
4. 5. 50% of total cover: Remarks: (If observed, list morphological adaptation	20% s below.)	of total cover:		Vegetation
4. 5. 50% of total cover: Remarks: (If observed, list morphological adaptation	20% s below.)	of total cover:		Vegetation

Sampling Point: W6-WD1

SOIL Sampling Point: W6-WD1

	ription: (Describe t	o the dept				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%		k Featur %		Loc ²	Toyturo	Domarka			
(inches)			Color (moist)	70	Type ¹	LOC	Texture	Remarks			
0-15	10YR 2/1	98					Mucky Sand	Remaining 2% unmasked 10YR 6/1			
15-22	10YR 2/1	5	10YR 5/1	45	D	M	Sandy	Remaining 50% 10YR 3/1			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked San	d Grains.	² Location:	PL=Pore Lining, M=Matrix.			
	ndicators: (Applicat							for Problematic Hydric Soils ³ :			
Histosol ((A1)		X Thin Dark Su	ırface (S	59) (LRR	S, T, U)	1 cm M	Muck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Islands 1 cm Muck (S12)				2 cm Muck (A10) (LRR S)				
Black His	stic (A3)		(MLRA 153B, 153D)				Coast Prairie Redox (A16)				
Hydroger	n Sulfide (A4)		Loamy Muck	Loamy Mucky Mineral (F1) (LRR O)				(outside MLRA 150A)			
	Layers (A5)		Loamy Gleye				Reduced Vertic (F18)				
`	Bodies (A6) (LRR, P,		Depleted Ma	, ,			(outside MLRA 150A, 150B)				
	cky Mineral (A7) (LR		Redox Dark		` '		Piedmont Floodplain Soils (F19) (LRR P, T)				
	esence (A8) (LRR U)		Depleted Dark Surface (F7)				Anomalous Bright Floodplain Soils (F20)				
	ck (A9) (LRR P, T)	(0.44)	Redox Depressions (F8)				(MLRA 153B)				
	Below Dark Surface rk Surface (A12)	(A11)	Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)				Red Parent Material (F21) Very Shallow Dark Surface (F22)				
	airie Redox (A16) (M	I DA 150A						side MLRA 138, 152A in FL, 154)			
	ucky Mineral (S1) (Li	-					Barrier Islands Low Chroma Matrix (TS7)				
	leyed Matrix (S4)	0, 0,	Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)				
	edox (S5)		Reduced Vertic (F18) (MLRA 150A, 15				, , ,				
	Matrix (S6)		Piedmont Flo					(
	face (S7) (LRR P, S,	T, U)	Anomalous E		-						
	e Below Surface (S8)		(MLRA 149	-		•		ators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow Dark Surface (F22)				wetland hydrology must be present,				
		(MLRA 138, 152A in FL, 154)				unless disturbed or problematic.					
Restrictive L	ayer (if observed):										
Type: N	None										
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No			
Remarks:											
No evidence	or recent soil alteration	on									



W6_WD1



Project/Site: Trail Ridge South	City/County: Br	radford Sampling Date: 11/29/18					
Applicant/Owner: The Chemours Compa	any FC, LLC	State: FL Sampling Point: W6-UD1					
Investigator(s): D. LeJeune, B. McGee	Section, Township, F	Range: 12, -7, 22					
Landform (hillside, terrace, etc.): terrace	 Local relief (concave, c	convex, none): none Slope (%): 0					
Subregion (LRR or MLRA): LRR T, MLRA 1	53A Lat: 29° 54' 10.39"	Long: -82° 02' 56.15" Datum: WGS 84					
Soil Map Unit Name: Pottsburg Sand		NWI classification: Upland					
Are climatic / hydrologic conditions on the site	e typical for this time of year?	x No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydro	ology significantly disturbed? Are "N	lormal Circumstances" present? Yes x No					
Are Vegetation, Soil, or Hydro		ded, explain any answers in Remarks.)					
		locations, transects, important features, etc.					
Hydrophytic Vegetation Present?	Yes No x Is the Sampled	d Area					
	Yes No x within a Wetlan						
	Yes X No						
Remarks:							
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 0.65 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required	red; check all th <u>at apply)</u>	Surface Soil Cracks (B6)					
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)					
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)					
Water Marks (B1)	Oxidized Rhizospheres on Living Roots ((C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)					
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)					
Iron Deposits (B5)	x Other (Explain in Remarks)						
Inundation Visible on Aerial Imagery (B7	7)	X FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)					
Field Observations:							
Surface Water Present? Yes	No x Depth (inches):						
Water Table Present? Yes	No x Depth (inches):	Internal Hudwale and Discount 2 Voc. V No.					
Saturation Present? Yes	No x Depth (inches): W	/etland Hydrology Present? Yes X No					
(includes capillary fringe) Describe Recorded Data (stream gauge, mo Not available	onitoring well, aerial photos, previous inspection	ns), if available:					
Remarks: The natural landform has been converted for 12 inches of the soil profile	r silviculture practices. It is expected that durin	ng the wet season the water table is present with in the top					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W6-UD1 Absolute Dominant Indicator % Cover Species? Tree Stratum (Plot size: 10m x 10m) Status **Dominance Test worksheet:** 1. Gordonia lasianthus 2 No **FACW Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover x 1 = **FACW** species 50% of total cover: 20% of total cover: x2 =Sapling/Shrub Stratum (Plot size: 10m x 10m) x 3 = FAC species 12 25 x 4 = 1. Persea palustris **FACW FACU** species 100 No 2. Ilex glabra 50 Yes **FACW** UPL species 0 x 5 = 0 2 (B) 3. Morella cerifera No FAC Column Totals: 98 (A) 250 4. Serenoa repens 20 Yes **FACU** Prevalence Index = B/A = 2.55 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Pteridium aquilinum **FACU** 5 Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. llex glabra **FACW** 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 20 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 50% of total cover: 10 20% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W6-UD1

	ription: (Describe t	o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Rer	marks		
0-7	10YR 3/1	45	Color (Illoist)		Туре	<u> </u>	Sandy		unmasked 10YR 6/1		
0-1	10113/1	43					Gariuy	Remaining 55 % C	IIIIIaskeu 1011X 0/1		
7-22	10YR 3/1	90	10YR 4/1	10		M	Sandy	Depletion percent inc	creases with soil profile		
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, N	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=	-Matrix.		
Hydric Soil I	ndicators: (Applical	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic H	ydric Soils³:		
Histosol ((A1)		Thin Dark Su	ırface (S	69) (LRR	S, T, U)	1 cm M	Muck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Island	Barrier Islands 1 cm Muck (S12)				2 cm Muck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	(MLRA 153B, 153D)				Coast Prairie Redox (A16)			
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outside MLRA 150A)				
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduced Vertic (F18)				
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	Depleted Matrix (F3)				(outside MLRA 150A, 150B)			
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark	Redox Dark Surface (F6)				Piedmont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Da	Depleted Dark Surface (F7)				Anomalous Bright Floodplain Soils (F20)			
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	Redox Depressions (F8)				(MLRA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	Marl (F10) (LRR U)				Red Parent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Oc	Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A) Iron-Mangan	Iron-Manganese Masses (F12) (LRR C				side MLRA 138, 15	2A in FL, 154)		
Sandy M	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	Umbric Surface (F13) (LRR P, T, U)				Barrier Islands Low Chroma Matrix (TS7)			
Sandy Gleyed Matrix (S4)			Delta Ochric	Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)			
Sandy Redox (S5)			Reduced Ve	Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)							
Stripped	Matrix (S6)		Piedmont Flo	Piedmont Floodplain Soils (F19) (MLRA 149A)							
	face (S7) (LRR P, S,		Anomalous E	-							
	e Below Surface (S8))		(MLRA 149A, 153C, 153D)				³ Indicators of hydrophytic vegetation and			
(LRR S, T, U)				Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
			(MLRA 13	(MLRA 138, 152A in FL, 154)				unless disturbed or problematic.			
	ayer (if observed):										
- · · -	None						Uhadala Oali Baasa	10 V	Na		
Depth (in	cnes):						Hydric Soil Prese	ent? Yes	Nox		
Remarks:	o platic baddad and	furration	No ovidopos or ro	ant ani	l altaratio						
Area within th	ne plot is bedded and	iurrowea.	no evidence or rec	cent son	i aiteratio	11.					



W6_UD1



Project/Site: Trail Ridge South	City/Cou	unty: Bradford	Sampling Date: 11/29/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W7-WD1				
Investigator(s): D.LeJeune, B. McGee	Section, Tow	/nship, Range: 12,-7, 22					
Landform (hillside, terrace, etc.): depression		ncave, convex, none): concave	Slope (%): 1				
Subregion (LRR or MLRA): LRR T, MLRA 15	•	Long: -82° 03' 29.72"	Datum: WGS 84				
Soil Map Unit Name: Sapelo Sand			ation: Upland				
Are climatic / hydrologic conditions on the site	e typical for this time of year?	Yes x No (If no,	explain in Remarks.)				
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed?	Are "Normal Circumstances" presen	t? Yes x No				
Are Vegetation, Soil, or Hydrole		(If needed, explain any answers in R					
SUMMARY OF FINDINGS – Attach			•				
Hydrophytic Vegetation Present?	Yes x No Is the S	ampled Area					
		Wetland? Yes x	No				
li	Yes x No		·				
Remarks:							
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 0.65 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cra					
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern					
Saturation (A3)	Hydrogen Sulfide Odor (C1)	n Sulfide Odor (C1) Moss Trim Lines (B16)					
Water Marks (B1)	x Oxidized Rhizospheres on Living	d Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	e of Reduced Iron (C4) Crayfish Burrows (C8)					
Drift Deposits (B3)	Recent Iron Reduction in Tilled S	Iron Reduction in Tilled Soils (C6) Saturation Visible					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	x Geomorphic Pos					
Iron Deposits (B5)	X Other (Explain in Remarks)	ain in Remarks) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Tes					
x Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)				
Field Observations:							
Surface Water Present? Yes	No x Depth (inches):	.					
Water Table Present? Yes	No x Depth (inches):	.					
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes X No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, moi Not available	nitoring well, aerial photos, previous in	spections), if available:					
Remarks:							
The natural land form has been converted for 12 inches of the soil profile.	r siliviculture practices. It is expected t	hat during the wet season the water t	able is present within the top				

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W7-WD1 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 36 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 10 x 3 = FAC species 3 x 4 = 1. Serenoa repens **FACU** FACU species 12 Yes x 5 = 2. llex glabra UPL species 0 0 74 (A) 3. Column Totals: 128 (B) 4. Prevalence Index = B/A = 1.73 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. 5 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Scleria baldwinii **FACW** 3 No ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Lachnanthes caroliana 15 Yes **FACW** 3. Woodwardia virginica 20 Yes OBL **Definitions of Four Vegetation Strata:** 4 5 **FACW** Lachnocaulon anceps Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. Dichanthelium dichotomum 5 Nο FAC height. 6. Andropogon virginicus 5 No FAC 7. 3 OBL Panicum hemitomon No Sapling/Shrub - Woody plants, excluding vines, less 8 OBL 8. Rhynchospora nitens No than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. OBL Xyris sp. 10. Herb - All herbaceous (non-woody) plants, regardless 11. of size, and woody plants less than 3.28 ft tall. 69 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 35 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines observed in plot.

SOIL Sampling Point: W7-WD1

Depth Matrix Redox Features Texture Remarks
10
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tippe: None Tippe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tippe: None Tippe: Sandy Muck M=Reduced Matrix, MS=Masked Sand Grains. Tippe: None Tippe: Sandy Muck Sands Sands Grains. Tippe: None Tippe: Nane Tippe: Nane Tippe: Nane NS=Masked Sand Grains. Tippe: Sandy Muck M=Reduced Matrix, MS=Masked Sand Grains. Tippe: Nane Tippe: Nane Tippe: Nane Tippe: Nane Tippe: Nane NS=Masked Sand Grains. Tippe: Sandy Muck Mileral (Fall) LRRs, N, U) Tippe: Nane Tippe: Nane Tippe: Nane Tippe: Nane Tippe: Nane Tippe: Nane NS=Masked Sand Grains. Tippe: Sandy Muck Mileral (Fall) LRRs, N, U) Tippe: Nane Tipp
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Pydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histo Epipedon (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F2) Sor Mucky Mineral (A7) (LRR P, T, U) Pepleted Dark Surface (F6) Muck Presence (A6) (LRR U) Depleted Dark Surface (F7) 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 Mucky Mineral (S1) (LRR O, S) Delta Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Stripped Matrix (S4) Dark Surface (S5) Loamy Gleyed Matrix (S4) Delta Ochric (F18) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Reduced Vertic (F18) (outside MLRA 150A, 150B) Pledmont Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 15A) Anomalous Bright Floodplain Soils (F20) (MLRA 153B, 153D) X Other (Explain in Remarks) Very Shallow Dark Surface (F3) (MLRA 153B, 153D) Anomalous Bright Floodplain Soils (F20) (MLRA 153B, 153D) Very Shallow Dark Surface (F3) (MLRA 153B, 153D) Anomalous Bright Floodplain Soils (F20) (MLRA 153B, 153D) Very Shallow Dark Surface (F3) (MLRA 153B, 153D) Very Shallow Dark Surface (F3) (MLRA 153B, 153D) Very Shallow Dark Surface (F3) (MLRA 153B, 153D) Very Shallow Dark Surface (F22) (MLRA 153B, 153D) Very Shallow Dark Surface (F3)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) (MLRA 153B, 153D) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR D) Anomalous Bright Floodplain Soils (F20) Cast Prairie Redox (A16) (MLRA 150A), 150B) Piedmont Floodplain Soils (F20) (MLRA 153B) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) 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 (S8) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) (MLRA 153B, 153D) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR D) Anomalous Bright Floodplain Soils (F20) Cast Prairie Redox (A16) (MLRA 150A), 150B) Piedmont Floodplain Soils (F20) (MLRA 153B) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) 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 (S8) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) (MLRA 153B, 153D) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR D) Anomalous Bright Floodplain Soils (F20) Cast Prairie Redox (A16) (MLRA 150A), 150B) Piedmont Floodplain Soils (F20) (MLRA 153B) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) 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 (S8) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Barrier Islands 1 cm Muck (S12) Black Histic (A3) (MLRA 153B, 153D) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR D) Anomalous Bright Floodplain Soils (F20) Cast Prairie Redox (A16) (MLRA 150A), 150B) Piedmont Floodplain Soils (F20) (MLRA 153B) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) 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 (S8) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Histosol (A1) Thin Dark Surface (S9) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Barrier Islands 1 cm Muck (S12) 2 cm Muck (A10) (LRR S) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) (outside MLRA 150A) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) (outside MLRA 150A, 150B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, T) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) Depleted Below Dark Surface (A11) Mari (F10) (LRR U) Red Parent Material (F21) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 150A) (150B) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 151) (MLRA 151) (muck 153B, 153D) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) X Other (Explain in Remarks) Fiedmont Floodplain Soils (F20) (MLRA 153B, 153D) 3 indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None
Histic Epipedon (A2) Black Histic (A3) (MLRA 153B, 153D) Black Histic (A3) (MLRA 153B, 153D) Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) (JURR O) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) Stratified Layers (A7) (LRR P, T, U) Depleted Matrix (F3) Fiedmont Floodplain Soils (F19) (LRR P, T) Depleted Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Anomalous Bright Floodplain Soils (F20) (MLRA 153B, 153D) Very Shallow Dark Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) Anomalous Bright Floodplain Soils (F20) (MLRA 153B, 153D) Very Shallow Dark Surface (F22) (MLRA 153B, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F12) (MLRA 153B, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Black Histic (A3) (MLRA 153B, 153D) Coast Prairie Redox (A16) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) (outside MLRA 150A, 150B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR P, T) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) Stratified Layers (A7) (LRR, P, T, U) Depleted Matrix (F3) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) (LRR, P, T) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR, O, S) Delta Ochric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR, O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 153B, 153D) Anomalous Bright Floodplain Soils (F20) (MLRA 153B, 153D) Very Shallow Dark Surface (F22) Mulra 153B, 153D) Very Shallow Dark Surface (F22) (MLRA 153B, 153D) Very Shallow Dark Surface (F22) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F2) Mucky Mineral (A7) (LRR P, T, U) Depleted Matrix (F3) Stratified Layers (A5) Organic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F3) Fedox Dark Surface (F6) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S8) (MLRA 153C, T, U) Polyvalue Below Surface (S8) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Icamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) (MLRA 150) Reduced Vertic (F18) (MLRA 150) Piedmont Floodplain Soils (F20) (MLRA 138, 152A in FL, 154) Reduced Vertic (F18) (outside MLRA 150A, 150B) Piedmont Floodplain Soils (F20) (MLRA 153B) Reduced Vertic (F18) (MLRA 151) (MLRA 153B, 152D) Almomalous Bright Floodplain Soils (F20) Wetland 138, 152D Almomalous Bright Floodplain Soils (F20) Wetland 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Stratified Layers (A5) Corganic Bodies (A6) (LRR, P, T, U) Depleted Matrix (F2) Sem Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) Tom Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 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) Delte Ochric (F17) (MLRA 151) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface or problematic. Restrictive Layer (if observed): Type: None
Organic Bodies (A6) (LRR, P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Anomalous Bright Floodplain Soils (F20) 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) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, T, U) Polyvalue Below Surface (S8) (MLRA 138, 152A in FL, 154) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) X Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Floodplain Soils (F20) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F12) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 138, 152A in FL, 154) X Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None
5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Redox Depressions (F8) 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, T, U) Polyvalue Below Surface (S8) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) (MLRA 138, 152A in FL, 154) Marl (F10) (LRR O, P, T) Depleted Ochric (F11) (MLRA 151) Liron-Manganese Masses (F12) (LRR O, P, T) Delta Ochric (F13) (LRR P, T, U) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) 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) Polyvalue Below Surface (S8) (MLRA 153B) Red Parent Material (F21) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) X Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) (MLRA 153B) Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) X Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) 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) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) CIRR P, S, T, U) Polyvalue Below Surface (S8) (MLRA 138, 152A in FL, 154) Marl (F10) (LRR U) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) (MLRA 153B, 153D) Other (Explain in Remarks) Anomalous Bright Floodplain Soils (F20) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) 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) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154) Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D) X Other (Explain in Remarks) Other (Explain in Remarks) Anomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (mLRA 153B, 153D) X Other (Explain in Remarks) Anomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154) Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) X Other (Explain in Remarks) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) 3 Indicators of hydrophytic vegetation and (LRR S, T, U) Very Shallow Dark Surface (F22) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None
Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS7) Delta Ochric (F17) (MLRA 151) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Restrictive Layer (if observed): Type: None Delta Ochric (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D) X Other (Explain in Remarks) Anomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D) (MLRA 149A, 153C, 153D) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Porticular Solution (MLRA 149A) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Delta Ochric (F17) (MLRA 151) (MLRA 153B, 153D) X Other (Explain in Remarks) A Other (Explain in Remarks) (MLRA 149A) A nomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Restrictive Layer (if observed): Type: None Reduced Vertic (F18) (MLRA 150A, 150B) (MLRA 150A, 150B) X Other (Explain in Remarks) Anomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Floodplain Soils (F20) (MLRA 149A) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None Anomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Polyvalue Below Surface (S8) (LRR S, T, U) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Restrictive Layer (if observed): Type: None
(LRR S, T, U) Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154) Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None
(MLRA 138, 152A in FL, 154) unless disturbed or problematic. Restrictive Layer (if observed): Type: None
Restrictive Layer (if observed): Type: None
Type: None
Depth (inches): Hydric Soil Present? Yes X No
Remarks:
We believe this soil would be hydric based on resonable scientific judgement even though it does not meet a specific indicator of hydric soils. Area within the plot is bedded and furrowed. No evidence of recent soil alteration.
Within the plot is sedded and fairewed. No evidence of recent soil diteration.



W7_WD1



Project/Site: Trail Ridge South	City/County: Brad	dfordS	Sampling Date: 11/29/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL S	Sampling Point: W7-UD1
Investigator(s): D. LeJeune, B. McGee	Section, Township, Ra	ange: 12, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (concave, co		Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15		ong: -82° 03' 27.91"	Datum: WGS 84
	<u> </u>		
Soil Map Unit Name: Sapelo Sand		NWI classification	•
Are climatic / hydrologic conditions on the site			olain in Remarks.)
Are Vegetation, Soil, or Hydrold		rmal Circumstances" present?	Yes x No
Are Vegetation, Soil, or Hydrolo	ogynaturally problematic? (If neede	ed, explain any answers in Rem	arks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point lo	ocations, transects, imp	ortant features, etc.
Liveline in the Manager Company	Vac. v. Na. la the Complet I		
, , , ,	Yes X No Is the Sampled A Yes No X within a Wetland		No v
	Yes X No Within a Wetland	165	No <u>x</u>
Remarks:	165 <u>X</u> 116 <u> </u>		
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha	near normal for November and are 3.46 inches ing the prior week. The site has been historica asonal high water table resuting in wetland vegive been constructed perpendicular to the slope er within the furrows during abnormally wet periods.	lly converted to pine plantation etation within the furrow, howeve per silviculture BMPs. Since for	and has beds/furrows. In ver upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks	
Surface Water (A1)	Aquatic Fauna (B13)		Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (E	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B1	16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C	3) Dry-Season Water T	Γable (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C	8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible or	n Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position	n (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Test (D	•
Water-Stained Leaves (B9)		x Sphagnum Moss (Di	8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes	No x Depth (inches):		
Saturation Present? Yes	No x Depth (inches): Wet	tland Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)	eitering well geriel photos provious inspections	a) if available:	
Not available	nitoring well, aerial photos, previous inspections	s), if available:	
Trot available			
Remarks:			
The natural landform has been converted for	silviculture practices.		

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W7-UD1 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 5 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 80.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 8 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 =Sapling/Shrub Stratum (Plot size: 10m x 10m) 14 x 3 = FAC species 15 x 4 = 1. Gordonia lasianthus 10 **FACW** FACU species 60 Yes 2. Serenoa repens 15 Yes **FACU** UPL species 0 x 5 = 0 67 (A) (B) 3. llex glabra 10 Yes **FACW** Column Totals: 170 4. Prevalence Index = B/A = 2 54 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. 35 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Woodwardia virginica OBL 5 No ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Dichanthelium dichotomum 10 Yes FAC llex glabra 3. 10 Yes **FACW Definitions of Four Vegetation Strata:** 4 4 FAC Andropogon virginicus Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 3 more in diameter at breast height (DBH), regardless of 5. Lachnanthes caroliniana No OBL height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 32 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 16 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Yes X Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted. No woody vines observed in plot.

SOIL Sampling Point: W7-UD1

Profile Desc	ription: (Describe t	o the depth	needed to docu	ıment t	he indica	tor or co	onfirm the absence	of indica	ators.)		
Depth	Matrix			x Featur							
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Rem	arks	
0-8	10YR 2/1	40					Sandy	Remai	ning 60% un	masked 1	0YR 6/1
8-22	10YR 4/1	90			. <u></u>		Sandy		10% 10	YR 3/1	
					· 						
1 _{Tupo:} C=Co	ncentration, D=Deple		Paduaad Matrix N	49-Mas		Crains	² l ocation:	DI -Porc	Lining, M=N	Astrix	
	ndicators: (Applicat					I Gianis.			lematic Hy		3.
Histosol		716 to u	Thin Dark Su			S. T. U)			(LRR O)	1110 000	•
	ipedon (A2)	-	Barrier Island						(LRR S)		
Black His	. , ,	-	(MLRA 15		-	,		•	edox (A16)		
	n Sulfide (A4)		Loamy Muck			RR O)		side MLF	` ,		
	Layers (A5)		Loamy Gleye				Reduc	ed Vertic	(F18)		
Organic I	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outs	side MLF	RA 150A, 15)B)	
	cky Mineral (A7) (LR I		Redox Dark	Surface	(F6)		Piedm	ont Flood	lplain Soils (719) (LR ₽	₹ P, T)
	esence (A8) (LRR U)		Depleted Da					omalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre		(F8)		•	LRA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L			·			terial (F21)		
	rk Surface (A12)	. =	Depleted Oc						ark Surface	` '	
	airie Redox (A16) (M	-							RA 138, 152		-
	ucky Mineral (S1) (LI leved Matrix (S4)	KK U, S)	Umbric Surfa						Low Chroma	Matrix (i	57)
	leyed Matrix (S4) edox (S5)	-	Delta Ochric Reduced Ver					RA 153B, (Explain i	n Remarks)		
	Matrix (S6)	-	Piedmont Flo	•	, ,		· —	(Explain i	II Nomano,		
	face (S7) (LRR P, S,	T. U)	Anomalous E								
	e Below Surface (S8)	· ·	(MLRA 14	-	•	•	,	tors of hy	/drophytic ve	eaetation a	and
	S, T, U)		Very Shallow Dark Surface (F22)				wetland hydrology must be present,				
		-	(MLRA 13	(MLRA 138, 152A in FL, 154)				unless disturbed or problematic.			
Restrictive L	ayer (if observed):										
Type: I	None										
Depth (in	ches):						Hydric Soil Prese	ent?	Yes	No	x
Remarks:											
Area within th	ne plot is bedded and	furrowed. N	lo evidence of red	cent soil	l alteration	n.					



W7_UD1



Project/Site: Trail Ridge South	City/Co	ounty: Clay	Sampling Date: 1/30/19
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL	Sampling Point: W8-WD1
Investigator(s): B.McGee, N.Adams	Section, To	wnship, Range: 7, -7, 23	<u> </u>
Landform (hillside, terrace, etc.): Hillside		oncave, convex, none): none	Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 02' 23.9"W	Datum: WGS 84
		· · · · · · · · · · · · · · · · · · ·	ation: Wetland
Soil Map Unit Name: Allanton fine sand, frequ	·		
Are climatic / hydrologic conditions on the site			explain in Remarks.)
Are Vegetation, Soil, or Hydrold		Are "Normal Circumstances" presen	
Are Vegetation, Soil, or Hydrold	ogynaturally problematic?	(If needed, explain any answers in R	Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling	point locations, transects, in	mportant features, etc.
Hydrophytic Vegetation Present?	Yes X No Is the	Sampled Area	
		a Wetland? Yes X	No
,	Yes X No		
Remarks:			
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has bee asonal high water table resulting in v have been constructed perpendicul	en historically converted to pine plantat vetland vegetation within the furrow, ho ar to the slope per silviculture BMPs.	ion and has beds/furrows. In wever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cra	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	ns (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)
Water Marks (B1)	Oxidized Rhizospheres on Livin	g Roots (C3) Dry-Season Wat	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	s (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled	Soils (C6) Saturation Visible	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	ition (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	(D3)
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Tes	t (D5)
Water-Stained Leaves (B9)		X Sphagnum Moss	s (D8) (LRR T,U)
Field Observations:			
	No X Depth (inches):	_	
Water Table Present? Yes X	No Depth (inches):6	_	
Saturation Present? Yes X	No Depth (inches):0	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor Not available	itoring well, aerial photos, previous	inspections), if available:	
Remarks:			
The natural landform has been converted for	silviculture practices. Sphagnum	moss less that 1%	

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

ee Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Persea palustris	1	No	FACW	Number of Dominant Species		
Pinus palustris	1	No	FACU	That Are OBL, FACW, or FAC:	3	(A)
·				Total Number of Dominant		` ,
				Species Across All Strata:	3	(B)
				<u> </u>		` '
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0%	(A/B
				Prevalence Index worksheet:		
					ultiply by:	
	2	=Total Cover		OBL species 0 x 1 =	0	_
50% of total cover: 1		of total cover:	1	FACW species 51 x 2 =	102	_
pling/Shrub Stratum (Plot size: 10m x 10m)		J. 1010. 0070	<u> </u>	FAC species 15 x 3 =	45	_
Ilex cassine	5	No	FACW	FACU species 4 x 4 =	16	_
Ilex coriacea		No	FACW	UPL species 3 x 5 =	15	_
Vaccinium corymbosum	3	No	FACW	Column Totals: 73 (A)	178	— _{/F}
•	10			Prevalence Index = B/A =		— ^{(E}
Persea palustris Morella cerifera	10	Yes Yes	FACW FAC	Hydrophytic Vegetation Indicators:	2.44	
llex glabra	3	No No	FACW	1 - Rapid Test for Hydrophytic Ve	getation	
Lyonia lucida	1	No	<u>FACW</u>	X 2 - Dominance Test is >50%		
				X 3 - Prevalence Index is ≤3.0¹	. 1	
50% of total cover: 1		=Total Cover of total cover:		Problematic Hydrophytic Vegetati	on⁺ (Explair	n)
llex glabra	1	No	FACW	¹ Indicators of bydric soil and wotland	hydrology m	nuct
Ilex glabra Andropogon glomeratus Pteridium aquilinum	1 25 3	No Yes No	FACW FACW	¹ Indicators of hydric soil and wetland present, unless disturbed or problema Definitions of Four Vegetation Stra	atic.	nust
Andropogon glomeratus	25	Yes	FACW	present, unless disturbed or problema	ta:	
Andropogon glomeratus Pteridium aquilinum	25 3	Yes No	FACU FACU	present, unless disturbed or problema Definitions of Four Vegetation Stra Tree – Woody plants, excluding vines more in diameter at breast height (DB	ntic. ta: s, 3 in. (7.6 c	cm)
Andropogon glomeratus Pteridium aquilinum Rubus argutus	25 3 5	Yes No No	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Stra Tree – Woody plants, excluding vines	ntic. ta: s, 3 in. (7.6 c	cm)
Andropogon glomeratus Pteridium aquilinum Rubus argutus	25 3 5	Yes No No	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Stra Tree – Woody plants, excluding vines more in diameter at breast height (DB height.	atic. ta: s, 3 in. (7.6 c sH), regardle	cm) ess
Andropogon glomeratus Pteridium aquilinum Rubus argutus	25 3 5	Yes No No	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines more in diameter at breast height (DB height.	ta: 5, 3 in. (7.6 c 6H), regardle	cm) ess
Andropogon glomeratus Pteridium aquilinum Rubus argutus	25 3 5	Yes No No	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Stra Tree – Woody plants, excluding vines more in diameter at breast height (DB height.	ta: 5, 3 in. (7.6 c 6H), regardle	cm) ess
Andropogon glomeratus Pteridium aquilinum Rubus argutus	25 3 5	Yes No No	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines more in diameter at breast height (DB height.)	tatic. s, 3 in. (7.6 c H), regardle uding vines, ft (1 m) tall.	ess les
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp	25 3 5	Yes No No	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines height. Herb – All herbaceous (non-woody) p	tatic. ta: ta; ta; ta; ta; ta; ta; ta;	ess les
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp	25 3 5	Yes No No	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines more in diameter at breast height (DB height.)	tatic. ta: ta; ta; ta; ta; ta; ta; ta;	ess les
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp	25 3 5 3	Yes No No	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines height. Herb – All herbaceous (non-woody) p	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	cm) less
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp	25 3 5 3	Yes No No No Total Cover	FACW FACU FAC	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3.	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	cm) less
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp 50% of total cover:	25 3 5 3	Yes No No No	FACW FAC UPL	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3. Woody Vine – All woody vines greater	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	cm) ess
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp 50% of total cover: 19 ody Vine Stratum (Plot size: 10m x 10m)	25 3 5 3	Yes No No No Total Cover	FACW FAC UPL	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3. Woody Vine – All woody vines greater	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	cm) ess
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp 50% of total cover:	25 3 5 3	Yes No No No Total Cover	FACW FAC UPL	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3. Woody Vine – All woody vines greater	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	cm) less
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp 50% of total cover: 19 ody Vine Stratum (Plot size: 10m x 10m)	25 3 5 3	Yes No No No Total Cover	FACW FAC UPL	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3. Woody Vine – All woody vines greater	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	cm) less
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp 50% of total cover: 19 ody Vine Stratum (Plot size: 10m x 10m)	25 3 5 3	Yes No No No Total Cover	FACW FAC UPL	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3. Woody Vine – All woody vines greater	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	cm) less
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp 50% of total cover: 19 ody Vine Stratum (Plot size: 10m x 10m)	25 3 5 3	Yes No No No Total Cover	FACW FAC UPL	present, unless disturbed or problema Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3. Woody Vine – All woody vines greater	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	ess (less
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp 50% of total cover: 19 ody Vine Stratum (Plot size: 10m x 10m)	25 3 5 3 	Yes No No No Total Cover of total cover:	FACW FAC UPL	Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, exclution 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3. Woody Vine – All woody vines greate height. Hydrophytic	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	ess (less
Andropogon glomeratus Pteridium aquilinum Rubus argutus Cladonia sp 50% of total cover: 19 ody Vine Stratum (Plot size: 10m x 10m)	25 3 5 3 3 —————————————————————————————	Yes No No No Total Cover	FACW FAC UPL	Definitions of Four Vegetation Strat Tree – Woody plants, excluding vines more in diameter at breast height (DB height. Sapling/Shrub – Woody plants, exclution 3 in. DBH and greater than 3.28 Herb – All herbaceous (non-woody) pof size, and woody plants less than 3. Woody Vine – All woody vines greate height.	tatic. 3, 3 in. (7.6 cell), regardle uding vines, ft (1 m) tall. lants, regard	ess (less

US Army Corps of Engineers

SOIL Sampling Point: W8-WD1

		o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Color (moist)	<u></u> %	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Remarks			
0-4.5	10YR 2/1	80	Odioi (moist)	70	Турс		Sandy	Remaining 20% unmasked 10YR 6/1			
4.5-12	10YR 4/1	15	10YR 6/1	10			Sandy	Remaining soil unmasked 10YR 5/1			
4.5-12	10111 4/1		1011071			IVI	Salidy	Remaining soil unimasked 10110 3/1			
¹ Type: C=Co	ncentration, D=Deple	etion, RM:	=Reduced Matrix, M	 IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.			
	ndicators: (Applical							for Problematic Hydric Soils ³ :			
Histosol ((A1)		X Thin Dark Su	ırface (S	69) (LRR	S, T, U)	1 cm M	Muck (A9) (LRR O)			
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	Muck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)			
Hydrogen	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outs	side MLRA 150A, 150B)			
	cky Mineral (A7) (LR							ont Floodplain Soils (F19) (LRR P, T)			
	esence (A8) (LRR U)		Depleted Dai		` '			alous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)	(8.4.4)	Redox Depre		(F8)		•	RA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (LRR U)			. 454\		arent Material (F21)			
	rk Surface (A12)	I DA 4504		Depleted Ochric (F11) (MLRA 151)Very Shallow Dark Surface (F				(,			
	airie Redox (A16) (M ucky Mineral (S1) (Ll			Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A) Umbric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma N				Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)	(i(0, 3)	Delta Ochric	-				RA 153B, 153D)			
Sandy Re			Reduced Ver	. , .		•	•	Explain in Remarks)			
X Stripped I			Piedmont Flo	•	, ,		· —	_xpair iii remaile)			
	face (S7) (LRR P, S ,	T, U)	Anomalous E								
	Below Surface (S8)			-			•	tors of hydrophytic vegetation and			
(LRR S				(MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
			(MLRA 13	B, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
	None							40 V V N			
Depth (in	cnes):						Hydric Soil Prese	ent? Yes <u>X</u> No			
Remarks:	terminated at 12 incl	nos duo to	high water table.	No ovid	onco of r	ocont coi	Lattoration				
Soil boiling is	terrimated at 12 mci	ies due it	iligii water table. T	NO EVIU	ence or re	ecent soi	i alleration.				



W8_WD1



City/Count	y: Clay	Sampling Date: 1/30/19
ny FC, LLC	State:	FL Sampling Point: W8-UD1
Section, Towns	hip, Range: 7, -7, 23	
	· · · · · · · · · · · · · · · · · · ·	Slope (%): 0-1
•		Datum: WGS 84
		ssification: Upland
		(If no, explain in Remarks.)
ogysignificantly disturbed? A	re "Normal Circumstances" p	resent? Yes X No
ogynaturally problematic? (If	needed, explain any answer	rs in Remarks.)
site map showing sampling po	oint locations, transec	ts, important features, etc.
Yes X No Is the Sam	ınled Δrea	
		No _ X
Yes No X	-	
ring the prior week. The site has been hi easonal high water table resulting in wetla s have been constructed perpendicular to	storically converted to pine p ind vegetation within the furro the slope per silviculture BN	lantation and has beds/furrows. In ow, however upland plants remain
Presence of Reduced Iron (C4)	Surface So Sparsely V Drainage P Moss Trim Dry-Season Crayfish Bu S (C6) Saturation Geomorphi Shallow Aq X FAC-Neutri	al Test (D5) Moss (D8) (LRR T,U)
nitoring well aerial photos, previous insp	ections) if available:	
	,	
r silviculture practices.		
	Section, Towns Local relief (concast and provided in the furrows during abnormally within a Warren within the furrows during abnormally within the furrows during the properties of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): Initoring well, aerial photos, previous inspections and provided in the properties of the provided in the provi	Section, Township, Range: 7, -7, 23 Local relief (concave, convex, none): none 53A Lat: 29° 54' 25.3"N Long: -82° 02' 24.0"W dulating NWI cla 2 typical for this time of year? Yes X No ogy significantly disturbed? Are "Normal Circumstances" p ogy naturally problematic? (If needed, explain any answer site map showing sampling point locations, transect Yes X No Yes No X Ves No X The site has been historically converted to pine p sasonal high water table resulting in wetland vegetation within the furror shave been constructed perpendicular to the slope per silviculture BN ter within the furrows during abnormally wet periods. Secondary Indi Ed; check all that apply) Surface Sc Aquatic Fauna (B13) Sparsely V Hydrogen Sulfide Odor (C1) Moss Trim Oxidized Rhizospheres on Living Roots (C3) Dry-Seasol Presence of Reduced Iron (C4) Crayfish Bo Recent Iron Reduction in Tilled Soils (C6) Saturation Thin Muck Surface (C7) Geomorphi Other (Explain in Remarks) Shallow Ac Thin Muck Surface (C7) Geomorphi No X Depth (inches): No X Depth (inches): Wetland Hydrology Presentioring well, aerial photos, previous inspections), if available:

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

01 (((() () () () () () () ()	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
Pinus palustris	2	No No	FACU	Number of Dominant Species
Quercus geminata	15	Yes	UPL	That Are OBL, FACW, or FAC:4 (A)
				Total Number of Dominant
				Species Across All Strata: 5 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 80.0% (A/B
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	17	=Total Cover		OBL species15 x 1 =15
50% of total cover:	9 20%	6 of total cover:	4	FACW species 8 x 2 = 16
apling/Shrub Stratum (Plot size: 10m x 10m	.)			FAC species 36 x 3 = 108
llex glabra	5	Yes	FACW	FACU species12 x 4 =48
Morella cerifera	10	Yes	FAC	UPL species17
Persea palustris	3	No	FACW	Column Totals: 88 (A) 272 (B
				Prevalence Index = B/A = 3.09
				Hydrophytic Vegetation Indicators:
		·		1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
				1
	18	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:		-	4	Problematic Hydrophytic Vegetation' (Explain)
		=Total Cover 6 of total cover:	4	Problematic Hydrophytic Vegetation (Explain)
rb Stratum (Plot size: 10m x 10m)	9 20%	6 of total cover:		
rb Stratum (Plot size: 10m x 10m) Rubus argutus	9 20%	6 of total cover:	FAC	¹ Indicators of hydric soil and wetland hydrology must
rb Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon	9 20%	6 of total cover: Yes Yes	FAC OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
rb Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla	9 20% - 25 - 15 - 1	Yes Yes No	FAC OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
rb Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp	9 20% 25 15 1	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
rb Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla	9 20% - 25 - 15 - 1	Yes Yes No	FAC OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp	9 20% 25 15 1	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of
rb Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp	9 20% 25 15 1	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, les
Price Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp	9 20% 25 15 1	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height.
Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum	9 20% 25 15 1	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less
Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum	9 20% 25 15 1	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum	9 20% 25 15 1	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum	9 20% 25 15 1 10	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless theight. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Paricum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum	9 20% 25 15 1 10	Yes Yes No No No Total Cover	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Parb Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum 50% of total cover:	9 20% 25 15 1 10	Yes Yes No No	FAC OBL UPL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless theight. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Paris Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum	9 20% 25 15 1 10	Yes Yes No No No Total Cover	FAC OBL UPL UPL FACU	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Paris Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum	9 20% 25 15 1 10	Yes Yes No No No Total Cover	FAC OBL UPL UPL FACU	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum 50% of total cover:	9 20% 25 15 1 10 52 26 20%	Yes Yes No No No Total Cover of total cover:	FAC OBL UPL UPL FACU	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum 50% of total cover:	9 20% 25 15 1 10 52 26 20%	Yes Yes No No No Total Cover of total cover:	FAC OBL UPL UPL FACU	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Prib Stratum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum 50% of total cover:	9 20% 25 15 1 10 52 26 20%	Yes Yes No No No Total Cover of total cover:	FAC OBL UPL UPL FACU	Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless theight. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum 50% of total cover:	9 20% 25 15 1 10 52 26 20%	Yes Yes No No No Total Cover of total cover:	FAC OBL UPL UPL FACU	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
Paricum (Plot size: 10m x 10m) Rubus argutus Panicum hemitomon Opuntia pusilla Cladonia sp Pteridium aquilinum 0. 50% of total cover:	9 20% 25 15 1 10 52 26 20%	Yes Yes No No No Total Cover of total cover:	FAC OBL UPL UPL FACU	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in

SOIL Sampling Point: W8-UD1

	ription: (Describe t	o the depti				itor or co	onfirm the absence	of indicators	s.)
Depth (inches)	Color (moist)	 _	Color (moist)	x Featur %	res Type ¹	Loc ²	Texture		Remarks
0-2	10YR 2/1	55	Color (moist)		<u>туре</u>		Sandy	Remaining	45% unmasked 10YR 6/1
2-12	10YR 3/1						Sandy	Remaining	95% unmasked 10YR 6/1
								-	
¹ Type: C=Co	ncentration, D=Deple	etion, RM=F	Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lini	ing, M=Matrix.
Hydric Soil II	ndicators: (Applicat	ole to all Li	RRs, unless othe	rwise n	oted.)		Indicators	for Problem	atic Hydric Soils ³ :
Histosol ((A1)		Thin Dark St	urface (S	59) (LRR	S, T, U)	1 cm N	/luck (A9) (LF	RR O)
Histic Epi	ipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	12)	2 cm N	/luck (A10) (L	.RR S)
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox	(A16)
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outs	side MLRA 1	50A)
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18	8)
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outs	side MLRA 1	50A, 150B)
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark	Surface	(F6)		Piedme	ont Floodplair	n Soils (F19) (LRR P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ice (F7)		Anoma	alous Bright F	loodplain Soils (F20)
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		•	RA 153B)	
Depleted	Below Dark Surface	(A11)	Marl (F10) (I	RR U)			Red Pa	arent Material	l (F21)
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very S	hallow Dark S	Surface (F22)
Coast Pra	airie Redox (A16) (M	LRA 150A)	Iron-Mangan	ese Ma	sses (F12	2) (LRR (D, P, T) (outs	side MLRA 1	38, 152A in FL, 154)
	ucky Mineral (S1) (Li	RR O, S)	Umbric Surfa	ace (F13	B) (LRR P	P, T, U)			Chroma Matrix (TS7)
	eyed Matrix (S4)		Delta Ochric	. , .		•	•	RA 153B, 153	•
	edox (S5)		Reduced Ve	•	, ,		· —	Explain in Re	emarks)
··	Matrix (S6)		Piedmont Flo						
	face (S7) (LRR P, S,		Anomalous I	-					
	Below Surface (S8)		(MLRA 14						phytic vegetation and
(LRR S	s, T, U)		Very Shallov		,	,	wetland hydrology must be present,		
			(MLRA 13	8, 152A	in FL, 1	54)	unie	ss disturbed	or problematic.
	ayer (if observed): None								
Depth (in							Hydric Soil Pres	ent? Y	/es No_X_
Remarks:									
Soil boring is	terminated at 12 incl	nes due to l	high water table.	Area witl	hin the pl	ot is bedo	led and furrowed.		
No evidence	of recent soil alteration	on.							



W8_UD1



Project/Site: Trail Ridge South	City/Coun	ty: Bradford	Sampling Date: 11/29/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD2
Investigator(s): D.LeJeune, B. McGee	Section, Towns	ship, Range: 12, -7, 22	
Landform (hillside, terrace, etc.): depression	Local relief (conc	ave, convex, none): concave	Slope (%):2
Subregion (LRR or MLRA): LRR T, MLRA 15	· · · · · · · · · · · · · · · · · · ·	Long: -82° 02' 56.68"	Datum: WGS 84
Soil Map Unit Name: Meadowbrook and Allar	-		ation: Wetland
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes x No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrok	ogv significantly disturbed? A	Are "Normal Circumstances" present	
Are Vegetation, Soil, or Hydrok		If needed, explain any answers in R	
SUMMARY OF FINDINGS – Attach	<u> </u>		
			•
	Yes x No Is the San Yes x No within a V	npled Area Vetland?	No
l	Yes x No within a v	vetianu: 100 A	NO
Remarks:	100 <u>x</u> 110 <u> </u>		
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the set the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ring the prior week. The site has been he asonal high water table resuting in wetlanger been constructed perpendicular to the	istorically converted to pine plantation of the furrow, how the slope per silviculture BMPs. Since	on and has beds/furrows. In wever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all t <u>hat apply)</u>	Surface Soil Crac	
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres on Living Re		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soil		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	x Geomorphic Posi	ition (D2)
Iron Deposits (B5)	x Other (Explain in Remarks)	Shallow Aquitard	(D3)
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Tes	
Water-Stained Leaves (B9)		x Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes	No x Depth (inches):		
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)		<u> </u>	
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous insp	pections), if available:	
Remarks:			
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected tha	t during the wet season the water ta	able is present with in the top

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

VEGETATION (Four Strata) – Use scientifi		•		Sampling Point: W8-WD2
<u>Tree Stratum</u> (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Gordonia lasianthus	30	Yes	FACW	Number of Dominant Species
2. Persea palustris	20	Yes	FACW	That Are OBL, FACW, or FAC: 8 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 10 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
7.				Prevalence Index worksheet:
8.		•		Total % Cover of: Multiply by:
	50	=Total Cover		OBL species 12 x 1 = 12
50% of total cover: 25	20%	of total cover:	10	FACW species 69 x 2 = 138
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 26 x 3 = 78
1. Nyssa biflora	4	Yes	OBL	FACU species 13 x 4 = 52
Vaccinium corymbosum	2	No	FACW	UPL species 0 x 5 = 0
3. Ilex glabra	5	Yes	FACW	Column Totals: 120 (A) 280 (B)
Serenoa repens	3	Yes	FACU	Prevalence Index = B/A = 2.33
5.		- 100	17.00	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
o	14	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
500/ of total acres 7			2	Problematic Hydrophytic Vegetation (Explain)
1	20%	of total cover:	3	
Herb Stratum (Plot size: 10m x 10m)	40		E4.011	
1. Pteridium aquilinum	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be
Woodwardia virginica	8	Yes	OBL	present, unless disturbed or problematic.
3. Osmundastrum cinnamomeum	4	No	FACW	Definitions of Four Vegetation Strata:
4. Andropogon virginicus	10	Yes	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Scleria baldwinii	8	Yes	FACW	more in diameter at breast height (DBH), regardless of height.
6. <u>Dichanthelium dichotomum</u>	3	No	FAC	noight.
7. Rubus argutus	5	No	FAC	Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	48	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 24	20%	of total cover:	10	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Vitis rotundifolia	8	Yes	FAC	
2.				
3.				
4.				
5.				Undershide
	8	=Total Cover		Hydrophytic Vegetation
50% of total cover: 4	20%	of total cover:	2	Present? Yes X No
Remarks: (If observed, list morphological adaptation	s below)			
Planted Pinus elliottii makes up the canopy with 25%		included in cal	culations be	cause it was planted.

SOIL Sampling Point: W8-WD2

	ription: (Describe to	o the dep				ator or co	nfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 2/1	50	- (,				Sandy	4% 10YR 2/1 organic bodies, 46% 6/1 10YR 6/1 unmasked
6-16	10YR 2/1	80					Sandy	Remaining 20% unmasked 10YR 6/1
							<u>, </u>	
16-22	10YR 2/2	90					Sandy	Remaining 10% 10YR 2/1
¹Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Masl	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
	ndicators: (Applicat							for Problematic Hydric Soils ³ :
Histosol	(A1)		X Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm N	Muck (A9) (LRR O)
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)
	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	.RR O)	(out	side MLRA 150A)
	Layers (A5)		Loamy Gleye					ed Vertic (F18)
	Bodies (A6) (LRR, P,		Depleted Ma	` '			•	side MLRA 150A, 150B)
	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark		` '			ont Floodplain Soils (F19) (LRR P, T)
	esence (A8) (LRR U)		Depleted Da		` '			alous Bright Floodplain Soils (F20)
	ck (A9) (LRR P, T)	(411)	Redox Depre		(F8)		•	RA 153B)
	Below Dark Surface rk Surface (A12)	(A11)	Marl (F10) (L		1) (MI D	N 151\		arent Material (F21) hallow Dark Surface (F22)
	airie Redox (A16) (M	I DA 150A	Depleted Oc Iron-Mangan					side MLRA 138, 152A in FL, 154)
	ucky Mineral (S1) (LF		Umbric Surfa					Islands Low Chroma Matrix (TS7)
	leyed Matrix (S4)	0, 0,	Delta Ochric					RA 153B, 153D)
	edox (S5)		Reduced Ve				•	(Explain in Remarks)
	Matrix (S6)		Piedmont Flo	•	, ,			ζ,
	face (S7) (LRR P, S,	T, U)	Anomalous E	•	`	, ,	•	
	e Below Surface (S8)		(MLRA 14	-				tors of hydrophytic vegetation and
	S, T, U)		Very Shallow					and hydrology must be present,
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
	ayer (if observed):							
· -	None							
Depth (in	iches):						Hydric Soil Pres	ent? Yes <u>X</u> No
	ne plot is bedded and inches consisted of 4						2/1	



W8_WD2



Project/Site: Trail Ridge South	City/County	/: Bradford	Sampling Date: 11/29/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-UD2
Investigator(s): D.LeJeune, B. McGee	Section, Towns	nip, Range: 12, -7, 22	
Landform (hillside, terrace, etc.): terrace		ve, convex, none): none	Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 02' 57.05"	Datum: WGS 84
			
Soil Map Unit Name: Leon sand, 0 to 2 perce		NWI classifica	•
Are climatic / hydrologic conditions on the site	•		explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	ogysignificantly disturbed? Ar	e "Normal Circumstances" presen	t? Yes x No
Are Vegetation, Soil, or Hydrolo	ogynaturally problematic? (If	needed, explain any answers in R	emarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling po	int locations, transects, ir	nportant features, etc.
Liveline in the Manager Company	Vac v Na la the Core	mlad Amaa	
, , , ,	Yes X No Is the Sam Yes No X within a W		No. v
	Yes No x	- I es	No <u>x</u>
Remarks:	165 <u>X</u>		
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ing the prior week. The site has been his asonal high water table resuting in wetlar we been constructed perpendicular to the	torically converted to pine plantation of vegetation within the furrow, hower slope per silviculture BMPs. Since	on and has beds/furrows. In wever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	·
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Ro	ots (C3) Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Visible	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	ition (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Tes	` '
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes Nox
(includes capillary fringe) Describe Recorded Data (stream gauge, more	sitaring well periol photos provious inco	if available.	
Not available	illoring well, aerial photos, previous inspe	ections), if available:	
Trot available			
Remarks:			
The natural landform has been converted for	silviculture practices.		

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8-UD2 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 2 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 0 x 1 = 50% of total cover: **FACW** species 20% of total cover: x2 =Sapling/Shrub Stratum (Plot size: 10m x 10m) 2 x 3 = FAC species x 4 = 1. Gordonia lasianthus **FACW** FACU species 6 2. Serenoa repens 6 **FACU** UPL species 0 x 5 = 0 73 (A) (B) 3. llex glabra 40 Yes **FACW** Column Totals: 160 4. Prevalence Index = B/A = 2 19 5. **Hydrophytic Vegetation Indicators:** 6. X 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 56 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. llex glabra 15 ¹Indicators of hydric soil and wetland hydrology must be 2. present, unless disturbed or problematic. 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 15 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 50% of total cover: 8 20% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W8-UD2

	ription: (Describe t	o the depth				ator or co	onfirm the absenc	e of indic	cators.)		
Depth	Matrix			Featur		. 2	- .		_		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture			narks	
0-8	10YR 3/1	30					Sandy	Rema	aining 70% ur	ımasked 1	0YR 6/1
8-11	10YR 4/2	50					Sandy		Remaining 5	0% 10YR	6/1
11-22	10YR 5/2	80					Sandy		Remaining 2	0% 10YR	6/1
								_			
-								_			
1								_			
	ncentration, D=Deple					d Grains.			e Lining, M=		3
-	ndicators: (Applicat	ole to all Li				0 T III			blematic Hy	aric Soils	~:
Histosol (,		Thin Dark Su					-	9) (LRR O)		
	ipedon (A2)		Barrier Island			12)			10) (LRR S)		
Black His	n Sulfide (A4)		(MLRA 15: Loamy Muck			BB (A)			Redox (A16) . RA 150A)		
	Lavers (A5)		Loamy Gleye	•	. , .	.KK U)	•	ced Verti	•		
	Bodies (A6) (LRR, P,	T II)	Depleted Ma						.RA 150A, 15	ing)	
	cky Mineral (A7) (LR		Redox Dark				•	•	•	2 P T)	
	esence (A8) (LRR U)		Depleted Dai		` '		—— Piedmont Floodplain Soils (F19) (LR Anomalous Bright Floodplain Soils (F				
	ck (A9) (LRR P, T)		Redox Depre		` '		(MLRA 153B)				
	Below Dark Surface	(A11)	 Marl (F10) (L		,		Red Parent Material (F21)				
	rk Surface (A12)	,	Depleted Ocl		1) (MLR /	A 151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) (M	LRA 150A)	Iron-Mangan	ese Mas	sses (F1	2) (LRR (D, P, T) (outside MLRA 138, 152A in FL, 154)				54)
Sandy Mu	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrie	er Islands	Low Chroma	a Matrix (T	S7)
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (MLRA 15	1)	(MI	_RA 153E	3, 153D)		
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 1	50B) Other	r (Explain	in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	RA 149A)				
Dark Surf	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	20)				
	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indic	ators of h	nydrophytic v	egetation a	and
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	un	less distu	rbed or probl	ematic.	
	ayer (if observed):										
, , <u> </u>	None										
Depth (in	ches):						Hydric Soil Pre	sent?	Yes	No	X
Remarks:		£	Na		_144;_	_					
Area within th	e plot is bedded and	turrowed. I	No evidence of red	ent soil	alteratio	n.					



W8_UD2



Project/Site: Trail Ridge South	City/	County: Bradford	Sampling Date: 12/4/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_WD3
Investigator(s): B.McGee, N. Adams	Section, 1	Гоwnship, Range: 12, -7, 22	
Landform (hillside, terrace, etc.): depression	Local relief ((concave, convex, none): none	Slope (%): 0-2%
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 28.60"	 Datum:
Soil Map Unit Name: Mascotte sand, 0 to 2 p			cation: Wetland
Are climatic / hydrologic conditions on the site			, explain in Remarks.)
Are Vegetation, Soil, or Hydrol		Are "Normal Circumstances" preser	
Are Vegetation, Soil, or Hydrol		(If needed, explain any answers in	
SUMMARY OF FINDINGS – Attach	· <u></u>		•
Hydrophytic Vegetation Present?	Yes x No Is the	e Sampled Area	
		in a Wetland? Yes x	No
	Yes x No		
Remarks:			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of wat	ing the prior week. The site has be asonal high water table resuting in ve been constructed perpendicular	een historically converted to pine planta wetland vegetation within the furrow, ho r to the slope per silviculture BMPs. Sir	tion and has beds/furrows. In owever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicator	rs (minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Cra	
Surface Water (A1)	Aquatic Fauna (B13)		ated Concave Surface (B8)
x High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patter	
x Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Line	
Water Marks (B1)	Oxidized Rhizospheres on Livi		
Sediment Deposits (B2)	Presence of Reduced Iron (C4	— ·	
Drift Deposits (B3)	Recent Iron Reduction in Tilled	·	le on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	x Geomorphic Po	sition (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitar	
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Te	
Water-Stained Leaves (B9)		x Sphagnum Mos	s (D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes x	No Depth (inches): 8		
Saturation Present? Yes x	No Depth (inches):7	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previous	s inspections), if available:	
Remarks:			
The natural landform has been converted for	silviculture practices.		

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

	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:	
Persea palustris	2	No	FACW	Number of Dominant Species	
2				That Are OBL, FACW, or FAC: 3	(A)
3				Total Number of Dominant	
4				Species Across All Strata: 3	(B)
5				Percent of Dominant Species	
6				That Are OBL, FACW, or FAC: 100.0%	(A/B)
7				Prevalence Index worksheet:	
B				Total % Cover of: Multiply I	oy:
	2	=Total Cover		OBL species 22 x 1 = 2	2
50% of total cover:	1 20%	of total cover:	1	FACW species 39 x 2 = 7	8
Sapling/Shrub Stratum (Plot size: 10m x 10m)			FAC species 16 x 3 = 4	8
1. Lyonia lucida	<u>-</u> 5	No	FACW	FACU species 0 x 4 =)
2. Ilex glabra	30	Yes	FACW		0
3. Vaccinium corymbosum		No	FACW		68 (B)
4.				Prevalence Index = B/A = 2.0	` <i>'</i>
				Hydrophytic Vegetation Indicators:	<u> </u>
5. 5.		•		1 - Rapid Test for Hydrophytic Vegetation	'n
7.				X 2 - Dominance Test is >50%	
				X 3 - Prevalence Index is ≤3.0¹	
3.	37	=Total Cover			
500/ 51 1 1			•	Problematic Hydrophytic Vegetation (E.	хріаін)
50% of total cover:	19 20%	of total cover:	8		
1. Andropogon virginicus	15	Yes	FAC	¹ Indicators of hydric soil and wetland hydrolo	ogy must b
Andropogon virginicus Lachnanthes caroliniana	8	Yes	OBL	present, unless disturbed or problematic.	ogy must b
Andropogon virginicus Lachnanthes caroliniana Xyris	8 5	Yes No	OBL OBL	•	gy must b
Andropogon virginicus Lachnanthes caroliniana Xyris	8	Yes	OBL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in.	(7.6 cm) o
Andropogon virginicus Lachnanthes caroliniana Xyris Woodwardia virginica	8 5	Yes No	OBL OBL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), reg	(7.6 cm) o
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum	8 5 5	Yes No No	OBL OBL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in.	(7.6 cm) o
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis	8 5 5	Yes No No	OBL OBL OBL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight.	(7.6 cm) o gardless of
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa	8 5 5 1	Yes No No No No	OBL OBL OBL OBL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding v	(7.6 cm) o pardless of ines, less
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 6. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp.	8 5 5 1 1 2	Yes No No No No No No	OBL OBL OBL OBL OBL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight.	(7.6 cm) o pardless of ines, less
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum	8 5 5 1 1 2 4	Yes No No No No No No No No No	OBL OBL OBL OBL OBL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding with the model of the model of the model.	(7.6 cm) o gardless of ines, less) tall.
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum	8 5 5 1 1 2 4	Yes No No No No No No No No No	OBL OBL OBL OBL OBL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding with the sin. DBH and greater than 3.28 ft (1 m). Herb – All herbaceous (non-woody) plants, in	(7.6 cm) o gardless of ines, less tall.
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10.	8 5 5 1 1 2 4	Yes No No No No No No No No No	OBL OBL OBL OBL OBL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding with the model of the model of the model.	(7.6 cm) o gardless of ines, less tall.
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10.	8 5 5 1 1 2 4	Yes No No No No No No No No No	OBL OBL OBL OBL OBL UPL	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vines, 3 in. DBH and greater than 3.28 ft (1 m). Herb – All herbaceous (non-woody) plants, 1 of size, and woody plants less than 3.28 ft to	(7.6 cm) o gardless of ines, less) tall. regardless
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 110. 111.	8 5 5 1 1 2 4 1	Yes No No No No No No No No To No No To No	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding with the sin. DBH and greater than 3.28 ft (1 m). Herb – All herbaceous (non-woody) plants, in	(7.6 cm) o gardless of ines, less) tall. regardless
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10. 11. 12.	8 5 5 1 1 2 4 1	Yes No No No No No No No No No	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vines and in. DBH and greater than 3.28 ft (1 m) Herb – All herbaceous (non-woody) plants, rof size, and woody plants less than 3.28 ft to Woody Vine – All woody vines greater than	(7.6 cm) or gardless of ines, less) tall.
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10. 11. 12. 50% of total cover:	8 5 5 1 1 2 4 1	Yes No No No No No No No No To No No To No	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vines and in. DBH and greater than 3.28 ft (1 m) Herb – All herbaceous (non-woody) plants, rof size, and woody plants less than 3.28 ft to Woody Vine – All woody vines greater than	(7.6 cm) or gardless of ines, less) tall.
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1.	8 5 5 1 1 2 4 1	Yes No No No No No No No No To No No To No	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vines and in. DBH and greater than 3.28 ft (1 m) Herb – All herbaceous (non-woody) plants, rof size, and woody plants less than 3.28 ft to Woody Vine – All woody vines greater than	(7.6 cm) o gardless of ines, less) tall. regardless
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1.	8 5 5 1 1 2 4 1	Yes No No No No No No No No To No No To No	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vines and in. DBH and greater than 3.28 ft (1 m) Herb – All herbaceous (non-woody) plants, rof size, and woody plants less than 3.28 ft to Woody Vine – All woody vines greater than	(7.6 cm) o gardless of ines, less) tall. regardless
2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. 2.	8 5 5 1 1 2 4 1	Yes No No No No No No No No To No No To No	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vines and in. DBH and greater than 3.28 ft (1 m) Herb – All herbaceous (non-woody) plants, rof size, and woody plants less than 3.28 ft to Woody Vine – All woody vines greater than	(7.6 cm) or gardless of ines, less) tall.
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4.	8 5 5 1 1 2 4 1	Yes No No No No No No No No To No No To No	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vines and in. DBH and greater than 3.28 ft (1 m) Herb – All herbaceous (non-woody) plants, rof size, and woody plants less than 3.28 ft to Woody Vine – All woody vines greater than	(7.6 cm) or gardless of ines, less) tall.
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3.	8 5 5 1 1 2 4 1 1	Yes No No No No No No No To No To No No To No No To No No To	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vines and in. DBH and greater than 3.28 ft (1 m) Herb – All herbaceous (non-woody) plants, rof size, and woody plants less than 3.28 ft to Woody Vine – All woody vines greater than	(7.6 cm) or gardless of ines, less) tall.
1. Andropogon virginicus 2. Lachnanthes caroliniana 3. Xyris 4. Woodwardia virginica 5. Hypericum tetrapetalum 6. Osmunda spectabilis 7. Lycopodiella appressa 8. Cladonia sp. 9. Dichanthelium dichotomum 10. 11. 12. 50% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4.	8 5 5 1 1 2 4 1	Yes No No No No No No No No To No No To No	OBL OBL OBL OBL UPL FAC	present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), regheight. Sapling/Shrub – Woody plants, excluding vinent and a in. DBH and greater than 3.28 ft (1 million of size, and woody plants less than 3.28 ft to Woody Vine – All woody vines greater than height.	(7.6 cm) or gardless of ines, less) tall.

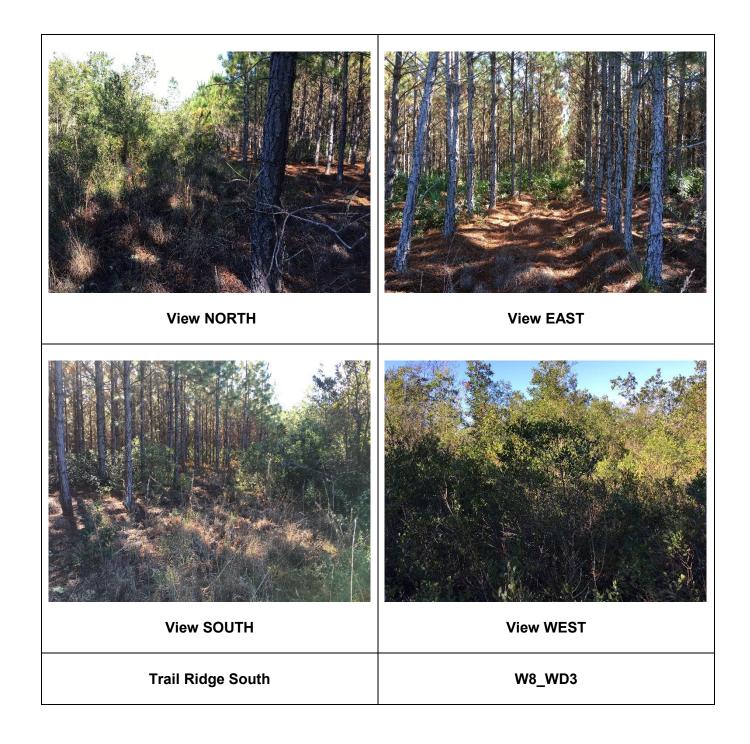
Planted Pinus elliottii makes up the canopy with 50% cover. Not included in calculations because it was planted. No woody vines observed in plot.

SOIL Sampling Point: W8_WD3

	ription: (Describe t	o the dep				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type ¹	Loc ²	Texture	Remarks		
0-4	10YR 2/1	80	Color (moist)	70	Туре	LOC	Sandy	Remaining 20% unmasked 10YR 6/1		
								Terrianning 20% unmasked 1011K 6/1		
4-22	10YR 2/1	70	10YR 4/1	30	D	<u>M</u>	Sandy	Stripping percent increases through soil profile		
			_							
1- 0.0							2, ,,			
	ncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :		
-	ndicators: (Applical	DIE TO AII I	x Thin Dark Su		•	e T II)		· · · · · · · · · · · · · · · · · · ·		
Histosol (ipedon (A2)		Barrier Island	•	, ,			Muck (A9) (LRR O) Muck (A10) (LRR S)		
Black His			(MLRA 15		-	12)				
	n Sulfide (A4)		Loamy Muck			DD ()	Coast Prairie Redox (A16) (outside MLRA 150A)			
	Layers (A5)		Loamy Gleye	•	` ',	.KK 0)	•	•		
	Bodies (A6) (LRR, P,	T 11\	Depleted Ma				Reduced Vertic (F18)			
	cky Mineral (A7) (LR		Redox Dark				(outside MLRA 150A, 150B)			
	esence (A8) (LRR U)	K P, 1, U)	Depleted Da		, ,		Piedmont Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre				(MLRA 153B)			
	Below Dark Surface	(Δ11)	Marl (F10) (L		(10)		Red Parent Material (F21)			
	rk Surface (A12)	(711)	Depleted Oc		1) (MI R /	۵ 151)	Very Shallow Dark Surface (F22)			
	airie Redox (A16) (M	I DA 150A								
	ucky Mineral (S1) (Li		Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)	0, 0,	Delta Ochric				(MLRA 153B, 153D)			
	edox (S5)		Reduced Ve							
x Stripped			Piedmont Flo	,	, ,			Explain in Nomano)		
	face (S7) (LRR P, S,	T U)	Anomalous I							
	e Below Surface (S8)		(MLRA 14	-				tors of hydrophytic vegetation and		
(LRR S			Very Shallow				wetland hydrology must be present,			
(=	., ., .,		(MLRA 13				unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type: 1	None									
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No		
Remarks:										
Area within th	e plot is bedded and	furrowed.	No evidence of re	cent soil	alteratio	n.				



W8_WD3



Project/Site: Trail Ridge South	City/County:	Bradford	Sampling Date: 12/4/18
Applicant/Owner: The Chemours Compa	ny FC, LLC	State: FL	Sampling Point: W8-UD3
Investigator(s): B. McGee, N. Adams	Section, Townshi	ip, Range: 12, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (concave	e, convex, none): none	Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15	`	Long: -82° 03' 27.65"	Datum: WGS 84
Soil Map Unit Name: Mascotte Sand, 0-2 per		NWI classificat	
Are climatic / hydrologic conditions on the site	e typical for this time of year?	es x No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrol	ogy significantly disturbed? Are	"Normal Circumstances" present	? Yes x No
Are Vegetation, Soil, or Hydrol		needed, explain any answers in Re	
SUMMARY OF FINDINGS – Attach			•
	Yes x No Is the Samp		
	Yes No x within a We		No <u>x</u>
	Yes x No		NO
Remarks:	<u> </u>		
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of wat	ring the prior week. The site has been histe easonal high water table resuting in wetland ave been constructed perpendicular to the	orically converted to pine plantation d vegetation within the furrow, how slope per silviculture BMPs. Since	on and has beds/furrows. In rever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Cracl	
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roo	ots (C3) Dry-Season Wate	r Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils ((C6) Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test	• •
Water-Stained Leaves (B9)		x Sphagnum Moss	(D8) (LRR T,U)
Field Observations: Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes	No x Depth (inches):		
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	YesX No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previous inspec	ctions), if available:	
Remarks:			
The natural landform has been converted for layer of duff. It is expected that during the w	, , ,	S .	

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8-UD3 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 3 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 3 x 3 = FAC species 9 20 x 4 = 1. Serenoa repens 20 **FACU** FACU species 80 Yes 2. Ilex glabra 10 Yes **FACW** UPL species 0 x 5 = 0 5 Column Totals: 46 (A) (B) 3. Ilex coriacea No **FACW** 132 4. Prevalence Index = B/A = 2 87 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. 35 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Ilex coriacea **FACW** Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Lachnanthes caroliniana 3 Yes OBL 2 3. Andropogon virginicus No FAC **Definitions of Four Vegetation Strata:** 4 1 Dichanthelium dichotomum FAC Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5. more in diameter at breast height (DBH), regardless of height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 11 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 6 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: Yes X 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliotti makes up the canopy with 80% cover. Not included in calculations because it was planted. No woody vines identified in the plot.

SOIL Sampling Point: W8-UD3

	ription: (Describe to	o the dept				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Rema	arks		
0-2	10YR 2/1	50	Color (molet)		Турс		Sandy	Remaining 50% unr			
2.7.5			_								
2-7.5	10YR 2/1						Sandy	80% 10YR 3/1, 10% u	nmasked 10YR 5/1		
7.5-23	10YR 2/1		10YR 6/1	10	<u>D</u>	<u>M</u>	Sandy	Remaining 959	% 10YR 3/1*		
-											
¹Type: C=Co	ncentration, D=Deple		Reduced Matrix M	 IS=Masl	ed San	d Grains	² l ocation:	PL=Pore Lining, M=M			
	ndicators: (Applicat					d Oranis.		for Problematic Hyd			
Histosol (Thin Dark Su			S, T, U)		/luck (A9) (LRR O)			
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)			
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)			
Hydroger	Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(out	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	(F2)		Reduc	ed Vertic (F18)			
	Bodies (A6) (LRR, P,		Depleted Ma	` ,			(outside MLRA 150A, 150B)				
	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark		` '			Piedmont Floodplain Soils (F19) (LRR P, T)			
	esence (A8) (LRR U)		Depleted Da		` ,		Anomalous Bright Floodplain Soils (F20)				
	ck (A9) (LRR P, T)	(4.44)	Redox Depre		(F8)		(MLRA 153B)				
	Below Dark Surface	(A11)	Marl (F10) (L Depleted Oc		1\ /MI D	A 4E4\	Red Parent Material (F21) Very Shallow Dark Surface (F22)				
	rk Surface (A12) airie Redox (A16) (M l	I DA 150A									
	ucky Mineral (S1) (LF		Umbric Surfa					· Islands Low Chroma			
	eyed Matrix (S4)	0, 0,	Delta Ochric				(MLRA 153B, 153D)				
	edox (S5)		Reduced Ve				•	(Explain in Remarks)			
	Matrix (S6)		Piedmont Flo	•	, ,		· —	(=			
	face (S7) (LRR P, S,	T, U)	Anomalous E								
Polyvalue	Below Surface (S8)		(MLRA 14	-				tors of hydrophytic ve	getation and		
(LRR S	s, T, U)		Very Shallow	/ Dark S	urface (F	- 22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
	None							.o. v			
Depth (in	cnes):						Hydric Soil Pres	ent? Yes	Nox		
	rcent increases dowr of recent soil alteratio		ugh soil profile. Ard	ea withir	the plot	is bedde	d and furrowed.				



W8_UD3



Project/Site: Trail Ridge South	C	ity/County: Bradford		Sampling Date: 12/4/18	
Applicant/Owner: The Chemours Compa	ny FC, LLC		State: FL	Sampling Point: W8-WD4	
Investigator(s): B. McGee, N. Adams	Sectio	n, Township, Range:	12, -7, 22		
Landform (hillside, terrace, etc.): terrace	Local reli	ief (concave, convex, r	none): none	Slope (%): 0	
Subregion (LRR or MLRA): LRR T, MLRA 15	53A Lat: 29° 53' 53.32"	Long: -8	2° 03' 35.87"	Datum: WGS 84	
Soil Map Unit Name: Mascotte sand, 0 to 2 p			NWI classifica	ition: Upland	
Are climatic / hydrologic conditions on the site	e typical for this time of year?	Yes x	No (If no, e	explain in Remarks.)	
Are Vegetation, Soil, or Hydrol			rcumstances" present		
Are Vegetation, Soil, or Hydrol	· · · · · · · · · · · · · · · · · · ·		lain any answers in Re		
SUMMARY OF FINDINGS – Attach			-		
, , , ,		the Sampled Area ithin a Wetland?	Yes x	No	
	Yes x No	Time a violana i	<u>×</u>	<u></u>	
Remarks:					
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site du some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of wat	ring the prior week. The site has easonal high water table resuting ave been constructed perpendic	s been historically con g in wetland vegetation ular to the slope per si	verted to pine plantation within the furrow, how	on and has beds/furrows. In vever upland plants remain on	
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)	
Primary Indicators (minimum of one is requir	red; check all that apply)		Surface Soil Crac	<u>.</u>	
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)	
High Water Table (A2)	Marl Deposits (B15) (LRR	U)	Drainage Patterns	s (B10)	
Saturation (A3)	Hydrogen Sulfide Odor (C1	1)	Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizospheres on	Living Roots (C3)	Dry-Season Wate	er Table (C2)	
Sediment Deposits (B2)	Presence of Reduced Iron	(C4)	Crayfish Burrows	(C8)	
Drift Deposits (B3)	Recent Iron Reduction in T	illed Soils (C6)	Saturation Visible	e on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posi		
Iron Deposits (B5)	X Other (Explain in Remarks)) _	Shallow Aquitard	,	
Inundation Visible on Aerial Imagery (B7	')		X FAC-Neutral Test		
Water-Stained Leaves (B9)		<u> </u>	Sphagnum Moss	(D8) (LRR T,U)	
Field Observations:	No Double (in deal)				
Surface Water Present? Yes Water Table Present? Yes x	No x Depth (inches):	10			
	No Depth (inches): Depth (inches):	18 15 Wetland H	Judralagy Brasant?	Voc. v. No.	
Saturation Present? Yes x (includes capillary fringe)	No Depth (inches):	welland F	lydrology Present?	Yes <u>x</u> No	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, prev	rious inspections), if av	ailable:		
Not available					
Remarks:					
The natural landform has been converted for 12 inches of the soil profile.	r silviculture practices. It is expe	cted that during the we	et season the water tab	ole is present with in the top	
·					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8-WD4 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 2 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 0 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 0 x 3 = FAC species x 4 = 1. llex glabra **FACW** FACU species 5 20 Yes x 5 = 2. Lyonia lucida 15 Yes **FACW** UPL species 0 0 2 34 (A) 3. No **FACW** Column Totals: 78 Vaccinium corymbosum (B) 4. Serenoa repens 5 Nο **FACU** Prevalence Index = B/A = 2 29 5. **Hydrophytic Vegetation Indicators:** 6. X 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. 30 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Lyonia lucida **FACW** ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. llex glabra **FACW** 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 4 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 2 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Yes X Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted. No woody vines observed with in the plot.

SOIL Sampling Point: W8-WD4

	ription: (Describe t	o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Remarks			
(inches)	Color (moist)		Color (moist)		Туре	LOC					
0-5	10YR 2/1	60	40)/5 0/4				Sandy	Remaining 40% unmasked 10YR 6/1			
5-14	10YR 3/1	85	10YR 6/1	15	<u>D</u>	<u>M</u>	Sandy				
14-20	10YR 2/1	100					Sandy	Spodic			
¹ Type: C=Co	ncentration, D=Deple	etion RM=	Reduced Matrix M	IS=Mas	ked Sand		² I ocation	PL=Pore Lining, M=Matrix.			
	ndicators: (Applicat					. 0.4		for Problematic Hydric Soils ³ :			
Histosol (Thin Dark Su			S. T. U)		Muck (A9) (LRR O)			
	ipedon (A2)		Barrier Island					Muck (A10) (LRR S)			
Black His			(MLRA 15			,		Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)			
	Layers (A5)		Loamy Gleye	•	· , ·	,	•	ed Vertic (F18)			
	Bodies (A6) (LRR, P,	T. U)	Depleted Ma					side MLRA 150A, 150B)			
	cky Mineral (A7) (LR I		Redox Dark				•	ont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	Depleted Da		, ,			alous Bright Floodplain Soils (F20)					
1 cm Muck (A9) (LRR P, T)			Redox Depre				(MLRA 153B)				
Depleted Below Dark Surface (A11)			 Marl (F10) (L		(- /		•	arent Material (F21)			
Thick Dark Surface (A12)			Depleted Oc		1) (MLRA	A 151)		hallow Dark Surface (F22)			
Coast Prairie Redox (A16) (MLRA 150A)								side MLRA 138, 152A in FL, 154)			
	ucky Mineral (S1) (LI		Umbric Surfa					Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)	, ,	Delta Ochric					RA 153B, 153D)			
Sandy Re			Reduced Ve					(Explain in Remarks)			
x Stripped			Piedmont Flo	•	, ,		· —	,			
	face (S7) (LRR P, S,	T, U)	Anomalous E								
	Below Surface (S8)		(MLRA 14	-			³ Indicators of hydrophytic vegetation and				
(LRR S				Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
·			(MLRA 13				unless disturbed or problematic.				
	ayer (if observed):										
· · -	None										
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No			
Remarks:	o platic baddad and	furrational	No ovidence of re-	ant anil	altaratio	.					
Area within th	e plot is bedded and	iurrowed.	no evidence of rec	cent soil	alteratio	n.					



W8_WD4



Project/Site: Trail Ridge South	City/Cc	ounty: Bradford	Sampling Date: 12/4/18			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State:	FL Sampling Point: W8-UD4			
Investigator(s): B. McGee, N. Adams	Section, To	wnship, Range: 12, -7, 22				
Landform (hillside, terrace, etc.): terrace		ncave, convex, none): convex	Slope (%): 0-1			
Subregion (LRR or MLRA): LRR T, MLRA 15	`	Long: -82° 03' 35.44"	Datum: WGS 84			
	<u>, </u>					
Soil Map Unit Name: Mascotte sand, 0-2 per	·		assification: Upland			
Are climatic / hydrologic conditions on the site			(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrole		Are "Normal Circumstances" p				
Are Vegetation, Soil, or Hydrole	ogynaturally problematic?	(If needed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach	site map showing sampling	point locations, transec	cts, important features, etc.			
Hydrophytic Vogotation Procent?	Yes No x Is the S	Sampled Area				
, , , ,			No x			
	Yes No x	a Wolland.	NO_ <u>X</u> _			
Remarks:						
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ring the prior week. The site has beer asonal high water table resuting in we ave been constructed perpendicular to	n historically converted to pine petland vegetation within the furroot the slope per silviculture BMPs	plantation and has beds/furrows. In ow, however upland plants remain on			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)			
Primary Indicators (minimum of one is require	ed: check all that apply)	<u></u>	oil Cracks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)		/egetated Concave Surface (B8)			
High Water Table (A2)		Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim	Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres on Living	Roots (C3) Dry-Seaso	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled S	· · ·	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position (D2) Shallow Aquitard (D3)			
Iron Deposits (B5)	Other (Explain in Remarks)		. , ,			
Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9))		ral Test (D5) n Moss (D8) (LRR T,U)			
Field Observations:		Opinagrium	T WOSS (DO) (ERR 1,0)			
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):	-				
Saturation Present? Yes	No x Depth (inches):	 Wetland Hydrology Pres 	sent? Yes No x			
(includes capillary fringe)		-				
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous in	nspections), if available:				
Remarks:						
The natural landform has been converted for	silviculture practices.					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8-UD4 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 10m x 10m) % Cover Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species x 1 = =Total Cover 50% of total cover: **FACW** species 20% of total cover: x2 =Sapling/Shrub Stratum (Plot size: 10m x 10m) 1 x 3 = FAC species 3 x 4 = 1. Serenoa repens **FACU FACU** species 58 232 Yes 2. Ilex glabra **FACW** UPL species 0 x 5 = 0 77 (A) (B) 3. Column Totals: 268 4. Prevalence Index = B/A = 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Lyonia ferruginea **FACU** Yes ¹Indicators of hydric soil and wetland hydrology must be Woodwardia virginica present, unless disturbed or problematic. 2. 3. **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 11 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 50% of total cover: 6 20% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus ellottii makes up the canopy with 80% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W8-UD4

		o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Ren	narks		
0-12	10YR 2/1	50	Odioi (moist)	70	Турс		Sandy		nmasked 10YR 6/1		
			10175 711						•		
12-20	10YR 3/1	5	10YR 7/1	5		M	Sandy	Remaining 9	10% 10YR 4/1		
					_	_					
¹ Type: C=Co	ncentration, D=Deple	etion. RM=	Reduced Matrix. N	 IS=Mas	ked Sand	Grains.	Location:	PL=Pore Lining, M=	Matrix.		
	ndicators: (Applicat							for Problematic Hy			
Histosol (Thin Dark Su			S, T, U)		luck (A9) (LRR O)			
	ipedon (A2)		Barrier Island					fuck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	(D)	•	Coast	Prairie Redox (A16)			
Hydrogen	Sulfide (A4)		Loamy Muck			.RR O)		side MLRA 150A)			
	Layers (A5)		Loamy Gleye	ed Matri	x (F2)	,	Reduce	ed Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma		, ,			side MLRA 150A, 1	50B)		
	cky Mineral (A7) (LRI	Redox Dark				Piedmo	ont Floodplain Soils	(F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)	Depleted Da	rk Surfa	ice (F7)		Anomalous Bright Floodplain Soils (F20)					
1 cm Muck (A9) (LRR P, T)			Redox Depre	essions	(F8)		(MLF	RA 153B)			
Depleted Below Dark Surface (A11)			Marl (F10) (L	.RR U)			Red Pa	arent Material (F21)			
Thick Dar	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very S	hallow Dark Surface	(F22)		
Coast Pra	airie Redox (A16) (M	LRA 150A	Iron-Mangan	Iron-Manganese Masses (F12) (LRR 0				side MLRA 138, 152	:A in FL, 154)		
Sandy Mu	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chrom	a Matrix (TS7)		
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	51)	(MLF	(MLRA 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ve	rtic (F18	B) (MLRA	150A, 1	50B) Other (Explain in Remarks))		
Stripped I	Matrix (S6)		Piedmont Flo	Piedmont Floodplain Soils (F19) (MLRA 149A)							
Dark Surf	face (S7) (LRR P, S ,	T, U)	Anomalous I	Bright Fl	loodplain	Soils (F2	(0)				
Polyvalue	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D))	³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow	Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: N	None										
Depth (in	ches):						Hydric Soil Prese	ent? Yes	Nox		
Remarks: Area within th	e plot is bedded and	furrowed.	No evidence of re	cent soi	l alteratio	n.	-				



W8_UD4



Applicant/Ounier The Chemours Company FC, LLC State FL Sampling Point W8 WIDS Investigator(s): B. MicSeo N. Adams Section, Township, Range 12, 7, 22 Section, Ra	Project/Site: Trail Ridge South	City/Co	ounty: Bradford	Sampling Date: 12/4/18
Landform (hillside, terrace, etc.): terrace	Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_WD5
Landform (hillside, terrace, etc.): terrace	Investigator(s): B.McGee, N. Adams	Section, To	wnship, Range: 12, -7, 22	<u> </u>
Subregion (LRR or MLRA): LRR T, MLRA 153A Lat: 29° 53° 51.44" Long: 48° 03° 24.22° Datum: WGS 84 Soil Map Unit Name: Sapelo sand Are dimatic / hydrologic conditions on the site typical for this time of year? Yes_X_No			·	Slope (%): 0
Soil Map Unit Name: Sapelo sand Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation	`	`	, <u> </u>	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present?		<u> </u>		
Are Vegetation, Soil, or Hydrology	Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrology	Are Vegetation , Soil , or Hydrold	ogy significantly disturbed?		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No within a Wetland? Yes X No within a Wetland Barbara within the furows during a wetland. Yes X No within a Wetland Barbara within the furows during which a wetland? Yes X No within a Wetland A Wetland Barbara within the furows during which are a Yes X No within a Wetland Yes X No	· · · · · · · · · · · · · · · · · · ·			
Hydric Soil Present? Wetland Hydrology Present? Yes X No within a Wetland? Wetland Hydrology Present? Remarks: Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has bedsfurrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation withe furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of two required) Surface Water (A1) Surface Soil Cracks (B6) High Water Table (A2) Mari Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Sediment Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Water-Stained Leaves (B9) Find Observations: Surface Water Present? Yes No Other (Explain in Remarks) Sphagnum Moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): Surface Soil or acks Wetland Hydrology Present? Yes No Depth (inches): Surface Soil or acks Wetland Hydrology Present? Yes No Depth (inches): Surface Soil or Cate the firm furrows are constructed prependicular to the slope per silviculture practices. It is expected that during the wet season the water table is present with in the top	<u> </u>			
Hydric Soil Present? Wetland Hydrology Present? Yes X No within a Wetland? Wetland Hydrology Present? Remarks: Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has bedsfurrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation withe furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of two required) Surface Water (A1) Surface Soil Cracks (B6) High Water Table (A2) Mari Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Sediment Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Water-Stained Leaves (B9) Find Observations: Surface Water Present? Yes No Other (Explain in Remarks) Sphagnum Moss (D8) (LRR T, U) Wetland Hydrology Present? Yes No Depth (inches): Surface Soil or acks Wetland Hydrology Present? Yes No Depth (inches): Surface Soil or acks Wetland Hydrology Present? Yes No Depth (inches): Surface Soil or Cate the firm furrows are constructed prependicular to the slope per silviculture practices. It is expected that during the wet season the water table is present with in the top	Hydrophytic Vegetation Present?	Yes X No Is the S	Sampled Area	
Remarks: Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators:	1			No
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B2) Presence of Reduced Iron (C4) Agal Mat or Crust (B4) Inon Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Inon Deposits (B5) Vother (Explain in Remarks) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water-Stained Leaves (B9) Field Observations: Water Table Present? Yes No X Depth (inches): Water Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	l ·			· · · · · · · · · · · · · · · · · · ·
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U) Saturation (A3) Hydrogen Sulfide Odor (C1) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B2) Presence of Reduced Iron (C4) Agal Mat or Crust (B4) Inon Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Inon Deposits (B5) Vother (Explain in Remarks) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water-Stained Leaves (B9) Field Observations: Water Table Present? Yes No X Depth (inches): Water Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Remarks:			
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) X FAC-Neutral Test (D5) Water-Stained Leaves (B9) No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): <t< td=""><td>inches of rainfall was recorded at the site duri some areas the furrows may intercept the sea the bed. Beds and furrows in some areas ha</td><td>ing the prior week. The site has been asonal high water table resuting in we ve been constructed perpendicular to</td><td>n historically converted to pine plantation etland vegetation within the furrow, ho to the slope per silviculture BMPs. Sino</td><td>on and has beds/furrows. In wever upland plants remain on</td></t<>	inches of rainfall was recorded at the site duri some areas the furrows may intercept the sea the bed. Beds and furrows in some areas ha	ing the prior week. The site has been asonal high water table resuting in we ve been constructed perpendicular to	n historically converted to pine plantation etland vegetation within the furrow, ho to the slope per silviculture BMPs. Sino	on and has beds/furrows. In wever upland plants remain on
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	HYDROLOGY			
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Wetland Hydrology Indicators:		Secondary Indicators	s (minimum of two required)
Surface Water (A1)		ed; check all t <u>hat apply)</u>	·	
High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top				
Saturation (A3)				
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) X FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T,U) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Source Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	l 			
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) X FAC-Neutral Test (D5) Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T,U) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	l 			
Algal Mat or Crust (B4)	Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	s (C8)
Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Inundation Visible on Aerial Imagery (B7) Wetland Hydrology Present? Yes X No The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Drift Deposits (B3)	Recent Iron Reduction in Tilled S	Soils (C6) Saturation Visibl	e on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Inundation Visible on Aerial Imagery (B7) Wetland Hydrology Present? Yes X No Depth (inches): Wetland Hydrology Present? Yes X No Depth (inches): Inundation Visible on Aerial Imagery (B7) Wetland Hydrology Present? Yes X No Depth (inches): Wetland Hydrology Present? Yes X No Dep	Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	sition (D2)
Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	i (D3)
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Inundation Visible on Aerial Imagery (B7)	,	X FAC-Neutral Tes	st (D5)
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Water-Stained Leaves (B9)		Sphagnum Moss	s (D8) (LRR T,U)
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): 19 Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Field Observations:			
Saturation Present? Yes X No Depth (inches): 19 Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Surface Water Present? Yes	No X Depth (inches):	_	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Water Table Present? Yes	No X Depth (inches):	<u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Saturation Present? Yes X	No Depth (inches): 19	Wetland Hydrology Present?	Yes <u>X</u> No
Not available Remarks: The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	(includes capillary fringe)		<u> </u>	
The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	, , ,	nitoring well, aerial photos, previous i	nspections), if available:	
The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with in the top	Pomorke:			
	The natural landform has been converted for	silviculture practices. It is expected the	hat during the wet season the water ta	able is present with in the top

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8 WD5 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 7 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 85.7% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 4 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 0 x 3 = FAC species 0 10 x 4 = 1. Serenoa repens 10 **FACU** FACU species Yes x 5 = 2. Ilex glabra 8 Yes **FACW** UPL species 0 0 5 34 (A) 3. Lyonia lucida Yes **FACW** Column Totals: 84 (B) 4. Prevalence Index = B/A = 2 47 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. 23 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Lyonia lucida **FACW** Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Lachnanthes caroliniana 2 Yes OBL llex glabra 2 3. Yes **FACW Definitions of Four Vegetation Strata:** 4 2 Woodwardia virginica Yes OBL Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5. more in diameter at breast height (DBH), regardless of height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 11 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 6 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Yes X Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines were identified within

the plot.

SOIL Sampling Point: W8_WD5

		o the dept				ator or co	onfirm the absence	of indicators.)		
Depth	Matrix	0/		Feature		1 2	Tarabrasa	Damada		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-2	10YR 2/1	60					Sandy	Remaining soil unmasked 10YR 6/1		
2-5.5	10YR 2/1	95					Sandy	Remaining soil unmasked 10YR 6/1		
5.5-20	10YR 4/1	80	10YR 5/1	20	D	M	Sandy			
¹ Type: C=Co	ncentration, D=Deple		·Poducod Matrix M		od San		² Location:	PL=Pore Lining, M=Matrix.		
	ndicators: (Applicat					Giailis.		for Problematic Hydric Soils ³ :		
Histosol (510 to un E	X Thin Dark Su		•	S T U)		luck (A9) (LRR O)		
	pedon (A2)		Barrier Island	,				luck (A10) (LRR S)		
Black His			(MLRA 153		-	,		Prairie Redox (A16)		
	Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)		
	Layers (A5)		Loamy Gleye	•	· , ·	,	•	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	T. U)	Depleted Mat					side MLRA 150A, 150B)		
	cky Mineral (A7) (LR I		Redox Dark S				•	ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)	, , -,	Depleted Dar					lous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)	Redox Depre				(MLRA 153B)				
Depleted Below Dark Surface (A11)			Marl (F10) (L		,		Red Pa	rent Material (F21)		
Thick Dark Surface (A12)			Depleted Och		1) (MLR A	A 151)	Very SI	hallow Dark Surface (F22)		
Coast Prairie Redox (A16) (MLRA 150A)				-			D, P, T) (outs	ide MLRA 138, 152A in FL, 154)		
Sandy Mu	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier	Islands Low Chroma Matrix (TS7)		
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	1)	(MLR	RA 153B, 153D)		
Sandy Re	edox (S5)		Reduced Ver	Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)						
X Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)			
Dark Surf	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Flo	oodplain	Soils (F2	0)			
Polyvalue	Below Surface (S8)		(MLRA 149	(MLRA 149A, 153C, 153D)				³ Indicators of hydrophytic vegetation and		
(LRR S	s, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,			
			(MLRA 138	B, 152A	in FL, 1	54)	unless disturbed or problematic.			
	ayer (if observed):									
· · · -	None						Ukadaia Cail Dasas	Was V Na		
Depth (in	cnes):						Hydric Soil Prese	ent? Yes X No No		
Remarks:	a platia baddad and	furrowed	No ovidence of rea	ont onil	altaratio	-				
Area within th	e plot is bedded and	iurrowed.	No evidence of rec	ent son	alteratio	11.				



W8_WD5



Project/Site: Trail Ridge South	City/Count	y: Bradford	Sampling Date: 12/4/18		
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_UD5		
Investigator(s): B. McGee, N. Adams	Section, Towns	ship, Range: <u>12, -7, 22</u>			
Landform (hillside, terrace, etc.): terrace	Local relief (conca	ave, convex, none): none	Slope (%):1		
Subregion (LRR or MLRA): LRR T, MLRA 15	•	Long: -82° 03' 23.78"	Datum: WGS 84		
Soil Map Unit Name: Sapelo sand		NWI classifica			
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	explain in Remarks.)		
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed? A	re "Normal Circumstances" present	t? Yes X No		
Are Vegetation, Soil, or Hydrole		f needed, explain any answers in R			
SUMMARY OF FINDINGS – Attach			•		
Hydrophytic Vegetation Present?	Yes No X Is the Sam				
	Yes No X within a W		No X		
	Yes X No				
Remarks:					
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ring the prior week. The site has been his easonal high water table resuting in wetlar ave been constructed perpendicular to the	storically converted to pine plantation of vegetation within the furrow, how a slope per silviculture BMPs. Since	on and has beds/furrows. In wever upland plants remain on		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	<u> </u>		
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizospheres on Living Ro	oots (C3) Dry-Season Wate	er Table (C2)		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)		
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	Saturation Visible	e on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	ition (D2)		
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard			
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test			
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)		
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes X No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, moi Not available	nitoring well, aerial photos, previous insp	ections), if available:			
Remarks:					
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected that	during the wet season the water tal	ble is present with in the top		

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8 UD5 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 5 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 10 x 3 = FAC species 30 50 x 4 = 1. **FACU** FACU species 200 Serenoa repens Yes x 5 = 2. Vaccinium corymbosum 2 No **FACW** UPL species 5 25 Column Totals: 85 (A) (B) 3. llex glabra 8 No **FACW** 290 4. Lyonia lucida 5 Nο **FACW** Prevalence Index = B/A = 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 65 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Lachnanthes caroliniana OBL Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Andropogon virginicus 8 Yes FAC 5 3. Cladonia sp. Yes UPL **Definitions of Four Vegetation Strata:** 4 2 Dichanthelium dichotomum FAC Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5. more in diameter at breast height (DBH), regardless of height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 20 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 50% of total cover: 10 20% of total cover: Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No X Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 60% cover. Not included in calculations because it was planted. No woody vines were identified within the plot.

SOIL Sampling Point: W8_UD5

Profile Desci	ription: (Describe t	to the dept	h needed to docu	ment th	ne indica	ator or co	onfirm the absence	of indicators.)		
Depth	Matrix			Featur						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Ren	narks	
0-3	10YR 2/1	40					Sandy	Remaining soil ur	nmasked 10YR 6/1	
3-7	10YR 2/1	40					Sandy	Remaining soil ur	nmasked 10YR 5/1	
7-9	10YR 3/1	90	10YR 5/1	10	D	M	Sandy			
9-20	10YR 4/1	60	10YR 6/1	40	<u>D</u>	M	Sandy			
1 0 0							2,		<u> </u>	
	ncentration, D=Depl					d Grains.		PL=Pore Lining, M=		
-	ndicators: (Applica	DIE TO AII L				0 T III		for Problematic Hy	aric Solis":	
— Histosol (,		Thin Dark Su					luck (A9) (LRR O)		
	ipedon (A2)		Barrier Island		•	12)		luck (A10) (LRR S)		
Black His	` '		(MLRA 15					Prairie Redox (A16)		
	Sulfide (A4)		Loamy Muck	,	` '	.RR ()	•	side MLRA 150A)		
	Layers (A5)		Loamy Gleye		` '			ed Vertic (F18)		
	Bodies (A6) (LRR, P		Depleted Mar	` ,			•	side MLRA 150A, 15	•	
	cky Mineral (A7) (LR		Redox Dark S		` '			ont Floodplain Soils		
	esence (A8) (LRR U)		Depleted Dar		` ,			lous Bright Floodpla	in Soils (F20)	
	ck (A9) (LRR P, T)		Redox Depre		(F8)		(MLRA 153B)			
Depleted	Marl (F10) (L					arent Material (F21)				
Thick Dark Surface (A12)			Depleted Ocl					hallow Dark Surface	,	
	airie Redox (A16) (M		· 					side MLRA 138, 152	•	
	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa					Islands Low Chroma	a Matrix (TS7)	
	eyed Matrix (S4)		Delta Ochric				•	RA 153B, 153D)		
	edox (S5)		Reduced Ver	•	, ,		· — `	Explain in Remarks))	
	Matrix (S6)		Piedmont Flo							
	face (S7) (LRR P, S		Anomalous E	-		•	,			
	e Below Surface (S8))	(MLRA 149				³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow		•	,	wetland hydrology must be present,			
			(MLRA 138	B, 152A	in FL, 1	54)	unle	ss disturbed or prob	ematic.	
Restrictive L	ayer (if observed):									
Type: 1										
Depth (in	cnes):						Hydric Soil Prese	ent? Yes	No <u>X</u>	
Remarks:										
Area within th	e plot is bedded and	d furrowed.	No evidence of rec	ent soil	alteratio	n.				



W8_UD5



Project/Site: Trail Ridge South	City/County	/: Bradford	Sampling Date: 12/4/18		
Applicant/Owner: The Chemours Compa	ny FC, LLC	State: FL	Sampling Point: W8_WD6		
Investigator(s): B. McGee, N. Adams	Section, Townsl	hip, Range: 12, -7, 22			
Landform (hillside, terrace, etc.): depression	nLocal relief (conca	ve, convex, none): concave	Slope (%):2		
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 14.21"	Datum: WGS 84		
Soil Map Unit Name: Sapelo sand		NWI classifica			
Are climatic / hydrologic conditions on the site	e typical for this time of year?		explain in Remarks.)		
Are Vegetation, Soil, or Hydrol		re "Normal Circumstances" present			
Are Vegetation, Soil, or Hydrol		needed, explain any answers in Re			
SUMMARY OF FINDINGS – Attach					
Hydrophytic Vegetation Present?	Yes X No Is the Sam	pled Area			
, , , ,	Yes X No within a W		No		
I	Yes X No				
Remarks: Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dui some areas the furrows may intercept the se the bed. Beds and furrows in some areas had cross slope, this can result in ponding of wat	ring the prior week. The site has been his easonal high water table resuting in wetlar ave been constructed perpendicular to the	torically converted to pine plantation of vegetation within the furrow, how a slope per silviculture BMPs. Since	on and has beds/furrows. In vever upland plants remain on		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is requir	red; check all that apply)	Surface Soil Crac	<u> </u>		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)		
Water Marks (B1)	Oxidized Rhizospheres on Living Ro	ots (C3) Dry-Season Wate	er Table (C2)		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)		
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils		Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Posi	X Geomorphic Position (D2)		
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard			
Inundation Visible on Aerial Imagery (B7		X FAC-Neutral Test			
Water-Stained Leaves (B9)	•	X Sphagnum Moss			
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes X No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previous inspe	ections), if available:			
Remarks:					
The natural landform has been converted for 12 inches of the soil profile. Sphagnum moss	•	•			
12 inches of the soil profile. Spriagrant moss	s consisted of 0-5% cover and is located to	on the sides and bottom of the fund	JWS.		

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8 WD6 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 66.7% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 59 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 5 x 3 = FAC species 15 x 4 = 1. **FACU** FACU species 8 32 Serenoa repens Yes x 5 = 2. Vaccinium corymbosum 5 No **FACW** UPL species 0 0 Column Totals: 96 (A) 3. llex glabra 10 Yes **FACW** 154 (B) 4. Lyonia lucida 5 No **FACW** Prevalence Index = B/A = 1.60 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. 28 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 14 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Panicum hemitomon OBL No ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Scleria baldwinii 1 No **FACW** 3. Woodwardia virginica 50 Yes OBL **Definitions of Four Vegetation Strata:** 3 4 Woodwardia areolata No OBL Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. 5 Nο FAC Andropogon virginicus height. **FACW** 6. Osmundastrum cinnamomeum 3 No 7. 3 OBL Lachnanthes caroliniana No Sapling/Shrub - Woody plants, excluding vines, less OBL 8. Xyris elliottii No than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10. Herb - All herbaceous (non-woody) plants, regardless 11. of size, and woody plants less than 3.28 ft tall. 68 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 34 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic**

Remarks: (If observed, list morphological adaptations below.)

50% of total cover:

Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted.

=Total Cover

20% of total cover:

Vegetation

Present?

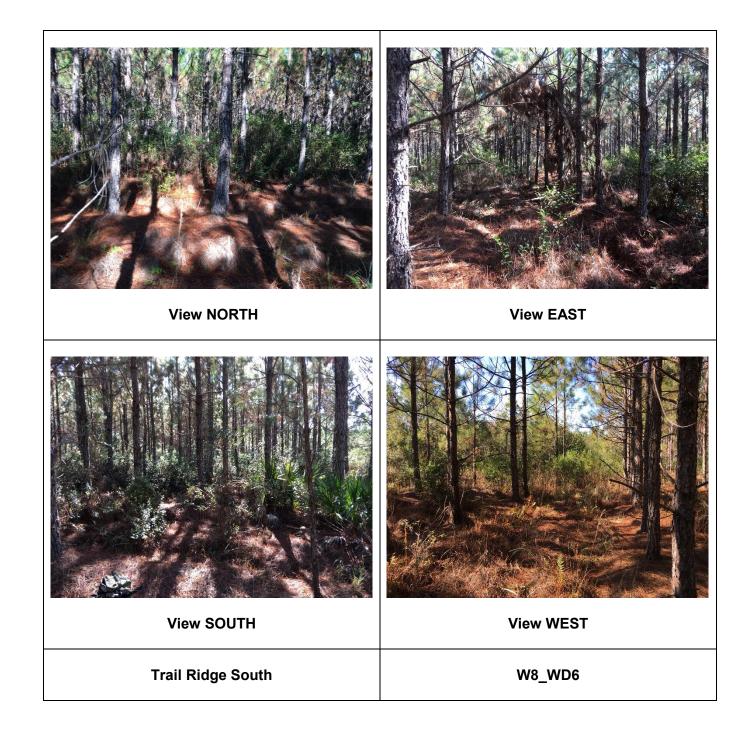
No

SOIL Sampling Point: W8_WD6

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	0/		k Featur		1.002	Toyturo	Domonico		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-4	10YR 2/1	60					Sandy	Remaining soil unmasked 10YR 5/1		
4-17	10YR 2/1	85	10YR 5/1	15	<u>D</u>	<u>M</u>	Sandy	Depletions increase to 25% at 17 inches		
17-22	10YR 3/1	100					Sandy			
1Typo: C=Co	ncentration, D=Deple		-Poducod Matrix M		kod Sand		² Location:	PL=Pore Lining, M=Matrix.		
	ndicators: (Applicat					Giailis.		for Problematic Hydric Soils ³ :		
Histosol (Jie to all L	X Thin Dark Su		•	S T II)		luck (A9) (LRR O)		
	pedon (A2)		Barrier Island					luck (A10) (LRR S)		
Black His			(MLRA 15		-	12)		Prairie Redox (A16)		
	Sulfide (A4)		Loamy Muck			RR (I)		side MLRA 150A)		
	Layers (A5)		Loamy Gleye	•	· , ·	.itit 0)	•	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	T II)	Depleted Ma					side MLRA 150A, 150B)		
	cky Mineral (A7) (LR		Redox Dark				•	ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)	K 1 , 1, 0,	Depleted Dai		, ,			lous Bright Floodplain Soils (F20)		
		Redox Depre				(MLRA 153B)				
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11)			Marl (F10) (L		(10)		•	arent Material (F21)		
Thick Dark Surface (A11)			Depleted Oc		1) (MI RA	A 151)		hallow Dark Surface (F22)		
	airie Redox (A16) (M	I RA 150A		-				side MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (Li		Umbric Surfa		,	, ,	, , ,	Islands Low Chroma Matrix (TS7)		
	eyed Matrix (S4)	0, 0,		Delta Ochric (F17) (MLRA 151)				RA 153B, 153D)		
Sandy Re			Reduced Ver							
X Stripped I			Piedmont Flo	•	, ,		· — `	Explain in Fremance)		
	face (S7) (LRR P, S ,	T U)	Anomalous E							
	Below Surface (S8)		(MLRA 14	-				tors of hydrophytic vegetation and		
(LRR S			Very Shallow				wetland hydrology must be present,			
(=:	,, ., .,		(MLRA 13				unless disturbed or problematic.			
Restrictive L	ayer (if observed):						I			
Type: N	lone									
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No		
Remarks:		£	No ordina o of a	4 !!	14 4					
Area within th	e plot is bedded and	furrowed.	No evidence of rec	cent soil	alteratio	n.				



W8_WD6



Project/Site: Trail Ridge South	City/County	r: Bradford	Sampling Date: 12/4/18			
Applicant/Owner: The Chemours Compa	ny FC, LLC	State: FL	Sampling Point: W8_UD6			
Investigator(s): B.McGee, N. Adams	Section, Townsh	nip, Range: 12, -7, 22				
Landform (hillside, terrace, etc.): terrace	Local relief (concav	ve, convex, none): none	Slope (%):2			
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 13.16"	Datum: WGS 84			
Soil Map Unit Name: Leon sand, 0-2 percent		NWI classifica				
Are climatic / hydrologic conditions on the site			explain in Remarks.)			
Are Vegetation, Soil, or Hydrol	,,	e "Normal Circumstances" present				
Are Vegetation, Soil, or Hydrol		needed, explain any answers in Re				
SUMMARY OF FINDINGS – Attach		•	•			
Hydrophytic Vegetation Present?	Yes X No Is the Sam	oled Area				
	Yes No X within a We		No X			
-	Yes X No					
Remarks: Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas had cross slope, this can result in ponding of wat	ring the prior week. The site has been hist easonal high water table resuting in wetlan ave been constructed perpendicular to the	torically converted to pine plantation divegetation within the furrow, how slope per silviculture BMPs. Since	n and has beds/furrows. In vever upland plants remain on			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Crac	<u> </u>			
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)			
Water Marks (B1)	Oxidized Rhizospheres on Living Roo	ots (C3) Dry-Season Wate	er Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard				
Inundation Visible on Aerial Imagery (B7		X FAC-Neutral Test				
Water-Stained Leaves (B9)	•	Sphagnum Moss				
Field Observations:		<u>-</u>	_			
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previous inspe	ections), if available:				
Remarks: The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected that o	luring the wet season the water tab	ole is present within the top			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8 UD6 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 5 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 80.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 8 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) x 3 = FAC species 12 x 4 = 1. llex cassine 10 **FACW** FACU species 5 20 Yes x 5 = 2. Ilex glabra 10 Yes **FACW** UPL species 0 0 5 Column Totals: 43 (A) 3. Vaccinium corymbosum Yes **FACW** 92 (B) 4. Prevalence Index = B/A = 2 14 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 25 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Andropogon virginicus FAC No ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Lachnanthes caroliniana 3 No OBL 3. Woodwardia virginica 5 Yes OBL **Definitions of Four Vegetation Strata:** 1 4 Dichanthelium dichotomum No FAC Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 5 **FACU** more in diameter at breast height (DBH), regardless of 5. Pteridium aquilinum Yes height. **FACW** 6. Osmundastrum cinnamomeum 1 No 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 18 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 9 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines were identified within the plot.

SOIL Sampling Point: W8_UD6

		o the dept				ator or co	onfirm the absence	of indicators.)			
Depth	Matrix	0/		Feature		1 - 2	T 4				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		emarks		
0-3.5	10YR 2/1	40					Sandy		unmasked 10YR 5/1		
3.5-8.5	10YR 2/1	60					Sandy	Remaining soil	unmasked 10YR 4/1		
8.5-22	10YR 2/1	90	10YR 4/1	10	D	M	Sandy	Depletions incre	ease throughout profile		
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ced Sand	d Grains.		PL=Pore Lining, N			
Hydric Soil Ir	ndicators: (Applicat	ole to all L	RRs, unless other	rwise n	oted.)		Indicators	for Problematic	Hydric Soils ³ :		
Histosol (A1)		Thin Dark Su	rface (S	9) (LRR	S, T, U)	1 cm N	Muck (A9) (LRR O)		
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR \$	3)		
Black His	tic (A3)		(MLRA 153	3B, 153I	D)		Coast	Prairie Redox (A1	8)		
Hydrogen	Sulfide (A4)		Loamy Mucky	y Minera	al (F1) (L	.RR O)	(outs	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduc	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(outs	side MLRA 150A,	150B)		
5 cm Muc	ky Mineral (A7) (LRI	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floodplain Soi	ls (F19) (LRR P, T)		
Muck Pre	sence (A8) (LRR U)	Depleted Dar	k Surfac	ce (F7)		Anomalous Bright Floodplain Soils (F20)					
1 cm Muc	k (A9) (LRR P, T)	Redox Depre	ssions ((F8)		(MLRA 153B)					
Depleted Below Dark Surface (A11)			Marl (F10) (L	RR U)			Red Pa	arent Material (F2	1)		
Thick Dark Surface (A12)			Depleted Och	nric (F11	1) (MLR A	A 151)	Very S	hallow Dark Surfa	ce (F22)		
Coast Pra	airie Redox (A16) (M	LRA 150A) Iron-Mangane	ese Mas	ses (F12	2) (LRR C	D, P, T) (outs	side MLRA 138, 1	52A in FL, 154)		
Sandy Mu	ıcky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier	Islands Low Chro	ma Matrix (TS7)		
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	1)	(MLRA 153B, 153D)				
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 15	Other (Explain in Remarl	ks)		
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Surf	ace (S7) (LRR P, S,	T, U)	Anomalous B	Bright Flo	oodplain	Soils (F2	0)				
Polyvalue	Below Surface (S8)		(MLRA 149	9A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S				Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
			(MLRA 138				unless disturbed or problematic.				
	ayer (if observed):										
-	lone										
Depth (in	ches):						Hydric Soil Prese	ent? Yes _	No <u>X</u>		
Remarks:											
Area within th	e plot is bedded and	furrowed.	No evidence of rec	ent soil	alteratio	n.					



W8_UD6



Project/Site: Trail Ridge South	City/	County: Bradford	Sampling Date: 12/5/18						
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD7						
Investigator(s): B.McGee and N.Adams Section, Township, Range: 12, -7, 22									
Landform (hillside, terrace, etc.): depression		(concave, convex, none): concave	Slope (%): 0-1						
Subregion (LRR or MLRA): LRR T, MLRA 15	•	Long: -82° 03' 20.68"	Datum: WGS 84						
Soil Map Unit Name: Sapelo Sand			cation: Upland						
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no	o, explain in Remarks.)						
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed?	Are "Normal Circumstances" prese	nt? Yes X No						
Are Vegetation, Soil, or Hydrole		(If needed, explain any answers in							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present?	Yes X No Is the	e Sampled Area							
1		in a Wetland? Yes X	No						
1	Yes X No								
Remarks:									
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows have dominantly been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.									
HYDROLOGY									
Wetland Hydrology Indicators:		Secondary Indicator	rs (minimum of two required)						
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Cra							
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)						
X High Water Table (A2)	Marl Deposits (B15) (LRR U)								
X Saturation (A3)	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)						
Water Marks (B1)	Oxidized Rhizospheres on Liv	ring Roots (C3) Dry-Season Wa	Dry-Season Water Table (C2)						
Sediment Deposits (B2)	Presence of Reduced Iron (C4	4) Crayfish Burrow	Crayfish Burrows (C8)						
Drift Deposits (B3)	Recent Iron Reduction in Tille	d Soils (C6) Saturation Visib	Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Po							
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitar							
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Te	, ,						
Water-Stained Leaves (B9)		X Sphagnum Mos	ss (D8) (LRR T,U)						
Field Observations:									
Surface Water Present? Yes	No X Depth (inches):								
Water Table Present? Yes X	No Depth (inches): 8								
Saturation Present? Yes X	No Depth (inches):0	Wetland Hydrology Present?	Yes X No						
(includes capillary fringe)									
Describe Recorded Data (stream gauge, moi Not available	nitoring well, aerial photos, previou	is inspections), if available:							
Remarks:									
The natural landform has been converted for	silviculture practices. Sphagnum	moss 5% located at the bottom of the fo	urrows.						
	,								

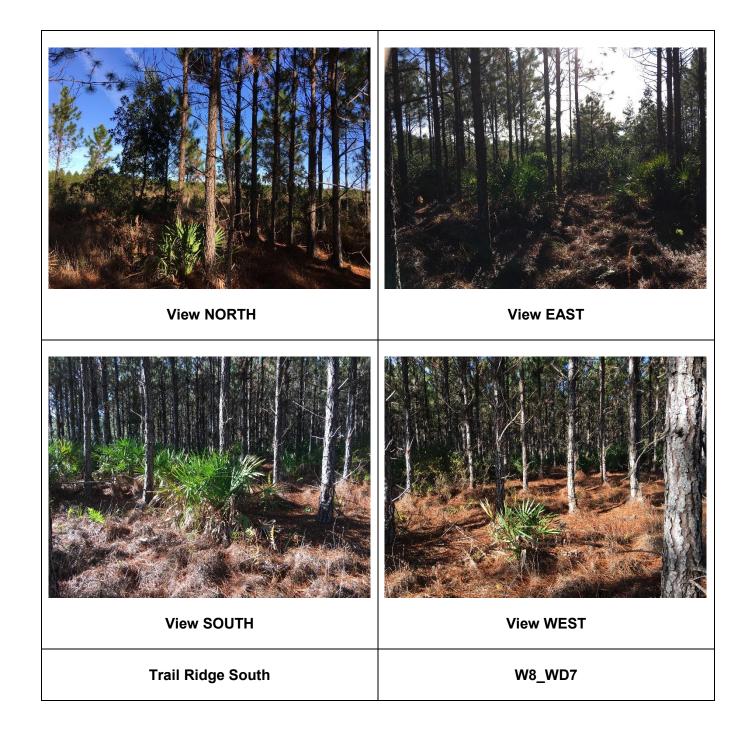
VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8-WD7 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 66.7% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species 40 ___ x 1 = =Total Cover 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: 10m x 10m) 1 x 3 = FAC species 3 x 4 = 1. Persea palustris **FACW** FACU species 10 Yes x 5 = 2. Serenoa repens UPL species 1 5 64 (A) (B) 3. 112 Column Totals: 4. Prevalence Index = B/A = 1.75 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. 15 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Osmundastrum cinnamomeum 5 **FACW** No ¹Indicators of hydric soil and wetland hydrology must be 40 present, unless disturbed or problematic. 2. Woodwardia virginica Yes OBL 2 3. Persea palustris No **FACW Definitions of Four Vegetation Strata:** Cladonia sp. 4 1 UPI Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. Dichanthelium dichotomum 1 No FAC height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 49 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 25 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines were observed in the plot.

SOIL Sampling Point: W8-WD7

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%		x Featur %		Loc ²	Toyturo	Domarko		
(inches)	Color (moist)		Color (moist)		Type ¹	Loc	Texture	Remarks		
0-5.5	10YR 2/1	95	40\/D.0/4				Sandy	Remaining soil unmasked 10YR 5/1		
5.5-17	10YR 4/1	60	10YR 6/1	20	<u>D</u>	M	Sandy	Remaining soil unmasked 10YR 5/1		
17-22	10YR 2/1	100					Sandy	Spodic		
			_							
-										
1 _{Tyme} , C=Ce	 ncentration, D=Deple		-Daduard Matrix A		Lead Cone	Crains	² l costion	DI = Dara Lining M=Matrix		
	ndicators: (Applicat					Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :		
Histosol (Jie to all i	X Thin Dark Su			S T III		uck (A9) (LRR O)		
	pedon (A2)		Barrier Island					uck (A10) (LRR S)		
Black His			(MLRA 15		-	,	Coast Prairie Redox (A16)			
	Sulfide (A4)		Loamy Muck			RR O)	(outside MLRA 150A)			
	Layers (A5)		Loamy Gleye	•	· , ·	-,	Reduced Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma					ide MLRA 150A, 150B)		
	ky Mineral (A7) (LRI		Redox Dark	Surface	(F6)		Piedmont Floodplain Soils (F19) (LRR P, T)			
			Depleted Da	ed Dark Surface (F7)			Anomalous Bright Floodplain Soils (F20)			
1 cm Muck (A9) (LRR P, T)			Redox Depre	Redox Depressions (F8)			(MLRA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	Marl (F10) (LRR U)			Red Parent Material (F21)			
Thick Dar	k Surface (A12)		Depleted Oc	hric (F1	11) (MLRA 151) Very S			nallow Dark Surface (F22)		
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Ma				ese Mas	sses (F12	2) (LRR (
Sandy Mucky Mineral (S1) (LRR O, S)				Umbric Surface (F13) (LRR P, T, U)				Barrier Islands Low Chroma Matrix (TS7)		
Sandy Gleyed Matrix (S4)				Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)		
Sandy Redox (S5)			Reduced Ve	•	, .		· — `	Explain in Remarks)		
X Stripped I	` ,		Piedmont Flo							
X Dark Surface (S7) (LRR P, S, T, U)				Anomalous Bright Floodplain Soils (F20						
Polyvalue Below Surface (S8)			(MLRA 149A, 153C, 153D)			³ Indicators of hydrophytic vegetation and				
(LRR S, T, U)			Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154)				wetland hydrology must be present, unless disturbed or problematic.			
Restrictive L	ayer (if observed):		(-,		,		as alstanzou en prozionitation		
Type: N	lone									
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No		
Remarks:										
Area within the plot is bedded and furrowed. No evidence of recent soil alteration.										



W8_WD7



Project/Site: Trail Ridge South	City/County: Bradf	ford Sampling Date: 12/5/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W8-UD7				
Investigator(s): B.McGee, N.Adams	Section, Township, Rar	nge: 12, -7, 22				
Landform (hillside, terrace, etc.): terrace	Local relief (concave, con	vex, none): convex Slope (%): 0-1				
Subregion (LRR or MLRA): LRR T, MLRA 15		ng: -82° 03' 22.40" Datum: WGS 84				
Soil Map Unit Name: Starke muck fine sand,		NWI classification: Upland				
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrok	ogy significantly disturbed? Are "Norn	nal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrok	· · · · · · · · · · · · · · · · · · ·	d, explain any answers in Remarks.)				
		cations, transects, important features, etc.				
Hydrophytic Vegetation Present?	Yes No X Is the Sampled Ar	rea				
	Yes No X within a Wetland?					
Wetland Hydrology Present?	Yes X No					
Remarks: Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows have dominantly been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)				
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes X	No Depth (inches):14					
Saturation Present? Yes X	No Depth (inches):12	and Hydrology Present? Yes X No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspections)	, if available:				
Remarks:						
The natural landform has been converted for	silviculture practices.					

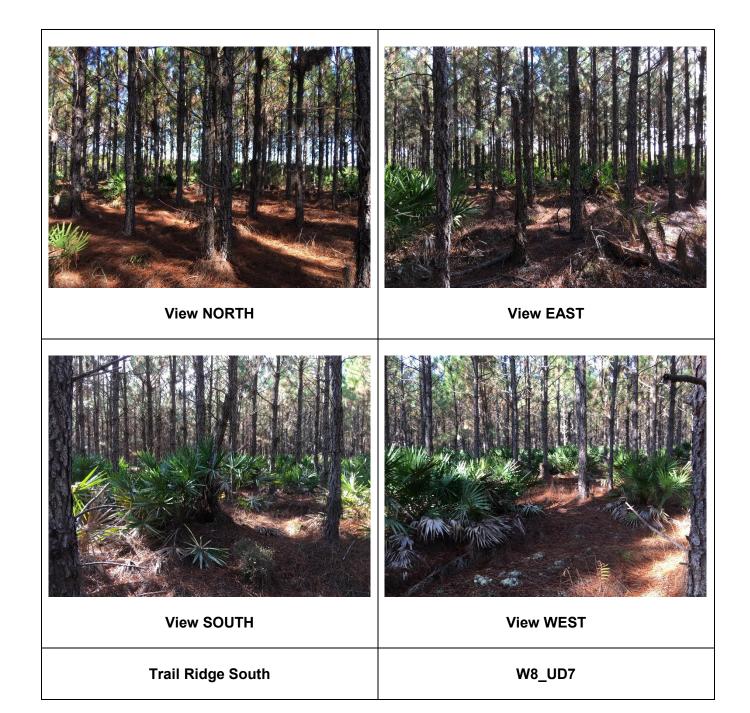
VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8-UD7 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 3 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 3 x 1 = 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: 10m x 10m) 2 x 3 = FAC species 6 x 4 = 1. Serenoa repens **FACU** FACU species 55 220 Yes 2. Lyonia ferruginea 5 UPL species 8 x 5 = 40 68 (A) (B) 3. Column Totals: 269 4. Prevalence Index = B/A = 3.96 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. 45 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Pteridium aquilinum **FACU** Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Lachnanthes caroliniana 2 No OBL 2 3. No **FACU Definitions of Four Vegetation Strata:** Serenoa repens 4 1 No OBL Woodwardia virginica Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 2 more in diameter at breast height (DBH), regardless of 5. Dichanthelium dichotomum No FAC height. Yes Cladonia sp. UPL 6. 8 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 23 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 12 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No X Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted. No woody vines observed in plot.

SOIL Sampling Point: W8-UD7

	ription: (Describe to	o the dep				ator or co	onfirm the absence	of indicators.)		
Depth	Matrix	0/		Feature		1 2	Tarduna	-)	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0-4	10YR 2/1	50					Sandy		6 unmasked 10YR 6/1	
4-7	10YR 3/1	90					Sandy		6 unmasked 10YR 4/1	
7-22	10YR 3/1	75	10YR 5/1	25	<u>D</u>	<u>M</u>	Sandy	Stripping increa	ses downward through	
								the	soil profile	
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ked Sand	d Grains.		PL=Pore Lining,		
Hydric Soil In	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic	Hydric Soils ³ :	
Histosol (A1)		Thin Dark Su	rface (S	9) (LRR	S, T, U)	1 cm N	/luck (A9) (LRR C))	
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR	S)	
Black His	tic (A3)		(MLRA 15	3B, 153I	D)		Coast	Prairie Redox (A1	6)	
Hydroger	Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	.RR O)	(outs	side MLRA 150A)	
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	(F2)		Reduc	ed Vertic (F18)		
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(outs	side MLRA 150A	, 150B)	
5 cm Mud	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark S	Surface	(F6)		Piedme	ont Floodplain So	ils (F19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfac	ce (F7)		Anoma	alous Bright Flood	plain Soils (F20)	
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLRA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Parent Material (F21)			
Thick Dar	rk Surface (A12)		Depleted Oct	nric (F11	1) (MLR	A 151)	Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A)Iron-Mangan	ese Mas	sses (F12	2) (LRR C	D, P, T) (outs	side MLRA 138, 1	I52A in FL, 154)	
Sandy Mu	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)			
Sandy GI	eyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	1)	(MLRA 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 15	Other ((Explain in Remai	ks)	
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)			
	face (S7) (LRR P, S,		Anomalous E	-						
	Below Surface (S8)		(MLRA 149					tors of hydrophyti	•	
(LRR S	s, T, U)		Very Shallow				wetland hydrology must be present,			
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.			
	ayer (if observed):									
Type: <u>N</u> Depth (in	lone						Hydric Soil Pres	ent? Yes	No X	
Remarks:							Trydric Con Tres	ent: res_	<u> </u>	
	e plot is bedded and	furrowed	No evidence of re	cent soil	l alteratio	nn				
Alca Willin th	e plot is bedded and	iuiiowcu.	140 CVIGCTICE OF IC	CCITE SOI	ancian	711.				



W8_UD7



Project/Site: Trail Ridge South	City/Cour	nty: Bradford	Sampling Date: 11/1/18			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD8			
Investigator(s): D. LeJeune, B. Mcgee, N. Ada	amsSection, Towr	nship, Range: <u>13, -7, 22</u>				
Landform (hillside, terrace, etc.): terrace	Local relief (cond	cave, convex, none): none	Slope (%): 0-1			
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 21.19"	Datum: WGS 84			
Soil Map Unit Name: Sapelo sand	<u> </u>	NWI classifica				
Are climatic / hydrologic conditions on the site	tvoical for this time of year?		explain in Remarks.)			
Are Vegetation, Soil, or Hydrold		Are "Normal Circumstances" present				
Are Vegetation, Soil, or Hydrold		(If needed, explain any answers in R				
SUMMARY OF FINDINGS – Attach						
Hydrophytic Vegetation Present?	Yes x No Is the Sa	mpled Area				
		Wetland? Yes x	No			
Wetland Hydrology Present?	Yes x No					
Remarks: Rainfall conditions for Bradford County were slightly below average for October and are 3.07 inches above average for the prior 12 months. No measurable rain fell during the week leading up to the site visit. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetat	ted Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	s (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)			
Water Marks (B1)	Oxidized Rhizospheres on Living F	Roots (C3) Dry-Season Wate	er Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled So	ils (C6) Saturation Visible	e on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	ition (D2)			
Iron Deposits (B5)	x Other (Explain in Remarks)	Shallow Aquitard	` '			
Inundation Visible on Aerial Imagery (B7))	x FAC-Neutral Test	` '			
Water-Stained Leaves (B9)		x Sphagnum Moss	(D8) (LRR T,U)			
Field Observations:	,					
Surface Water Present? Yes	No x Depth (inches):					
	No x Depth (inches):	No. 11 Institute was Break and O	V V Na			
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes <u>X</u> No			
(includes capillary fringe)	-it-ries well essiel photos provious ins	if available:				
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial priotos, previous ins	pections), ii avaiiabie.				
Remarks:						
The natural landform has been converted for		at during the wet season the water tal	ble present in the top 12			
inches of the soil profile. Sphagnum moss loc	cated on top of the furrows.					

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8-WD8 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species 47 ___ x 1 = =Total Cover 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: 10m x 10m) x 3 = FAC species 2 x 4 = 1. Persea palustris **FACW** FACU species 2 8 Yes x 5 = 2. Serenoa repens 2 Yes **FACU** UPL species 0 0 Column Totals: 58 (A) 3. Vaccinium corymbosum 5 Yes **FACW** 75 (B) 4. Prevalence Index = B/A = 1 29 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Woodwardia virginica OBL Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Dichanthelium dichotomum 1 No FAC 2 3. Lachnanthes caroliniana No OBL **Definitions of Four Vegetation Strata:** 4 1 FAC Andropogon virginicus Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 49 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 25 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Yes X Remarks: (If observed, list morphological adaptations below.)

Planted Pinus elliotti makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines identified in the plot.

SOIL Sampling Point: W8-WD8

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%		k Featur %		Loc ²	Touture	Domonto		
(inches)	Color (moist)		Color (moist)	70	Type ¹	LOC	Texture	Remarks		
0-4.5	10YR 2/1						Sandy	Remaining soil unmasked 10YR 6/1		
4.5-18	10YR 4/1	90	10YR 5/1	10	<u>D</u>	<u>M</u>	Sandy			
18-20	10YR 2/1	100					Sandy	Spodic		
			_							
1 _{Tymes} C=Ce	ncentration, D=Deple		-Daduard Matrix N		Lead Cone	Crains	² l costion	DI - Doro Lining M-Matrix		
	ncentration, D=Depte					Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :		
Histosol (Jie to ali t				8 T II)		<u>-</u>		
	pedon (A2)		Thin Dark Su Barrier Island					luck (A9) (LRR O) luck (A10) (LRR S)		
Black His			(MLRA 15			12)		Prairie Redox (A16)		
	` ,		Loamy Muck			BB (A)		side MLRA 150A)		
	Sulfide (A4)			•	· , ·	.KK U)	•	,		
	Layers (A5)	T 11\	Loamy Gleye					ed Vertic (F18)		
	Bodies (A6) (LRR, P,		Depleted Ma	` '			•	side MLRA 150A, 150B)		
	cky Mineral (A7) (LR	K P, I, U)			` '			ont Floodplain Soils (F19) (LRR P, T) lous Bright Floodplain Soils (F20)		
	esence (A8) (LRR U)		Depleted Da Redox Depre					RA 153B)		
	ck (A9) (LRR P, T) Below Dark Surface	(A11)	Marl (F10) (L		(10)		•	Red Parent Material (F21)		
	rk Surface (A12)	(A11)	Depleted Oc		1) /MI D/	\ 151\	Very Shallow Dark Surface (F22)			
	airie Redox (A16) (M	I DA 150A								
	ucky Mineral (S1) (Li		Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)	(i(0, 3)	Delta Ochric					RA 153B, 153D)		
Sandy Re			Reduced Ve					Explain in Remarks)		
X Stripped	` ,		Piedmont Flo	•	, ,		· — `	Explain in Nemarks)		
	face (S7) (LRR P, S,	T II)	Anomalous E							
	Below Surface (S8)		(MLRA 14	-				tors of hydrophytic vegetation and		
(LRR S			Very Shallow				wetland hydrology must be present,			
(LITT C	,, 1, 0,		(MLRA 13				unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type: N	None									
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No No		
Remarks:										
Area within th	e plot is bedded and	furrowed.	No evidence of red	cent alte	eration.					



W8_WD8



Project/Site: Trail Ridge South	City/County: Bra	adford Sampling Date: 11/1/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W8_UD8				
Investigator(s): D. LeJune, B.McGee, N. Adar	ms Section, Township, R	Range: 13, -7, 22				
Landform (hillside, terrace, etc.): terrace	Local relief (concave, co					
Subregion (LRR or MLRA): LRR T, MLRA 15	•	Long: -82° 03' 22.13" Datum: WGS 84				
Soil Map Unit Name: Saplelo sand	<u> </u>	NWI classification: Upland				
Are climatic / hydrologic conditions on the site	e typical for this time of year? Yes _	x No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "No	ormal Circumstances" present? Yes x No				
Are Vegetation, Soil, or Hydrold		ded, explain any answers in Remarks.)				
<u> </u>		ocations, transects, important features, etc.				
Hydrophytic Vegetation Present?	Yes x No Is the Sampled	Δτο2				
	Yes No x within a Wetland					
li	Yes x No					
Remarks:						
Rainfall conditions for Bradford County were slightly below average for October and are 3.07 inches above average for the prior 12 months. No measurable rain fell during the week leading up to the site visit. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check <u>all that apply)</u>	Surface Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C	C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)				
Field Observations:						
Surface Water Present? Yes	No x Depth (inches):					
	No x Depth (inches):	V. N.				
Saturation Present? Yes	No x Depth (inches): We	etland Hydrology Present? Yes X No				
(includes capillary fringe)	Titating well period photos provious inspection	Viferallable.				
Not available	nitoring well, aerial photos, previous inspection	is), if available:				
Damanka						
Remarks: The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected that during	g the wet season the water table is present within the top				

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8 UD8 Absolute Dominant Indicator Species? Tree Stratum (Plot size: 10m x 10m) % Cover Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species =Total Cover 6 x 1 = 50% of total cover: **FACW** species 20% of total cover: x2 =Sapling/Shrub Stratum (Plot size: 10m x 10m) 8 x 3 = FAC species 24 25 x 4 = Persea palustris **FACW FACU** species 100 1. No 2. Ilex glabra 25 Yes **FACW** UPL species 2 x 5 = 10 (B) 3. 25 Yes **FACU** Column Totals: 68 (A) 194 Serenoa repens 4. Gordonia lasianthus 1 No **FACW** Prevalence Index = B/A = 2.85 5. **Hydrophytic Vegetation Indicators:** 6. 1 - Rapid Test for Hydrophytic Vegetation 7. X 2 - Dominance Test is >50% 8. 3 - Prevalence Index is ≤3.01 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Woodwardia virginica OBL Yes ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2. Lachnanthes caroliniana 1 No OBL 3. Dichanthelium dichotomum 5 Yes FAC **Definitions of Four Vegetation Strata:** 2 UPI 4 Cladonia sp. Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or Andropogon virginicus more in diameter at breast height (DBH), regardless of 5. 2 No FAC height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. 10 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 15 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 8 Woody Vine Stratum (Plot size: 10m x 10m) 1. Vitis rotundifolia 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliotti makes up the canopy with 70% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W8_UD8

	ription: (Describe t	o the dept				ator or co	onfirm the absence	of indicate	ors.)	
Depth	Matrix			Featur		. 2	.		_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Rem	
1-6	10YR 2/1	25					Sandy	Remain	ing soil un	masked 10YR 6/1
6-8	10YR 3/1	40					Sandy	Remain	ing soil un	masked 10YR 6/1
8-20	10YR 5/1	90	10YR 6/1	10	D	M	Sandy			
							-			
- * '	ncentration, D=Deple					d Grains.	² Location:			
-	ndicators: (Applicat	ole to all L							-	dric Soils³:
Histosol (,		Thin Dark Su	,	, ,			luck (A9) (
	ipedon (A2)		Barrier Island		-	12)		luck (A10)		
Black His			(MLRA 15					Prairie Red		
	Sulfide (A4)		Loamy Muck	,	· / ·	.RR O)	•	ide MLRA	,	
	Layers (A5)		Loamy Gleye		(F2)			ed Vertic (I	,	
	Bodies (A6) (LRR, P,		Depleted Mar	` ,			•		150A, 15	•
	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark S		` '					F19) (LRR P, T)
	esence (A8) (LRR U)		Depleted Dar		` '			_	t Floodplai	n Soils (F20)
	ck (A9) (LRR P, T)		Redox Depre		(F8)		•	RA 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L					arent Material (F21)		
	rk Surface (A12)		Depleted Oct					Shallow Dark Surface (F22)		
	airie Redox (A16) (M	•							•	A in FL, 154)
	ucky Mineral (S1) (Li	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)		Delta Ochric				•	RA 153B, 1	•	
	edox (S5)		Reduced Ver	•			· — `	Explain in	Remarks)	
	Matrix (S6)		Piedmont Flo		-					
	face (S7) (LRR P, S,		Anomalous E	-						
	e Below Surface (S8)		(MLRA 149					•	. ,	egetation and
(LRR S	S, T, U)		Very Shallow		•	,	wetland hydrology must be present,			
			(MLRA 138	3, 152A	in FL, 1	54)	unle	ss disturbe	ed or proble	ematic.
	ayer (if observed):									
· -	None									
Depth (in	ches):						Hydric Soil Prese	ent?	Yes	No <u>X</u>
Remarks:	e plot is bedded and	furrowed	No ovidonoo of roc	ont alta	ration					
Area within tr	ie piot is bedded and	iurrowed.	No evidence of rec	ent alte	ration.					



W8_UD8



Project/Site: Trail Ridge South	City/County:	Bradford	Sampling Date: 11/1/18			
Applicant/Owner: The Chemours Compa	ny FC, LLC	State: FL	Sampling Point: W8_WD9			
Investigator(s): D. Sank, C. Kul, T. Richardso	on Section, Townshi	ip, Range: 13, -7, 22				
Landform (hillside, terrace, etc.): terrace	Local relief (concave	e, convex, none): none	Slope (%):0-2			
Subregion (LRR or MLRA): LRR T, MLRA 15	<u> </u>	Long: -82° 03' 29.4"	Datum: WGS 84			
Soil Map Unit Name: Pelham complex, 0-2 p	•	NWI classifica				
Are climatic / hydrologic conditions on the site			explain in Remarks.)			
Are Vegetation, Soil, or Hydrol		"Normal Circumstances" present				
Are Vegetation, Soil, or Hydrol	· · · · · · · · · · · · · · · · · · ·	needed, explain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach		nt locations, transects, im	portant features, etc.			
Hydrophytic Vegetation Present?	Yes x No Is the Samp					
' ' '	Yes x No within a We		No			
	Yes x No					
Remarks: Rainfall conditions for Bradford County were slightly below average for October and are 3.07 inches above average for the prior 12 months. No measurable rain fell during the week leading up to the site visit. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.						
HYDROLOGY						
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Thin Muck Surface (C7) x Other (Explain in Remarks)	Surface Soil Crace Sparsely Vegetate Drainage Patterns Moss Trim Lines (Dry-Season Wate Crayfish Burrows (C6) Saturation Visible Geomorphic Posit Shallow Aquitard	ed Concave Surface (B8) s (B10) (B16) er Table (C2) (C8) on Aerial Imagery (C9) tion (D2) (D3)			
Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)	")	x FAC-Neutral Test Sphagnum Moss				
Field Observations:	——————————————————————————————————————	Spriagrium woss	(D6) (LKK 1,U)			
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Not available	No x Depth (inches): No x Depth (inches): No X Depth (inches): Depth (inches): Initoring well, aerial photos, previous inspec	Wetland Hydrology Present? ctions), if available:	Yes <u>X</u> No			
Remarks: The natural landform has been converted for 12 inches of the soil profile. Pore linings four	•	3	le is present with in the top			

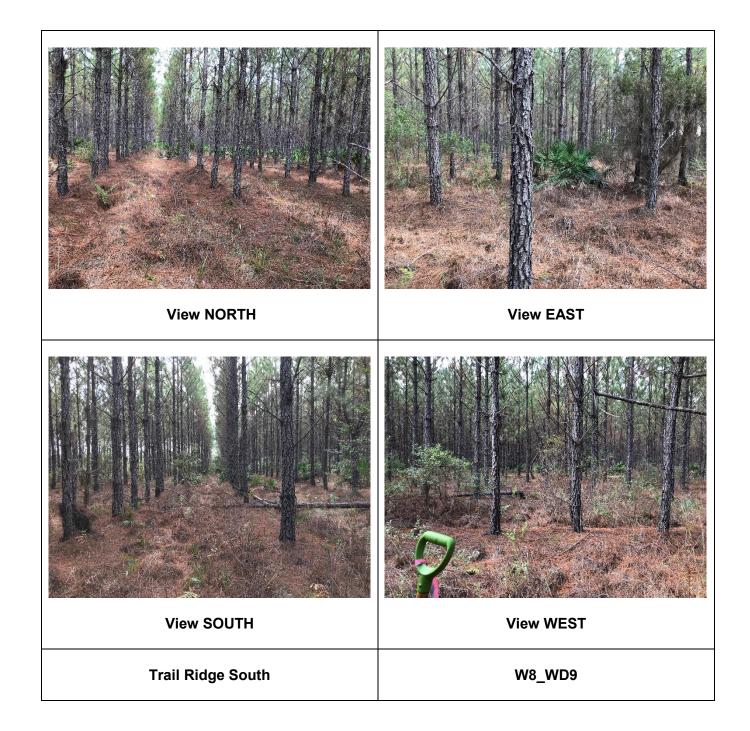
VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8 WD9 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species 25 ___ x 1 = =Total Cover 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: __10m x 10m _) 0 x 3 = FAC species x 4 = 1. llex glabra **FACW** FACU species 5 20 10 Yes 5 x 5 = 2. Serenoa repens UPL species 5 25 Column Totals: 45 (A) 3. 90 (B) 4. Prevalence Index = B/A = 2 00 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 8. 15 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Lachnanthes caroliniana 10 OBL Yes ¹Indicators of hydric soil and wetland hydrology must be 10 present, unless disturbed or problematic. 2. Woodwardia virginica Yes OBL 5 3. Cladonia sp. No UPL **Definitions of Four Vegetation Strata:** 5 4. OBL Sphagnum sp. Nο Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 30 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 15 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: No 20% of total cover: Present? Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliotti makes up the canopy with 60% cover. Not included in the calculations. No woody vines identified in the plot.

SOIL Sampling Point: W8_WD9

Profile Desc	ription: (Describe t	o the dept	h needed to docu	ment th	ne indica	ator or co	onfirm the absence	of indicators.)			
Depth	Matrix			Featur							
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0-6	10YR 4/1	50	10YR 5/1				Sandy				
6-8	10YR 4/2	98	10YR 5/8	2	<u>C</u>	M	Sandy				
8-17	10YR 4/2	80	10YR 6/1	10	D	PL/M	Sandy	2% 10YR 5/6 C, remaining 10YR 5/1 Mottles			
17-20	10YR 3/2	90	10YR 5/6	10	С	M	Sandy	Prominent redox concentrations			
¹Type: C=Co	ncentration, D=Depl	etion RM=I	Reduced Matrix M	S=Masl	ed San		² l ocation:	PL=Pore Lining, M=Matrix.			
	ndicators: (Applica					d Oranis.		for Problematic Hydric Soils ³ :			
Histosol (510 to all 2	Thin Dark Su			S T U)		Muck (A9) (LRR O)			
	ipedon (A2)		Barrier Island					Muck (A10) (LRR S)			
Black His			(MLRA 153		-	,		Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)			
	Layers (A5)		Loamy Gleye	,	· / ·		•	ed Vertic (F18)			
	Bodies (A6) (LRR, P	T 11)	Depleted Mat					side MLRA 150A, 150B)			
	cky Mineral (A7) (LR		Redox Dark S	` ,			•	ont Floodplain Soils (F19) (LRR P, T)			
	esence (A8) (LRR U)		Depleted Dar		` '			alous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre		` '			. , ,			
	Below Dark Surface	(A11)	Marl (F10) (L		(10)		(MLRA 153B) Red Parent Material (F21)				
	rk Surface (A12)	(,,,,	Depleted Och		1) (MI R	Δ 151)	Very Shallow Dark Surface (F22)				
	airie Redox (A16) (M	I RΔ 150Δ)									
	ucky Mineral (S1) (L	,	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
	leyed Matrix (S4)	0, 0,	Delta Ochric				(MLRA 153B, 153D)				
X Sandy Re			Reduced Ver				•	(Explain in Remarks)			
	Matrix (S6)		Piedmont Flo	•	, ,			(Explain in Formanie)			
	face (S7) (LRR P, S ,	T II)	Anomalous E								
	e Below Surface (S8)		(MLRA 149	-		,	,	ators of hydrophytic vegetation and			
LRR S		'	Very Shallow					and hydrology must be present,			
(2	, ., . ,		(MLRA 138		,	,	unless disturbed or problematic.				
	ayer (if observed):										
Type: 1							Uhadai a Gail Basa				
Depth (in	cnes):						Hydric Soil Pres	ent? Yes X No			
Remarks: Area within th	ne plot is bedded and	furrowed.	No evidence of rec	ent alte	ration.						



W8_WD9



Project/Site: Trail Ridge South	City/County: B	radford Sampling Date: 11/1/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W8_UD9				
Investigator(s): D. Sank, C. Kul, T. Richardson	n Section, Township,	Range: 13, -7, 22				
Landform (hillside, terrace, etc.): terrace	Local relief (concave, o					
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82°03' 28.6" Datum: WGS 84				
Soil Map Unit Name: Pelham complex, 0 to 2		NWI classification: Upland				
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes	X No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "N	Normal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrold		eded, explain any answers in Remarks.)				
<u> </u>		locations, transects, important features, etc.				
Hydrophytic Vegetation Present?	Yes No _ x _ Is the Sampled	— d Δrea				
	Yes No x within a Wetla					
l	Yes x No	_ _				
Remarks:						
Rainfall conditions for Bradford County were slightly below average for October and are 3.07 inches above average for the prior 12 months. No measurable rain fell during the week leading up to the site visit. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on Living Roots	(C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6	6) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	x Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7))	FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)				
Field Observations: Surface Water Present? Yes	No x Depth (inches):					
	No x Depth (inches):					
Saturation Present? Yes		Vetland Hydrology Present? Yes x No				
(includes capillary fringe)	,					
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspection	ons), if available:				
Remarks:						
	silviculture practices. It is expected that during	ng the wet season the water table is present with in the top				

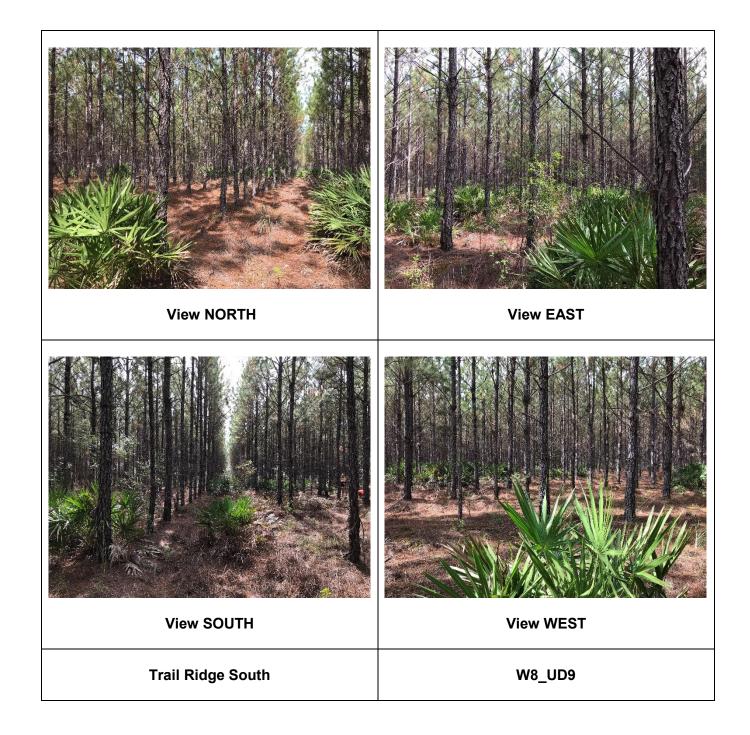
VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W8 UD9 Absolute Dominant Indicator Tree Stratum (Plot size: 10m x 10m) % Cover Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 50.0% (A/B) 7. Prevalence Index worksheet: 8. Total % Cover of: **OBL** species 10 ___ x 1 = =Total Cover 50% of total cover: **FACW** species 20% of total cover: x 2 = Sapling/Shrub Stratum (Plot size: 10m x 10m) x 3 = FAC species 10 30 30 x 4 = 1. Serenoa repens **FACU** FACU species 120 Yes 2. llex glabra 5 UPL species 5 x 5 = 25 60 (A) (B) 3. Column Totals: 195 4. Prevalence Index = B/A = 3 25 5. **Hydrophytic Vegetation Indicators:** 1 - Rapid Test for Hydrophytic Vegetation 6. 7. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 8. 35 =Total Cover Problematic Hydrophytic Vegetation¹ (Explain) 50% of total cover: 20% of total cover: Herb Stratum (Plot size: 10m x 10m) 1. Woodwardia virginica 10 OBL Yes ¹Indicators of hydric soil and wetland hydrology must be 10 present, unless disturbed or problematic. 2. Dichanthelium dichotomum Yes FAC Cladonia sp. 5 3. Yes UPL **Definitions of Four Vegetation Strata:** 4. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of 5. height. 6. 7. Sapling/Shrub - Woody plants, excluding vines, less 8. than 3 in. DBH and greater than 3.28 ft (1 m) tall. 9. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 25 =Total Cover Woody Vine - All woody vines greater than 3.28 ft in height. 20% of total cover: 50% of total cover: 13 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. **Hydrophytic** =Total Cover Vegetation 50% of total cover: 20% of total cover: Present? No_ Remarks: (If observed, list morphological adaptations below.) Planted Pinus elliotti makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines identified in the plot.

SOIL Sampling Point: W8_UD9

Profile Descr	ription: (Describe t	o the dept	th needed to docu	ıment tl	ne indica	ator or co	onfirm the absence o	of indicators.)		
Depth	Matrix			(Featur						
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Rer	marks	
0-2	10YR 3/1	30	10YR 6/1	70			Sandy			
2-7	10YR 3/1	50	10YR 6/1	50			Sandy			
7-9	10YR 4/1	50	10YR 5/1	5	<u>D</u>	M	Sandy	Remainin	g 10YR 4/2	
9-17	10YR 5/2	90	10YR 6/2	10	<u>D</u>	<u>M</u>	Sandy			
17-20	10YR 3/2	100					Sandy			
	ncentration, D=Depl					d Grains.		PL=Pore Lining, M=		
-	ndicators: (Applical	ole to all L						or Problematic Hy	/dric Soils³:	
Histosol (•		Thin Dark Su					uck (A9) (LRR O)		
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm Mu	uck (A10) (LRR S)		
Black His	` ,		(MLRA 15				Coast P	rairie Redox (A16)		
Hydrogen	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outsi	de MLRA 150A)		
	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
	Bodies (A6) (LRR, P,		Depleted Ma	trix (F3)			•	de MLRA 150A, 1	•	
5 cm Muc	cky Mineral (A7) (LR	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	nt Floodplain Soils	(F19) (LRR P, T)	
Muck Pre	sence (A8) (LRR U)		Depleted Dar	rk Surfa	ce (F7)		Anomal	ous Bright Floodpla	ain Soils (F20)	
1 cm Muc	k (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLR	A 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Parent Material (F21)			
Thick Dar	k Surface (A12)		Depleted Oct	hric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A)Iron-Mangan	ese Mas	sses (F1	2) (LRR (
Sandy Mu	ucky Mineral (S1) (Li	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrier I	arrier Islands Low Chroma Matrix (TS7)		
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	51)	(MLR	A 153B, 153D)		
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 1	50B) Other (E	Explain in Remarks)	
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)			
Dark Surf	ace (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	20)			
Polyvalue	Below Surface (S8))	(MLRA 149	9A, 153	C, 153D))	³ Indicato	ors of hydrophytic v	egetation and	
(LRR S	s, T, U)		Very Shallow	Dark S	urface (F	- 22)	wetland hydrology must be present,			
			(MLRA 138	8, 152A	in FL, 1	54)	unles	s disturbed or prob	lematic.	
	ayer (if observed):									
	lone									
Depth (inc	ches):						Hydric Soil Prese	nt? Yes	No_X	
Remarks:	e plot is bedded and	furrowed	No ovidence of rec	ont alta	ration					
Alea willin in	e plot is bedded and	iuiroweu.	No evidence of rec	eni ane	ration.					



W8_UD9



Project/Site: Trail Ridge South	City	/County: Bradford	Sampling Date: 12/5/18			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD10			
Investigator(s): B.McGee, N.Adams	Section,	Township, Range: 13,-7,22	<u> </u>			
Landform (hillside, terrace, etc.): depression		(concave, convex, none): concave	Slope (%): 0			
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82 03' 12.90"	Datum: WGS 84			
Soil Map Unit Name: Starke mucky fine sand			ration: Upland			
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no.	, explain in Remarks.)			
Are Vegetation, Soil, or Hydrok						
Are Vegetation, Soil, or Hydrold			Remarks.)			
SUMMARY OF FINDINGS – Attach			mportant features, etc.			
Hydrophytic Vegetation Present?	Yes X No Is th	ne Sampled Area				
1		nin a Wetland? Yes X	No			
I	Yes X No					
Remarks:						
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows have dominantly been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	s (minimum of two required)			
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Cra				
Surface Water (A1)	Aquatic Fauna (B13)		ated Concave Surface (B8)			
X High Water Table (A2)	Marl Deposits (B15) (LRR U)					
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines				
Water Marks (B1)	Oxidized Rhizospheres on Liv					
Sediment Deposits (B2)	Presence of Reduced Iron (C					
Drift Deposits (B3)	Recent Iron Reduction in Tille		le on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Pos	,			
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitare				
Inundation Visible on Aerial Imagery (B7)	<u> </u>	X FAC-Neutral Tes	st (D5)			
Water-Stained Leaves (B9)	•	X Sphagnum Mos	, ,			
Field Observations:		_				
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes X	No Depth (inches): 1	0				
Saturation Present? Yes X	No Depth (inches):	Wetland Hydrology Present?	Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previou	us inspections), if available:				
Remarks:						
The natural landform has been converted for Sphagnum moss located on the top and botton	•	ater present in bottom of some of the furr	ows located within the plot.			

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

		Absolute	Dominant	Indicator	
Tre	ee Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1.	Gordonia lasianthus	2	Yes	FACW	Number of Dominant Species
2.	Persea palustris	3	Yes	FACW	That Are OBL, FACW, or FAC:6 (A)
3.					Total Number of Dominant
4.					Species Across All Strata: 6 (B)
5.					Percent of Dominant Species
6.					That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
		5	=Total Cover		OBL species12 x 1 =12
	50% of total cover:3	3 20%	of total cover:	1	FACW species 46 x 2 = 92
Sa	pling/Shrub Stratum (Plot size: 10m x 10m)				FAC species25 x 3 =75
1.	Gordonia lasianthus	2	No	FACW	FACU species0 x 4 =0
2.	Lyonia lucida	10	Yes	FACW	UPL species0 x 5 =0
3.	llex glabra	10	Yes	FACW	Column Totals: 83 (A) 179 (B)
4.	Morella cerifera	5	No	FAC	Prevalence Index = B/A = 2.16
5.					Hydrophytic Vegetation Indicators:
6.					1 - Rapid Test for Hydrophytic Vegetation
7.					X 2 - Dominance Test is >50%
8.					X 3 - Prevalence Index is ≤3.0 ¹
		27	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover: 1	4 20%	of total cover:	6	<u> </u>
He	rb Stratum (Plot size: 10m x 10m)				
1.	Andropogon virginicus	20	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2.	Osmundastrum cinnamomeum	10	Yes	FACW	present, unless disturbed or problematic.
3.	Hypericum tetrapetalum	3	No	OBL	Definitions of Four Vegetation Strata:
4.	Woodwardia virginica	8	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.	Lachnanthes caroliniana	5	No	FACW	more in diameter at breast height (DBH), regardless of
6.	Rhexia nashii	1	No	FACW	height.
7.	llex glabra	1	No	FACW	
8.	Xyris elliottii	1	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less
9.	7,4,1.0 001				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10					
11					Herb – All herbaceous (non-woody) plants, regardless
12					of size, and woody plants less than 3.28 ft tall.
12		49	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
	50% of total cover: 29		of total cover:	10	height.
۱۸/	body Vine Stratum (Plot size: 10m x 10m)	2070	o or total cover.		<u> </u>
1.	Smilax laurifolia	2	No	FACW	
	Silliax laulifolia		INO	FACW	
2.					
3.					
4.					
5.					Hydrophytic
	F-01		=Total Cover	_	Vegetation
	50% of total cover:	<u> </u>	of total cover:	1	Present?
Re	marks: (If observed, list morphological adaptation	ns helow)			

Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted.

Sampling Point: W8-WD10

SOIL Sampling Point: W8-WD10

		o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	 -	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Remarks			
0-6	10YR 3/1	60	Color (moist)	70	Турс		Sandy	Remaining 40% unmasked 10YR 6/1			
6.00			10VD E/1	15							
6-22	10YR 2/1	85	10YR 5/1	15		<u>M</u>	Sandy	Stripping increases to 20% at 11"			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil II	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :										
Histosol ((A1)		Thin Dark Su	ırface (S	69) (LRR	S, T, U)	1 cm M	fluck (A9) (LRR O)			
Histic Epi	ipedon (A2)		Barrier Island	Barrier Islands 1 cm Muck (S12)				2 cm Muck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast Prairie Redox (A16)				
	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outside MLRA 150A)				
Stratified	Layers (A5)		Loamy Gleye	d Matri	x (F2)		Reduced Vertic (F18)				
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outside MLRA 150A, 150B)				
5 cm Mud	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedmont Floodplain Soils (F19) (LRR P, T)				
Muck Pre	esence (A8) (LRR U)		Depleted Dai	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)				
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (LRR U)				Red Parent Material (F21)				
Thick Da	rk Surface (A12)		Depleted Ocl	Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A	() Iron-Mangan	Iron-Manganese Masses (F12) (LRR C				side MLRA 138, 152A in FL, 154)			
Sandy Mi	ucky Mineral (S1) (Lf	Umbric Surfa	Umbric Surface (F13) (LRR P, T, U)				Islands Low Chroma Matrix (TS7)				
Sandy GI	eyed Matrix (S4)	Delta Ochric	Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)				
Sandy Re			Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Rem								
X Stripped	` ,		Piedmont Flo								
	face (S7) (LRR P, S,		Anomalous E	-							
	e Below Surface (S8)		•	(MLRA 149A, 153C, 153D)				³ Indicators of hydrophytic vegetation and			
(LRR S, T, U)			Very Shallow Dark Surface (F22)				wetland hydrology must be present,				
	(MLRA 138, 152A in FL, 154) unless disturbed or problematic.										
	ayer (if observed): None										
Depth (in							Hydric Soil Prese	ent? Yes X No			
Remarks:											
	e plot is bedded and	furrowed.	No evidence of re	cent so	il alteratio	on.					



W8_WD10



Project/Site: Trail Ridge South	City/County: Bra	adford	Sampling Date: 12/5/18					
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-UD10					
Investigator(s): B.McGee, N.Adams Section, Township, Range: 13, -7, 22								
Landform (hillside, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0								
Subregion (LRR or MLRA): LRR T, MLRA 15	· · · · · · · · · · · · · · · · · · ·	Long: -82° 03' 12.00"W	Datum: WGS 84					
Soil Map Unit Name: Leon sand, 0-2 percent		NWI classificat						
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes	X No (If no, e	explain in Remarks.)					
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "No	 ormal Circumstances" present?	Yes X No					
Are Vegetation, Soil, or Hydrok		ded, explain any answers in Re						
SUMMARY OF FINDINGS – Attach			•					
Hydrophytic Vegetation Present?	Yes X No Is the Sampled	Δrea						
	Yes No X within a Wetlar		No X					
l ·	Yes X No							
Remarks:								
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows have dominantly been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is require	ed; che <u>ck all that apply)</u>	Surface Soil Crack	•					
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)					
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns						
X Saturation (A3)	Hydrogen Sulfide Odor (C1)							
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2)						
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	esence of Reduced Iron (C4) Crayfish Burrows (C8)						
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	Thin Muck Surface (C7)							
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Test	(D5)					
Water-Stained Leaves (B9)		Sphagnum Moss ([D8) (LRR T,U)					
Field Observations:								
Surface Water Present? Yes	No X Depth (inches):							
Water Table Present? Yes X	No Depth (inches):12							
Saturation Present? Yes X	No Depth (inches): 8 W	etland Hydrology Present?	Yes X No					
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspection	ns), if available:						
Remarks:								
The natural landform has been converted for	silviculture practices.							

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

		Absolute	Dominant	Indicator	
	ee Stratum (Plot size: 10m x 10m)	% Cover 8	Species?	Status	Dominance Test worksheet:
	Gordonia lasianthus		Yes Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
 3. 	Liquidambar styraciflua	10	<u>res</u>	<u>FAC</u>	(,
4.					Total Number of Dominant Species Across All Strata: 7 (B)
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
		18	=Total Cover		OBL species 8 x 1 = 8
	50% of total cover:	9 20%	of total cover:	4	FACW species 27 x 2 = 54
Sa	pling/Shrub Stratum (Plot size: 10m x 10m)			FAC species17
1.	Serenoa repens	8	Yes	FACU	FACU species11 x 4 =44
2.	llex coriacea	5	Yes	FACW	UPL species0 x 5 =0
3.	llex glabra	5	Yes	FACW	Column Totals: 63 (A) 157 (B)
4.	Lyonia lucida	3	No	FACW	Prevalence Index = B/A = 2.49
5.	Gordonia lasianthus	1	No	FACW	Hydrophytic Vegetation Indicators:
6.			. <u> </u>		1 - Rapid Test for Hydrophytic Vegetation
7.					X 2 - Dominance Test is >50%
8.					3 - Prevalence Index is ≤3.0 ¹
		22	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
He	50% of total cover: brb Stratum (Plot size: 10m x 10m)	<u>11 </u>	of total cover:	5	
1.	Andropogon virginicus	5	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2.	Lachnanthes caroliniana	3	No	OBL	present, unless disturbed or problematic.
3.	Pteridium aquilinum	3	No	FACU	Definitions of Four Vegetation Strata:
4.	Woodwardia areolata	5	Yes	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. <i>Ilex glabra</i>6.		3	No	FACW	more in diameter at breast height (DBH), regardless of height.
7. 8.					Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9. 10					Herb – All herbaceous (non-woody) plants, regardless
11 12					of size, and woody plants less than 3.28 ft tall.
	50% of total cover:	19 10	=Total Cover	4	Woody Vine – All woody vines greater than 3.28 ft in height.
W	pody Vine Stratum (Plot size: 10m x 10m)	10 20%	or total cover.	<u> </u>	
1.	Vitis rotundifolia	2	No	FAC	
2.	Smilax laurifolia	2	No	FACW	
3.	Chinax Iddinona				
4.					
т. 5.					
J.		4	=Total Cover		Hydrophytic
	50% of total cover:		of total cover:	1	Vegetation Present? Yes X No
_			. 55 50761.		1.155m. 100 X
Κe	marks: (If observed, list morphological adaptation	ons below.)			

Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted.

Sampling Point: W8-UD10

SOIL Sampling Point: W8-UD10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth (inches)	Matrix Color (maint)	 _		Feature %		Loc ²	Toyetura	Dom	orko		
(inches) 0-5	Color (moist) 10YR 3/1	60	Color (moist)		Type ¹	LOC	Texture Sandy	Remaining 40% ur			
5-7.5	10YR 3/1	30					Sandy	Remaining soil ur			
7.5-23	10YR 6/1	90	10YR 7/1	10			Sandy	Stripping increases			
7.0 20	1011(0)1		1011(17)				Canay	the soil profile			
									promo		
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masl	ced Sand	Grains.	² Location:	PL=Pore Lining, M=N	Matrix.		
Hydric Soil In	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hy	dric Soils ³ :		
Histosol ((A1)		Thin Dark Su	rface (S	9) (LRR	S, T, U)	1 cm M	/luck (A9) (LRR O)			
Histic Epi	pedon (A2)		Barrier Island	Barrier Islands 1 cm Muck (S12)				2 cm Muck (A10) (LRR S)			
Black His	tic (A3)		(MLRA 153	(MLRA 153B, 153D)				Coast Prairie Redox (A16)			
Hydrogen	Sulfide (A4)		Loamy Mucky	y Minera	al (F1) (L	RR O)	(outside MLRA 150A)				
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduced Vertic (F18)				
	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	Depleted Matrix (F3)				(outside MLRA 150A, 150B)			
5 cm Muc	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmont Floodplain Soils (F19) (LRR P, T)				
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)				
	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLRA 153B)				
 Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Parent Material (F21)				
Thick Dar	rk Surface (A12)		Depleted Och	Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A)	Iron-Mangane	Iron-Manganese Masses (F12) (LRR C				D, P, T) (outside MLRA 138, 152A in FL, 154)			
Sandy Mu	ucky Mineral (S1) (LF	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier	Islands Low Chroma	ı Matrix (TS7)			
Sandy Gleyed Matrix (S4)			Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)				
Sandy Re	edox (S5)	Reduced Ver	tic (F18) (MLRA	150A, 15	Other (Explain in Remarks)					
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Surf	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Flo	oodplain	Soils (F2	0)				
Polyvalue	Below Surface (S8)		(MLRA 149	(MLRA 149A, 153C, 153D)				³ Indicators of hydrophytic vegetation and			
(LRR S, T, U)			Very Shallow Dark Surface (F22)				wetland hydrology must be present,				
		(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.					
	ayer (if observed): None										
Type: <u>N</u> Depth (in							Hydric Soil Prese	ent? Yes	No X		
							.,				
Remarks:											



W8_UD10



Project/Site: Trail Ridge South	City/0	County: Bradford	Sampling Date: 12/5/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD11
Investigator(s): B.McGee, N.Adams	Section, T	ownship, Range: 13, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (concave, convex, none): none	Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 2' 59.29"W	Datum: WGS 84
Soil Map Unit Name: Meadowbrook and Allar			ation: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed?	Are "Normal Circumstances" presen	t? Yes X No
Are Vegetation, Soil, or Hydrok		(If needed, explain any answers in R	
SUMMARY OF FINDINGS – Attach			·
Hydrophytic Vegetation Present?	Yes X No Is the	Sampled Area	
		n a Wetland? Yes X	No
	Yes X No		
Remarks:			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows have dominan cross slope, this can result in ponding of water	ring the prior week. The site has been asonal high water table resulting in titly been constructed perpendicular	en historically converted to pine plantation wetland vegetation within the furrow, ho to the slope per silviculture BMPs. Since	on and has beds/furrows. In owever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cra	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres on Livi		
Sediment Deposits (B2)	Presence of Reduced Iron (C4		
Drift Deposits (B3)	Recent Iron Reduction in Tilled		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7	<u> </u>	X FAC-Neutral Tes	
Water-Stained Leaves (B9)	,	X Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
	No Depth (inches): 14		
Saturation Present? Yes X	No Depth (inches): 12	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous	s inspections), if available:	
Remarks:			
The natural landform has been converted for	silviculture practices. Sphagnum r	noss located on the top and bottom of th	ne furrows.

_	0 (D	Absolute	Dominant	Indicator	2
	e Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. 2.	Gordonia lasianthus	10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3.					
3. 4.					Total Number of Dominant Species Across All Strata: 6 (B)
т. 5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
		10 =	Total Cover		OBL species 5 x 1 = 5
	50% of total cover:	5 20%	of total cover:	2	FACW species 31 x 2 = 62
Sar	oling/Shrub Stratum (Plot size: 10m x 10m))			FAC species 43 x 3 = 129
1.	Gordonia lasianthus	8	Yes	FACW	FACU species 5 x 4 = 20
2.	Serenoa repens	5	Yes	FACU	UPL species 0 x 5 = 0
3.	Pinus elliottii	3	No	FACW	Column Totals: 84 (A) 216 (B)
4.	Persea palustris	2	No	FACW	Prevalence Index = B/A = 2.57
5.	llex glabra	5	Yes	FACW	Hydrophytic Vegetation Indicators:
6.					1 - Rapid Test for Hydrophytic Vegetation
7.					X 2 - Dominance Test is >50%
8.					X 3 - Prevalence Index is ≤3.0 ¹
		23 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover: 1	2 20%	of total cover:	5	
Her	<u>b Stratum</u> (Plot size: 10m x 10m)				
1.	Andropogon virginicus	30	Yes	FAC	Indicators of hydric coil and watland hydrology must be
2.	Woodwardia virginica	5	No	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Scleria baldwinii	3	No	FACW	Definitions of Four Vegetation Strata:
4.	Dichanthelium dichotomum	5	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.					more in diameter at breast height (DBH), regardless of
6.		-			height.
7.					
8.					Sapling/Shrub – Woody plants, excluding vines, less
9.					than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.					
11.					Herb – All herbaceous (non-woody) plants, regardless
12.					of size, and woody plants less than 3.28 ft tall.
		43	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
	50% of total cover: 2		of total cover:	9	height.
Wo	ody Vine Stratum (Plot size: 10m x 10m)				
1.	Vitis rotundifolia	8	Yes	FAC	
2.					
3.					
4.					
5.					
٠.		8 =	Total Cover		Hydrophytic
	50% of total cover:		of total cover:	2	Vegetation Present? Yes X No
					11050IR: 105 <u>X</u> IV
	marks: (If observed, list morphological adaptatio nted Pinus elliottii makes up the canopy with 60%	,	included in cal	culations bed	cause it was planted.

US Army Corps of Engineers

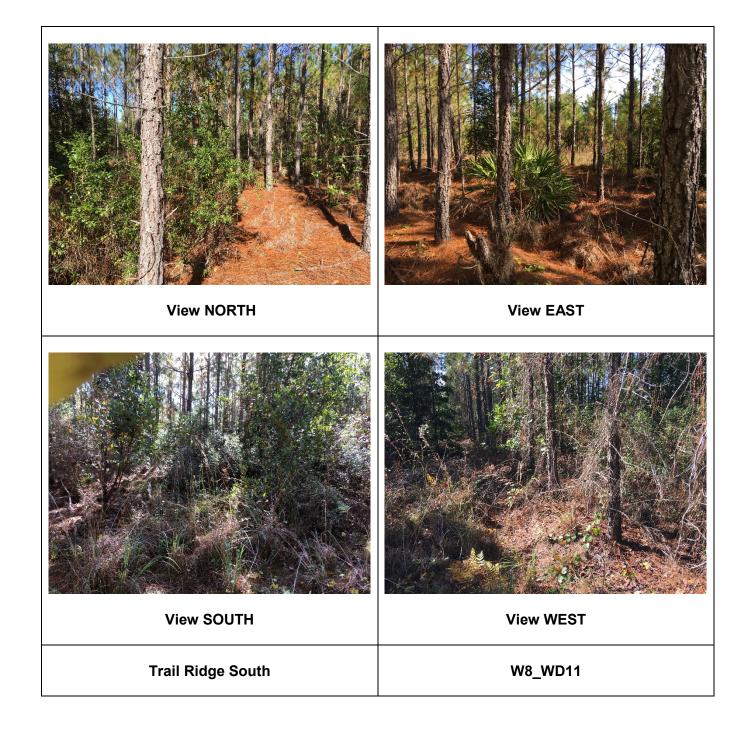
Sampling Point: W8-WD11

SOIL Sampling Point: W8-WD11

	ription: (Describe to	o the dept				ator or co	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	0/		Feature		1002	Toyturo	Domorko
(inches) 0-3	Color (moist) 10YR 2/1	% 60	Color (moist)		Type ¹	Loc ²	Texture	Remarks Remarks Annual Annua
							Sandy	Remaining 40% unmasked 10YR 6/1
3-6	10YR 2/1	60					Sandy	Remaining 40% unmasked 10YR 4/1
6-20	10YR 3/1	85	10YR 6/1	15	<u>D</u>	M	Sandy	
¹Type: C=Co	ncentration, D=Deple	 etion. RM=	Reduced Matrix. M	S=Mask	ed Sand	Grains.	2Location:	PL=Pore Lining, M=Matrix.
	ndicators: (Applicat					- 0		for Problematic Hydric Soils ³ :
Histosol (Thin Dark Su			S, T, U)		Muck (A9) (LRR O)
	pedon (A2)		Barrier Island	,	, ,			Muck (A10) (LRR S)
Black His			(MLRA 153		-	ŕ		Prairie Redox (A16)
—— Hydrogen	Sulfide (A4)		Loamy Mucky	y Minera	al (F1) (L	.RR O)		side MLRA 150A)
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduc	ed Vertic (F18)
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			— (outs	side MLRA 150A, 150B)
5 cm Mud	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)
Muck Pre	sence (A8) (LRR U)		Depleted Dar	k Surfac	ce (F7)		Anoma	alous Bright Floodplain Soils (F20)
1 cm Muc	ck (A9) (LRR P, T)		Redox Depre	ssions (F8)		(MLF	RA 153B)
Depleted	Below Dark Surface	(A11)	Marl (F10) (L				Red Pa	arent Material (F21)
	k Surface (A12)		Depleted Och	-				hallow Dark Surface (F22)
	airie Redox (A16) (M I		· —		,	, .	, , ,	side MLRA 138, 152A in FL, 154)
	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	•				Islands Low Chroma Matrix (TS7)
	eyed Matrix (S4)		Delta Ochric	. , .		•	•	RA 153B, 153D)
Sandy Re			Reduced Ver		, ,		· —	(Explain in Remarks)
X Stripped I	, ,	T 11\	Piedmont Flo		-			
	face (S7) (LRR P, S, Below Surface (S8)		(MLRA 149	-		-		tors of hydrophytic vegetation and
(LRR S			Very Shallow					and hydrology must be present,
(LIXIY O	,, 1, 0)		(MLRA 138		•	,		ss disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: N	lone							
Depth (in	ches):						Hydric Soil Pres	ent? Yes <u>X</u> No
Remarks:	e plot is bedded and	furrowed	No ovidence of re-	oont ooi	Laltaratio	. n		
Alea Willin III	e piot is bedded and	iuiioweu.	No evidence of re-	Cent Son	ancian)II.		



W8_WD11



Project/Site: Trail Ridge South	City/County	: Bradford	Sampling Date: 12/5/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-UD11
Investigator(s): B.McGee, N.Adams	Section, Townsh	ip, Range: 13, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (concav	re, convex, none): none	Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 2' 59.04"W	Datum: WGS 84
Soil Map Unit Name: Meadowbrook and Allar		NWI classificat	
Are climatic / hydrologic conditions on the site	typical for this time of year?	es X No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are	* "Normal Circumstances" present	? Yes X No
Are Vegetation, Soil, or Hydrok		needed, explain any answers in Re	
SUMMARY OF FINDINGS – Attach			•
Hydrophytic Vegetation Present?	Yes X No Is the Samp	oled Area	
	Yes No X within a We		No X
l ·	Yes X No		
Remarks:			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows have dominan cross slope, this can result in ponding of water	ing the prior week. The site has been hist asonal high water table resulting in wetlar itly been constructed perpendicular to the	orically converted to pine plantation id vegetation within the furrow, how slope per silviculture BMPs. Since	n and has beds/furrows. In vever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	•
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (
Water Marks (B1)	Oxidized Rhizospheres on Living Roo		•
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Test	(D5)
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes X	No Depth (inches):12		
Saturation Present? Yes X	No Depth (inches):8	Wetland Hydrology Present?	Yes _ X _ No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
The natural landform has been converted for	silviculture practices. Sphagnum moss lo	ocated at the bottom of a single de	ep furrow.

	Absolu						
Tree Stratum (Plot size: 10m x 10m)	% Cov	er Species?	Status	Dominance Test	worksheet:		
1. Gordonia lasianthus	10	Yes	FACW	Number of Domina	ant Species		
2				That Are OBL, FA	CW, or FAC:	4	_ (A)
3				Total Number of D	ominant		
1				Species Across A	ll Strata:	6	_ (B)
5.				Percent of Domina	ant Species		
5				That Are OBL, FA	CW, or FAC:	66.7%	_ (A/B)
7.			_	Prevalence Index	worksheet:		
3.				Total % Cov	er of:	Multiply by:	
	10	=Total Cove	r	OBL species	7 x 1	= 7	
50% of total cover:	5 2	 20% of total cove	er: 2	FACW species	27 x 2	2 = 54	
<u>—</u> Sapling/Shrub Stratum (Plot size: 10m x 10m)			FAC species	x 3	3 = 72	
. Gordonia lasianthus	- ′ 5	Yes	FACW	FACU species	x 4	80	
2. Vaccinium corymbosum	3	Yes	FACW	UPL species	3 x 5		
3. Rhus copallinum	3	Yes	UPL	Column Totals:	81 (A)	228	— (B
. Pinus elliottii	- 1		FACW	<u> </u>	Index = B/A =	2.81	
i. Ilex glabra		No	FACW	Hydrophytic Vege			
inex grabia			TACV	1			
· ·		<u> </u>		I —	t for Hydrophytic	vegetation	
				X 2 - Dominance	e Test is >50% e Index is ≤3.0 ¹		
B				— 3 - Prevalence	e maex is ≤3.0	. 1	
				Double Leave and the L	la callara da la catta a Villa da		
	14	=Total Cove		Problematic F	lydrophytic Vege	etation' (Expl	ain)
50% of total cover:		=Total Cove 20% of total cove		Problematic H	lydrophytic Vege	etation' (Expl	ain)
-				Problematic H	lydrophytic Veg	etation' (Expl	ain)
Herb Stratum (Plot size: 10m x 10m)				Problematic F	, , , ,	` '	,
Herb Stratum (Plot size: 10m x 10m)	7 2	20% of total cove	er: <u>3</u>		ic soil and wetla	nd hydrology	,
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Pteridium aquilinum	7 20	20% of total cove	er: 3 FAC	¹ Indicators of hydr	ic soil and wetla	nd hydrology ematic.	,
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Pteridium aquilinum Woodwardia virginica	7 20 20 20	20% of total cove	FAC FACU	¹ Indicators of hydr present, unless dis	ic soil and wetla sturbed or problour Vegetation S	nd hydrology ematic. Strata:	must t
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Pteridium aquilinum Woodwardia virginica Xyris elliottii	7 20 20 20 5	20% of total cove Yes Yes No	FAC FACU OBL	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a	ic soil and wetla sturbed or proble ur Vegetation \$ nts, excluding vi	nd hydrology ematic. Strata: nes, 3 in. (7.6	must t
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Pteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa	7 20 20 20 5 1	Yes Yes No	FAC FACU OBL OBL	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla	ic soil and wetla sturbed or proble ur Vegetation \$ nts, excluding vi	nd hydrology ematic. Strata: nes, 3 in. (7.6	must b
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum	7 20 20 20 5 1	Yes Yes No No	FAC FACU OBL OBL FAC	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height.	ic soil and wetla sturbed or proble ur Vegetation S nts, excluding vi at breast height	nd hydrology ematic. Strata: nes, 3 in. (7.0 (DBH), regard	must b 6 cm) c dless o
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra	7 20 20 20 5 1 1	Yes Yes No No No No	FAC FACU OBL OBL FAC OBL	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height.	ic soil and wetlasturbed or proble ur Vegetation S nts, excluding viat breast height Woody plants, e	nd hydrology ematic. Strata: nes, 3 in. (7.0 (DBH), regard	must to a compare the compare to the compare the compa
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Pteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum	7 20 20 20 5 1 1 1	Yes Yes No No No No No No	FAC FACU OBL FAC OBL FACW FAC	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height.	ic soil and wetlasturbed or proble ur Vegetation S nts, excluding viat breast height Woody plants, e	nd hydrology ematic. Strata: nes, 3 in. (7.0 (DBH), regard	must b 6 cm) c dless o
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii	7 20 20 20 5 1 1 1 2	Yes Yes No	FACUOBLFACOBLFACW	¹ Indicators of hydrogresent, unless distributions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and	ic soil and wetla sturbed or proble ur Vegetation S nts, excluding vi at breast height Woody plants, ed d greater than 3	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta	must be a compared to the comp
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Pteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0.	7 20 20 20 5 1 1 1 2	Yes Yes No	FAC FACU OBL FAC OBL FACW FAC	¹ Indicators of hydrogresent, unless distributions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herbace.	ic soil and wetlasturbed or proble ur Vegetation S nts, excluding viat breast height Woody plants, ed greater than 3	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta	must be a compared to the comp
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1.	7 20 20 20 5 1 1 1 2	Yes Yes No	FAC FACU OBL FAC OBL FACW FAC	¹ Indicators of hydrogresent, unless distributions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and	ic soil and wetlasturbed or proble ur Vegetation S nts, excluding viat breast height Woody plants, ed greater than 3	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta	must be a compared to the comp
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1.	7 20 20 5 1 1 2 1 2 1 3	Yes Yes No No No No No No No No No	FACUOBL FACUOBL FAC OBL FACW FACW FACW	¹ Indicators of hydrogresent, unless distributions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herbaco of size, and woody	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must to a cm) of dless of the colors, less all.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1.	7 20 20 5 1 1 1 2 1 3	Yes Yes Yes No No No No No No No N	FACUOBL FACUOBL FACW FACW FACW FACW	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herback of size, and woody Woody Vine – All	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must b 6 cm) o dless o es, less all.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Pteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1. 2. 50% of total cover:	7 20 20 5 1 1 1 2 1 3	Yes Yes No No No No No No No No No	FACUOBL FACUOBL FACW FACW FACW FACW	¹ Indicators of hydrogresent, unless distributions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herbaco of size, and woody	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must b 6 cm) o dless o es, less all.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Noodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1. 2. 50% of total cover:	7 20 20 20 5 1 1 1 2 1 3 3 54 27 2	Yes Yes No No No No No No On No No On No	FAC OBL FAC OBL FAC OBL FAC OBL FACW FAC FACW FAC TACW FAC FACW FAC FACW FAC FACW FAC FACW	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herback of size, and woody Woody Vine – All	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must b 6 cm) o dless o es, less all.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Noodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1. 2. 50% of total cover: Voody Vine Stratum (Plot size: 10m x 10m Vitis rotundifolia	7 20 20 20 5 1 1 1 2 1 3 3	Yes Yes Yes No No No No No No No N	FAC FACU OBL FAC OBL FACW FACW	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herback of size, and woody Woody Vine – All	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must b 6 cm) o dless o es, less all.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Noodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1. 2. 50% of total cover: Voody Vine Stratum (Plot size: 10m x 10m Vitis rotundifolia Smilax laurifolia	7 20 20 20 5 1 1 1 2 1 3 3 54 27 2	Yes Yes No No No No No No On No No On No	FAC OBL FAC OBL FAC OBL FAC OBL FACW FAC FACW FAC TACW FAC FACW FAC FACW FAC FACW FAC FACW	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herback of size, and woody Woody Vine – All	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must b 6 cm) o dless o es, less all.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Noodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1. 2. 50% of total cover: Voody Vine Stratum (Plot size: 10m x 10m Vitis rotundifolia Smilax laurifolia	7 20 20 20 5 1 1 1 2 1 3 3	Yes Yes Yes No No No No No No No N	FAC FACU OBL FAC OBL FACW FACW	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herback of size, and woody Woody Vine – All	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must be a composed of the comp
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Pteridium aquilinum Woodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1. 2. 50% of total cover: Woody Vine Stratum (Plot size: 10m x 10m Vitis rotundifolia Smilax laurifolia	7 20 20 20 5 1 1 1 2 1 3 3	Yes Yes Yes No No No No No No No N	FAC FACU OBL FAC OBL FACW FACW	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herback of size, and woody Woody Vine – All	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must be a composed of the comp
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Noodwardia virginica Xyris elliottii Solidago fistulosa Hypericum tetrapetalum Ilex glabra Dichanthelium dichotomum Scleria baldwinii 0. 1. 2. 50% of total cover: Noody Vine Stratum (Plot size: 10m x 10m	7 20 20 20 5 1 1 1 2 1 3 3	Yes Yes Yes No No No No No No No N	FAC FACU OBL FAC OBL FACW FACW	¹ Indicators of hydrogresent, unless distributions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and the herb – All herbact of size, and woody Woody Vine – All height.	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must be a composed of the comp
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Peteridium aquilinum Noodwardia virginica Noodw	7 20 20 20 5 1 1 1 2 1 3 3	Yes Yes Yes No No No No No No No N	FAC FACU OBL FAC OBL FACW FAC FACW FACW FACW FACW FACW FACW	¹ Indicators of hydr present, unless dis Definitions of Fo Tree – Woody pla more in diameter a height. Sapling/Shrub – than 3 in. DBH and Herb – All herback of size, and woody Woody Vine – All	ic soil and wetlasturbed or probleur Vegetation Sonts, excluding value breast height Woody plants, ed greater than 3 eous (non-woody plants less that	nd hydrology ematic. Strata: nes, 3 in. (7.6 (DBH), regard excluding vine .28 ft (1 m) ta y) plants, reg n 3.28 ft tall.	must b 6 cm) o dless of s, less all.

Planted Pinus elliottii makes up the canopy with 50% cover. Not included in calculations because it was planted.

SOIL Sampling Point: W8-UD11

Color (moist) 10YR 2/1 10YR 2/1 10YR 3/1	% 60 60 90	Color (moist)	x Feature	Type ¹	Loc ²	Texture Sandy Sandy	Remaining 40	0% 10YR 6/1		
10YR 2/1	60	10YR 5/1	<u> </u>	_		<u>, </u>				
		10YR 5/1				Sandy	Remaining 40	00/ 40VD 4/4		
		10YR 5/1						170 IUTR 4/I		
10YR 3/1	90	10YR 5/1				<u>, </u>	Tromaining 40	370 1011(4/1		
			10	<u>D</u>	<u> </u>	Sandy				
		_								
						2				
					d Grains.					
	ole to all L				C T II)		-	aric Soils":		
•										
				-	12)		, , , , ,			
` '					PP ∩\					
			•	` ' '	ikik O)	•	,			
, ,	T. U)			(1 2)			` ,	0B)		
, , ,			` '	(F6)		•	•	•		
• , , ,				` '				, , , ,		
				` '			-	(- /		
Below Dark Surface	(A11)	Marl (F10) (L	.RR U)	,		Red Pa	rent Material (F21)			
k Surface (A12)		Depleted Oc	hric (F1	i) (MLR	A 151)	Very Sh	nallow Dark Surface	(F22)		
nirie Redox (A16) (M I	LRA 150A) Iron-Mangan	ese Mas	ses (F1	2) (LRR O	, P, T) (outs	ide MLRA 138, 152	A in FL, 154)		
ıcky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ace (F13) (LRR F	P, T, U)	Barrier	er Islands Low Chroma Matrix (TS7)			
eyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	51)	(MLR	A 153B, 153D)			
dox (S5)		Reduced Ve	rtic (F18) (MLRA	150A, 15	0B) Other (E	Explain in Remarks)			
Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLR	A 149A)				
			-							
								-		
, T, U)		<u> </u>		`	,					
		(MLRA 13	8, 152A	in FL, 1	54)	unles	ss disturbed or proble	ematic.		
• ,										
						Under Call Decay		Na V		
						Hydric Soil Prese	nt? Yes	No <u>X</u>		
of sharp boundaries	s within the	soil profile. Datap	ooint loca	ated adja	acent to a	old trail road. Area v	vithin the plot is bedo	ded and furrowed.		
1	ndicators: (Application A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Bodies (A6) (LRR, P, Rky Mineral (A7) (LR Bence (A8) (LRR U)) red (A9) (LRR P, T) Below Dark Surface (A12) red (A12) red (A16) (Marcy Mineral (S1) (LI Bence (A12)) red (A16) (A16) (A16) (A16) (A16) (A16) red (A16) (A1	ndicators: (Applicable to all LA1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Sodies (A6) (LRR, P, T, U) sence (A8) (LRR U) sence (A8) (LRR U) selow Dark Surface (A11) k Surface (A12) sirie Redox (A16) (MLRA 150A) seyed Matrix (S4) sdox (S5) Matrix (S6) ace (S7) (LRR P, S, T, U) Below Surface (S8) , T, U) seyer (if observed): lone ches):	A1) Pedon (A2) Thin Dark Subarrier Island (MLRA 15 Sulfide (A4) Layers (A5) Sodies (A6) (LRR, P, T, U) Sence (A8) (LRR U) Selow Dark Surface (A11) K Surface (A12) Suirie Redox (A16) (MLRA 150A) Suirie Redox (A16) (MLRA 150A) Surface (S7) (LRR P, S, T, U) Below Surface (S8) Attrix (S6) Below Surface (S8) Be	Thin Dark Surface (Section (A2) pedon (A2) bit (A3) Sulfide (A4) Layers (A5) Sodies (A6) (LRR, P, T, U) Seence (A8) (LRR U) Seence (A8) (LRR P, T) Below Dark Surface (A11) k Surface (A12) Suirie Redox (A16) (MLRA 150A) Surface (A15) Surface (A16) Surface (A17) Surface (A18) Surface (A18) Surface (A19) Surface (A19) Surface (A19) Surface (A19) Surface (A10) Surface (A11) Surface (A12) Surface (A13) Surface (A14) Surface (A15) Surface (A16) (MLRA 150A) Surface (A16) Surface (A17) Surface (A18) Surface (A18) Surface (A19) Surf	Thin Dark Surface (S9) (LRR Barrier Islands 1 cm Muck (S (MLRA 153B, 153D)) Sulfide (A4) Layers (A5) Sudies (A6) (LRR, P, T, U) Sence (A8) (LRR U) Selow Dark Surface (A11) K Surface (A12) Lirie Redox (A16) (MLRA 150A) Locky Mineral (S1) (LRR O, S) Sulfide (S7) (LRR P, S, T, U) Below Surface (S8) Adtrix (S6) Below Surface (S8) Attrix (S6) Below Surface (S6) Below Sur	Thin Dark Surface (S9) (LRR S, T, U) Barrier Islands 1 cm Muck (S12) (MLRA 153B, 153D) Loamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Below Dark Surface (A11) k Surface (A12) Depleted Ochric (F11) (MLRA 151) Irron-Manganese Masses (F12) (LRR O, S) Deyed Matrix (S4) Delta Ochric (F17) (MLRA 150A, 15 Matrix (S6) Matrix (S6)	Indicators: (Applicable to all LRRs, unless otherwise noted.) A1)	Indicators: (Applicable to all LRRs, unless otherwise noted.) Thin Dark Surface (S9) (LRR S, T, U) pedon (A2) Barrier Islands 1 cm Muck (S12) (MLRA 153B, 153D) Loamy Mucky Mineral (F1) (LRR O) Layers (A5) Loamy Gleyed Matrix (F2) Sence (A8) (LRR P, T, U) Redox Depressions (F8) Below Dark Surface (A11) k Surface (A12) Depleted Oberic (F11) (MLRA 151) rice Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T, U) Below Dark Surface (S1) Cother (F18) (MLRA 150A) Red Parent Material (F21) Very Shallow Dark Surface (F0) Berrier Islands 1 cm Muck (A9) (LRR O, P, T) Cother (E11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) God (S5) Matrix (S6) Anomalous Bright Floodplain Soils (F19) (MLRA 149A) ace (S7) (LRR P, S, T, U) Below Surface (S8) (MLRA 149A, 153C, 153D) Very Shallow Dark Surbed or problematic Hyth Carbon (A16) Indicators for Problematic Hyth Carbon (A16) (LRR O) 1 cm Muck (A9) (LRR O, Carbon (A16) (LRR O, Carbon (A16)) (coth Muck (A10) (LRR O, Carbon (A16)) (coth Muck (A10) (Cother (F18)) (cother (A10) (Cother (A16)) (cother Muck (A16) (Outside MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 151) Cother (Explain in Remarks) (muck (A16) (Cother (Explain in Remarks) (muck (A16) (Cother (A16)) (muck (A16) (Cother (A16)) (muck (A16) (Muck (A15)) (muck (A16) (Muck (A16) (Muck (A16)) (muck (A16) (Muck (A15)) (muck (A16) (Muck (A16) (Muck (A16)) (muck (A16) (Muck (A15)) (muck (A15) (Muck (A15)) (muck (A16) (Muck (A15)) (muck (A15) (Muck (A15)) (muck (A15) (Muck (A15)) (muck (A15) (Muck (A15)) (muck (A16) (Muck (A15)) (muck (A15) (Muck (A15)) (muck (A16) (Muck (A15)) (muck (A16) (Muck (A15)) (muck (A16) (Muck (A15)) (muck		



W8_UD11



Project/Site: Trail Ridge South	City/County: Clay		Sampling Date: 01/30/19
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL	Sampling Point: W8_WD12
Investigator(s): N. Adams, B. McGee	Section, Township, Range	: 18, -7, 23	
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex	, none): concave	Slope (%):0
Subregion (LRR or MLRA): LRR T, MLRA 15	3A Lat: 29°53'21.9"N Long:	-82°02'43.1"W	Datum: WGS 84
Soil Map Unit Name: Pottsburg fine sand		NWI classificat	tion: Wetland
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogysignificantly disturbed? Are "Normal	Circumstances" present	? Yes X No
Are Vegetation, Soil, or Hydrold		xplain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point locat	ions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	res X No Is the Sampled Area		
I	Yes X No within a Wetland?	Yes X	No
	/es X No		
Remarks: Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur	er than normal for January and are 5.94 inches aboing the prior week.	ve average for the prior	12 months. An average 1.86
HYDROLOGY			1
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	ks (B6)
X Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetate	ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	s (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines ((B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Wate	r Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
X Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Posit	tion (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test	
X Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes X	No Depth (inches):1		
Water Table Present? Yes	No X Depth (inches):		
	No X Depth (inches): Wetland	l Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)	itania and the same in the sam		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	avaliable:	
Remarks:			
Approximately 60% sphagnum moss located	in plot.		

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:6 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 6 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		=Total Cover		OBL species 11 x1 = 11
500/ of total anyon				
50% of total cover:	20%	of total cover:		FACW species 41 x 2 = 82
Sapling/Shrub Stratum (Plot size: 10m x 10m)	_			FAC species13 x 3 =39
Gordonia lasianthus	5	Yes	<u>FACW</u>	FACU species 5 x 4 = 20
2. Morella cerifera	5	Yes	FAC	UPL species 2 x 5 = 10
3. Serenoa repens	3	No	FACU	Column Totals: 72 (A) 162 (B)
4. Lyonia lucida	15	Yes	FACW	Prevalence Index = B/A = 2.25
5. Pinus elliottii	3	No	FACW	Hydrophytic Vegetation Indicators:
6. Ilex glabra	1	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
7. Rhus copallinum	1	No	UPL	X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
	33	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:		of total cover:	7	robicinatio riyarophiyaro vegetation (Explain)
	2070	or total cover.		
Herb Stratum (Plot size: 10m x 10m)			0.01	
Woodwardia virginica	10	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. <u>Lyonia lucida</u>	15	Yes	<u>FACW</u>	present, unless disturbed or problematic.
3. Andropogon virginicus	8	Yes	<u>FAC</u>	Definitions of Four Vegetation Strata:
4. Xyris elliottii	1	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Pteridium aquilinum	2	No	FACU	more in diameter at breast height (DBH), regardless of
6. Gordonia lasianthus	1	No	FACW	height.
7. Cladonia sp.	1	No	UPL	
8.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				than 3 m. DBH and greater than 3.20 it (1 m) tail.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
12.		Tatal Cause		Manda Vine All was deviced a greater than 2.20 ft in
		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in height.
50% of total cover:	9 20%	of total cover:	8	noight.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Smilax laurifolia	1	<u>No</u>	FACW	
2				
3.				
4				
5.				Hadran badla
	1	=Total Cover		Hydrophytic Vegetation
50% of total cover: 1		of total cover:	1	Present? Yes X No
Remarks: (If observed, list morphological adaptation	is below.)			
No canopy stratum observed in plot.				

Sampling Point: W8_WD12

SOIL Sampling Point: W8_WD12

	ription: (Describe t	o the dept				ator or co	onfirm the absence	of indicators.)
Depth	Matrix			K Featur		. 2		
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-3	10YR 2/1						Muck	organic bodies
								Remaining 90% of profile consists of
								living root matter.
3-6	10YR 2/1						Sandy	Remaining soil unmasked 10YR 5/1
6-13	10YR 5/1	90					Sandy	Remaining soil unmasked 10YR 6/1
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applica	ble to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol ((A1)		Thin Dark Su	-			1 cm N	luck (A9) (LRR O)
	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	luck (A10) (LRR S)
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	side MLRA 150A)
	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)
X Organic I	Bodies (A6) (LRR, P	, T, U)	Depleted Ma	trix (F3)			(outs	side MLRA 150A, 150B)
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	llous Bright Floodplain Soils (F20)
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLF	RA 153B)
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	arent Material (F21)
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR A	A 151)	Very S	hallow Dark Surface (F22)
Coast Pra	airie Redox (A16) (M	LRA 150A)	Iron-Mangan	ese Mas	sses (F12	2) (LRR C	D, P, T) (outs	side MLRA 138, 152A in FL, 154)
Sandy M	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa		-		Barrier	Islands Low Chroma Matrix (TS7)
Sandy Gl	leyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(MLF	RA 153B, 153D)
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 15	50B) Other (Explain in Remarks)
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)	
Dark Sur	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2		
	e Below Surface (S8))	(MLRA 14					tors of hydrophytic vegetation and
(LRR S	S, T, U)		Very Shallow		,	,		and hydrology must be present,
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
	.ayer (if observed):							
Type: <u> </u>	None						Hydric Soil Prese	ont? You V No
							nyaric Soil Prese	ent? Yes X No No
Remarks: Soil boring is	terminated at 13 inc	hes due to	high water table N	lo evide	nce of re	cent soil	alteration	
			J					



W8_WD12



Project/Site: Trail Ridge South	City/County: Clay		Sampling Date: 01/30/19
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL	Sampling Point: W8-UD12
Investigator(s): N. Adams, B. McGee	Section, Township, Ran	ge: 18, -7, 23	
Landform (hillside, terrace, etc.): hillside	Local relief (concave, conv	/ex, none): none	Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 15	 3A Lat: 29°53'21.9"N Lor	ig: -82°02.43.1"W	Datum: WGS 84
Soil Map Unit Name: Leon fine sand, 0-2 per		NWI classifica	
Are climatic / hydrologic conditions on the site	·		explain in Remarks.)
Are Vegetation, Soil, or Hydrold	· —	nal Circumstances" present	
Are Vegetation , Soil , or Hydrold	ogy naturally problematic? (If needed	, explain any answers in R	emarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point loo	cations, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes No X Is the Sampled Ar	ea	
' ' '	Yes No X within a Wetland?		No X
	Yes X No		
Remarks: Rainfall conditions for Clay County were high- inches of rainfall was recorded at the site dur	er than normal for January and are 5.94 inches a ing the prior week.	bove average for the prior	12 months. An average 1.86
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	eks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetat	ed Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	s (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)		· ·
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard FAC-Neutral Test	
Water-Stained Leaves (B9)		Sphagnum Moss	,
Field Observations:		opnagnam wood	(DO) (ERRY 1,0)
	No X Depth (inches):		
	No Depth (inches):10.5		
Saturation Present? Yes X		and Hydrology Present?	Yes X No
(includes capillary fringe)		, 0,	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections)	if available:	
Remarks:			

VEGETATION (Four Strata) – Use scientif	ic names o	of plants.		Sampling Point:	W8-UD12
Tree Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
3.				Total Number of Dominant	``
4.				Species Across All Strata:	2 (B)
5.				Percent of Dominant Species	
6				That Are OBL, FACW, or FAC:	0.0% (A/B)
7				Prevalence Index worksheet:	
8				Total % Cover of: M	ultiply by:
	=	Total Cover		OBL species0 x 1 =	0
50% of total cover:	20%	of total cover:		FACW species 38 x 2 =	76
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 0 x 3 =	0
1. Gordonia lasianthus	15	No	FACW	FACU species75 x 4 =	300
2. Serenoa repens	55	Yes	FACU	UPL species 0 x 5 =	0
3. Ilex glabra	15	No	FACW	Column Totals: 113 (A)	(B)
4.				Prevalence Index = B/A =	3.33
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Ve	getation
7.				2 - Dominance Test is >50%	
8				3 - Prevalence Index is ≤3.0 ¹	. 1
		=Total Cover		Problematic Hydrophytic Vegetati	on' (Explain)
50% of total cover: 43	3 20%	of total cover:	17		
Herb Stratum (Plot size: 10m x 10m)					
1. Gordonia lasianthus	3	No	FACW	¹ Indicators of hydric soil and wetland I	
2. Ilex glabra	5	No No	FACW	present, unless disturbed or problema	
3. Pteridium aquilinum	3	No	FACU	Definitions of Four Vegetation Stra	
4. Vaccinium myrsinites	15	Yes	FACU	Tree – Woody plants, excluding vines more in diameter at breast height (DB	
5. <u>Lyonia ferruginea</u>	2	<u>No</u>	<u>FACU</u>	height.	iii), regardiess or
6					
8.				Sapling/Shrub – Woody plants, exclu	
9.				than 3 in. DBH and greater than 3.28	ft (1 m) tall.
10					
10				Herb – All herbaceous (non-woody) p	
12.				of size, and woody plants less than 3.	28 ft tall.
	28 =	Total Cover		Woody Vine – All woody vines greate	er than 3 28 ft in
50% of total cover: 14		of total cover:	6	height.	7 than 0.20 it iii
Woody Vine Stratum (Plot size: 10m x 10m)		or total cover.			
1					
2.					
3.					
4.					
5.				1	
		Total Cover		Hydrophytic Vegetation	
50% of total cover:	20%	of total cover:		-	X
Remarks: (If observed, list morphological adaptation	ne helow)			<u> </u>	
No canopy or woody vine stratum observed in plot.	io bolow.j				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

SOIL Sampling Point: W8-UD12

		o the dep				ator or co	onfirm the absence	of indicators.)	
Depth (inches)	Color (moist)	 -	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Ren	narks
0-10	10YR 3/1	50	Odioi (moist)		Турс		Sandy		nmasked 10YR 6/1
10-15	10YR 4/1	70	10YR 5/1	10			Sandy		nmasked 10YR 6/1
10-13	1011/4/1		1011 3/1				Sanuy	Remaining soil u	IIIIaskeu 101K 0/1
¹Type: C=Co	 ncentration, D=Deple	 etion RM=	Reduced Matrix M	 IS=Mas	—— ked Sand		² Location:	PL=Pore Lining, M=	
	ndicators: (Applical					J Grains.		for Problematic Hy	
Histosol (ole to all i	Thin Dark Su			S T U)		luck (A9) (LRR O)	une dons .
	ipedon (A2)		Barrier Island	-				fuck (A10) (LRR S)	
Black His			(MLRA 15			,		Prairie Redox (A16)	
	n Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)	
<u> </u>	Layers (A5)		Loamy Gleye	•	` , '		•	ed Vertic (F18)	
	Bodies (A6) (LRR, P,	T. U)	Depleted Ma					side MLRA 150A, 15	50B)
	cky Mineral (A7) (LR		Redox Dark				•	ont Floodplain Soils	•
	esence (A8) (LRR U)		Depleted Dai					llous Bright Floodpla	
	ck (A9) (LRR P, T)		Redox Depre		` '			RA 153B)	(- /
	Below Dark Surface	(A11)	 Marl (F10) (L		(- /		•	arent Material (F21)	
	rk Surface (A12)	()	Depleted Ocl		1) (MLR /	A 151)		hallow Dark Surface	(F22)
	airie Redox (A16) (M	LRA 150A					′	side MLRA 138, 152	` '
	ucky Mineral (S1) (L I		Umbric Surfa		•	, .		Islands Low Chroma	a Matrix (TS7)
Sandy GI	eyed Matrix (S4)		Delta Ochric					RA 153B, 153D)	` ,
Sandy Re			Reduced Ver	. , .			5 0B) Other (Explain in Remarks))
	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR			
Dark Surf	face (S7) (LRR P, S,	T, U)	Anomalous E						
	Below Surface (S8)		(MLRA 149	-				tors of hydrophytic v	egetation and
(LRR S			Very Shallow					and hydrology must	•
			(MLRA 13	8, 152A	in FL, 1	54)		ss disturbed or prob	-
	ayer (if observed):								
Type: <u>r</u>	none								
Depth (in	ches):						Hydric Soil Prese	ent? Yes	NoX
Remarks: Soil boring is	terminated at 15 incl	nes due to	high water table. N	lo evide	ence of re	cent soil	alteration.		



W8_UD12



Project/Site: Trail Ridge South	Cit	ty/County: Bradford	Sampling Date: 12/5/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD13				
Investigator(s): B.McGee, N.Adams	Section	n, Township, Range: 13, -7, 22					
Landform (hillside, terrace, etc.): terrace	Local relie	ef (concave, convex, none): none	Slope (%): 0				
Subregion (LRR or MLRA): LRR T, MLRA 15	3A Lat: 29° 53' 08.77"	Long: -82° 03'01.10"	Datum: WGS 84				
Soil Map Unit Name: Starke mucky fine sand	_		ation: Uplnad				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	, explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed	l? Are "Normal Circumstances" preser	nt? Yes X No				
Are Vegetation, Soil, or Hydrold	· · · · · · · · · · · · · · · · · · ·						
SUMMARY OF FINDINGS – Attach			·				
Hydrophytic Vegetation Present?	Yes X No Is 1	the Sampled Area					
		thin a Wetland? Yes X	No				
I	Yes X No						
Remarks:							
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows have dominan cross slope, this can result in ponding of water	ing the prior week. The site has lasonal high water table resulting tly been constructed perpendicu	been historically converted to pine plantati in wetland vegetation within the furrow, ho lar to the slope per silviculture BMPs. Sin	on and has beds/furrows. In owever upland plants remain				
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators	s (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cra					
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U						
X Saturation (A3)	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on L	Living Roots (C3) X Dry-Season Wa	X Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron (C4) Crayfish Burrow	s (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Til	lled Soils (C6) Saturation Visibl	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	d (D3)				
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Tes	st (D5)				
Water-Stained Leaves (B9)		Sphagnum Moss	s (D8) (LRR T,U)				
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches):	14					
Saturation Present? Yes X	No Depth (inches):	8 Wetland Hydrology Present?	YesX No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previo	ous inspections), if available:					
Remarks:							
The natural landform has been converted for	silviculture practices.						

_	01.1. (01.1.1	Absolute	Dominant	Indicator	
	e Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. 2.					Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3. 4.					Total Number of Dominant Species Across All Strata: 5 (B)
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
			=Total Cover		OBL species 3 x 1 = 3
	50% of total cover:	20%	of total cover:		FACW species 44 x 2 = 88
Sa	oling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 17 x 3 = 51
1.	Gordonia lasianthus	25	Yes	FACW	FACU species 0 x 4 = 0
2.	Lyonia lucida	3	No	FACW	UPL species 0 x 5 = 0
3.	Vaccinium corymbosum	3	No	FACW	Column Totals: 64 (A) 142 (B)
4.					Prevalence Index = B/A = 2.22
5.					Hydrophytic Vegetation Indicators:
6.					1 - Rapid Test for Hydrophytic Vegetation
7.					X 2 - Dominance Test is >50%
8.	_				X 3 - Prevalence Index is ≤3.0 ¹
		31 :	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover:	6 20%	of total cover:	7	<u> </u>
Не	rb Stratum (Plot size: 10m x 10m)				
1.	Osmundastrum cinnamomeum	8	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2.	Gordonia lasianthus	3	Yes	FACW	present, unless disturbed or problematic.
3.	Woodwardia virginica	3	Yes	OBL	Definitions of Four Vegetation Strata:
4.	Vaccinium corymbosum	1	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.	Scleria baldwinii	1	No	FACW	more in diameter at breast height (DBH), regardless of
6.					height.
7.					
8.					Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.					than 3 iii. DBH and greater than 3.26 it (1 iii) tali.
10.					
11.					Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.					of size, and woody plants less than 5.26 it tall.
		16	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
	50% of total cover:		of total cover:	4	height.
Wo	oody Vine Stratum (Plot size: 10m x 10m)				
1.	Vitis rotundifolia	15	Yes	FAC	
2.	Gelsemium sempervirens	2	No	FAC	
3.					
4.					
5.					
٠.	-	17	Total Cover		Hydrophytic
	50% of total cover:		of total cover:	4	Vegetation Present? Yes X No
_				<u> </u>	132 // 130 //
Re	marks: (If observed, list morphological adaptatior	ns below.)			

Planted Pinus elliottii makes up the canopy with 60% cover. Not included in calculations because it was planted.

Sampling Point: W8-WD13

SOIL Sampling Point: W8-WD13

	ription: (Describe to	o the dept				itor or co	onfirm the absence	of indicators.)			
Depth	Matrix			Feature			- .				
(inches)	Color (moist)	<u></u> %	Color (moist)		Type ¹	Loc ²	Texture	Remarks			
0-6	10YR 2/1	90		Sandy Remaining 10% unmasked							
6-8	10YR 2/1	90	10YR 5/1	10	D	M	Sandy				
8-20	10YR 3/1	80	10YR 5/1		<u>D</u>	<u>M</u>	Sandy				
¹Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masl	ed Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil I	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :			
Histosol ((A1)		Thin Dark Su	rface (S	9) (LRR	S, T, U)	1 cm N	/luck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 153	3B, 153	D)		Coast	Prairie Redox (A16)			
Hydroger	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(out	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduc	ed Vertic (F18)			
Organic I	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(out	side MLRA 150A, 150B)			
5 cm Mu	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark S	Surface	(F6)		Piedm	ont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	alous Bright Floodplain Soils (F20)			
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLF	RA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Pa	Red Parent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Och	nric (F11	1) (MLR A	A 151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) (M	LRA 150A	Iron-Mangane	ese Mas	ses (F12	2) (LRR (D, P, T) (outside MLRA 138, 152A in FL, 154)				
Sandy M	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ce (F13) (LRR P	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gl	leyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	1)	(MLRA 153B, 153D)				
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 15	Other	(Explain in Remarks)			
X Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
X Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous E	Bright Flo	oodplain	Soils (F2	0)				
Polyvalue	e Below Surface (S8)		(MLRA 149	9A, 1530	C, 153D)		³ Indica	tors of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,				
	(Elike 6, 1, 6) (MLRA 138, 152A in FL, 15-					54)	unle	ss disturbed or problematic.			
	.ayer (if observed): None										
Depth (in							Hydric Soil Pres	ent? Yes X No			
Remarks:	, <u> </u>										
	ne plot is bedded and	furrowed.	No evidence of re-	cent soi	l alteration	on.					



W8_WD13



Project/Site: Trail Ridge South	City/County	Bradford	Sampling Date: 12/5/18			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-UD13			
Investigator(s): B.McGee, N.Adams	Section, Townsh	ip, Range: 13, -7, 22				
Landform (hillside, terrace, etc.): terrace	Local relief (concav	re, convex, none): none	Slope (%): 0			
Subregion (LRR or MLRA): LRR T, MLRA 15	·	Long: -82° 03' 00.35"W	Datum: WGS 84			
Soil Map Unit Name: Leon sand, 0-2 percent		NWI classificat				
Are climatic / hydrologic conditions on the site	typical for this time of year?	res X No (If no, e	explain in Remarks.)			
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are	e "Normal Circumstances" present	? Yes X No			
Are Vegetation, Soil, or Hydrolo		needed, explain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach		nt locations, transects, in	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes X No Is the Samp	oled Area				
	Yes No X within a We		No X			
l ·	Yes X No					
Remarks:	 ,					
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows have dominan cross slope, this can result in ponding of water	ring the prior week. The site has been histo asonal high water table resulting in wetlan utly been constructed perpendicular to the	orically converted to pine plantation d vegetation within the furrow, how slope per silviculture BMPs. Since	n and has beds/furrows. In vever upland plants remain			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Crack	· · · · · · · · · · · · · · · · · · ·			
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres on Living Roc		3) Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Visible	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	(D3)			
Inundation Visible on Aerial Imagery (B7	<u> </u>	X FAC-Neutral Test	(D5)			
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)			
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	YesX No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspe	ctions), if available:				
Demonto						
Remarks: The natural landform has been converted for	silviculture practices. Sphagnum moss lo	ocated at the bottom of the furrows	in less than 1% coverage.			

			solute	Dominant	Indicator	
	ee Stratum (Plot size: 10m x 10m)	_%	Cover	Species?	Status	Dominance Test worksheet:
1. 2.	Magnolia virginiana	_	3	No No	FACW_	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
3. 4.						Total Number of Dominant Species Across All Strata: 5 (B)
5. 6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
7.						Prevalence Index worksheet:
8.						Total % Cover of: Multiply by:
			3	=Total Cover		OBL species 5 x 1 = 5
	50% of total cover:	2	20%	of total cover:	1	FACW species 32 x 2 = 64
Sa	pling/Shrub Stratum (Plot size: 10m x 10m)	_			FAC species 70 x 3 = 210
1.	Serenoa repens	• *	10	Yes	FACU	FACU species 10 x 4 = 40
2.	llex glabra		12	Yes	FACW	UPL species 0 x 5 = 0
3.	Ilex coriacea		3	No	FACW	Column Totals: 117 (A) 319 (B)
4.	Pinus elliottii		1	No	FACW	Prevalence Index = B/A = 2.73
5.	Gordonia lasianthus		1	No	FACW	Hydrophytic Vegetation Indicators:
6.						1 - Rapid Test for Hydrophytic Vegetation
7.		. —				X 2 - Dominance Test is >50%
8.	-					3 - Prevalence Index is ≤3.0¹
-		_	27	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover:	 14		of total cover:	6	(
Нο	rb Stratum (Plot size: 10m x 10m)			or total cover.		
1.	Andropogon virginicus		60	Yes	FAC	1
2.	Scleria baldwinii	_	10	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Dichanthelium dichotomum	_	2	No	FAC	Definitions of Four Vegetation Strata:
3. 4.	Woodwardia virginica		5	No	OBL	
4 . 5.	Ilex glabra		2	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
	ilex glabra	_		INO	FACW	height.
6.		_				
7.		_				Sapling/Shrub – Woody plants, excluding vines, less
8.	-					than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.						
10	·	· —				Herb – All herbaceous (non-woody) plants, regardless
11	-					of size, and woody plants less than 3.28 ft tall.
12		_				l
		_		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
		40	_ 20%	of total cover:	16	height.
W	body Vine Stratum (Plot size: 10m x 10m)					
1.	Gelsemium sempervirens		1	<u>No</u>	<u>FAC</u>	
2.	Smilax bona-nox		2	Yes	FAC	
3.	Vitis rotundifolia		5	Yes	<u>FAC</u>	
4.						
5.	_					Hydrophytic
			8	=Total Cover		Vegetation
	50% of total cover:	4	_ 20%	of total cover:	2	Present?
Re	marks: (If observed, list morphological adaptati	ons be	elow)			•

Planted Pinus elliottii makes up the canopy with 60% cover. Not included in calculations because it was planted.

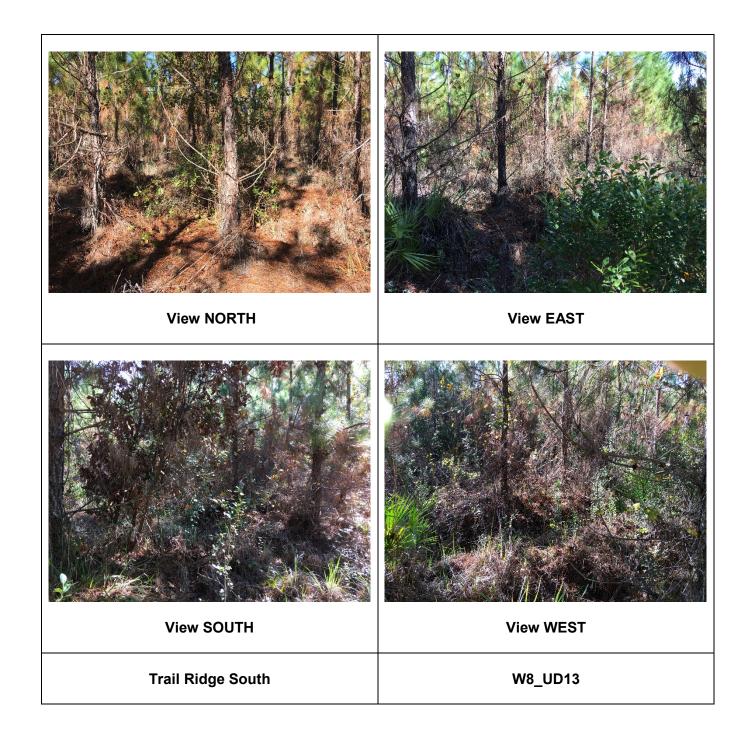
Sampling Point: W8-UD13

SOIL Sampling Point: W8-UD13

		o the dep				ator or co	onfirm the absence	of indicators.)	
Depth (inches)	Color (moist)	 -	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Re	marks
0-13	10YR 2/1	50	Odioi (IIIolat)		Турс		Sandy		unmasked 10YR 6/1
								Tternaming 50 %	uninasked 1011(0/1
13-22	10YR 3/1	90	10YR 6/1	10	<u>D</u>	M	Sandy		
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M	=Matrix.
Hydric Soil In	ndicators: (Applicat	ole to all l	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic H	ydric Soils³:
Histosol ((A1)		Thin Dark Su	ırface (S	69) (LRR	S, T, U)	1 cm N	/luck (A9) (LRR O)	
	ipedon (A2)		Barrier Island			12)		Muck (A10) (LRR S	
Black His	,		(MLRA 15					Prairie Redox (A16)
<u> </u>	Sulfide (A4)		Loamy Muck	•	` , '	.RR O)	•	side MLRA 150A)	
	Layers (A5)	T 11)	Loamy Gleye					ed Vertic (F18)	LEOD)
	Bodies (A6) (LRR, P, cky Mineral (A7) (LR I		Depleted Mar Redox Dark S				•	s ide MLRA 150A , 1 ont Floodplain Soils	•
	esence (A8) (LRR U)	K P, 1, U)	Depleted Dai					alous Bright Floodp	
	ck (A9) (LRR P, T)		Redox Depre		` '			RA 153B)	an cone (1 20)
	Below Dark Surface	(A11)	Marl (F10) (L		()		•	arent Material (F21))
	rk Surface (A12)	,	Depleted Ocl		1) (MLR /	A 151)	Very S	hallow Dark Surfac	e (F22)
Coast Pra	airie Redox (A16) (M	LRA 150A	lron-Mangan	ese Ma	sses (F1	2) (LRR (O, P, T) (outs	side MLRA 138, 15	2A in FL, 154)
Sandy Mu	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chror	na Matrix (TS7)
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	51)	(MLF	RA 153B, 153D)	
Sandy Re			Reduced Ver	,	, ,		· —	(Explain in Remark	3)
	Matrix (S6)		Piedmont Flo						
	face (S7) (LRR P, S,		Anomalous E	-					
	e Below Surface (S8)		(MLRA 14				³ Indicators of hydrophytic vegetation and wetland hydrology must be present,		
(LRR S	s, I, U)		Very Shallow (MLRA 13		`	,	unless disturbed or problematic.		
Restrictive I	ayer (if observed):		(MEICA 100	0, 10 <u>2</u> A				.33 distarbed or pro	Dicinatio.
	None								
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No X
Remarks:							l		
Area within th	e plot is bedded and	furrowed.	No evidence of re	cent so	il alteratio	on.			



W8_UD13



Project/Site: Trail Ridge South	C	ity/County: Bradford	Sampling Date: 12/5/18			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State:	FL Sampling Point: W8-WD14			
Investigator(s): B.McGee, N.Adams	Section	n, Township, Range: 13,-7, 22				
Landform (hillside, terrace, etc.): depression	 Local rel	ief (concave, convex, none): concave	e Slope (%): 0			
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 02' 55.89"W				
Soil Map Unit Name: Leon sand 0 to 2 percer			assification: Upland			
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No	(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrold	ogy significantly disturbe	d? Are "Normal Circumstances"	present? Yes X No			
Are Vegetation, Soil, or Hydrold			ers in Remarks.)			
SUMMARY OF FINDINGS – Attach			·			
Hydrophytic Vegetation Present?	Yes X No Is	the Sampled Area				
			X No			
	Yes X No					
Remarks:						
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows have dominan cross slope, this can result in ponding of water	ing the prior week. The site has asonal high water table resultin itly been constructed perpendic	s been historically converted to pine p g in wetland vegetation within the furn ular to the slope per silviculture BMP:	plantation and has beds/furrows. In row, however upland plants remain			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Ind	licators (minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	· · · · · · · · · · · · · · · · · · ·	oil Cracks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)		Vegetated Concave Surface (B8)			
X High Water Table (A2)	Marl Deposits (B15) (LRR		Drainage Patterns (B10)			
X Saturation (A3)	Hydrogen Sulfide Odor (C1		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres on	Living Roots (C3) Dry-Seaso	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron	(C4) Crayfish E	Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in T	illed Soils (C6) Saturation	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorph	X Geomorphic Position (D2)			
Iron Deposits (B5)	Other (Explain in Remarks) Shallow A	quitard (D3)			
Inundation Visible on Aerial Imagery (B7))	X FAC-Neut	ral Test (D5)			
Water-Stained Leaves (B9)		X Sphagnun	n Moss (D8) (LRR T,U)			
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes X	No Depth (inches):	5.5				
Saturation Present? Yes X	No Depth (inches):	0 Wetland Hydrology Pre	sent? Yes X No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, prev	ious inspections), if available:				
Remarks:						
The natural landform has been converted for	silviculture practices.					

Gordonia lasianthus	% Cover 15	Species? Yes	Status FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant
Gordonia iasianthus	15	Yes	FAUW	That Are OBL, FACW, or FAC:4 (A) Total Number of Dominant
				Species Across All Strata: 4 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/E
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	15	=Total Cover		OBL species 1 x 1 = 1
50% of total cover: 8		of total cover:	3	FACW species 106 x 2 = 212
upling/Shrub Stratum (Plot size: 10m x 10m)		or total cover.		FAC species 2 x3 = 6
Gordonia lasianthus	20	Yes	FACW	FACU species 0 x 4 = 0
Gordonia lasianthus Ilex coriacea	50	Yes	FACW	UPL species 0 x 5 = 0
Lyonia lucida	 15		FACW	
<u> </u>	10	No No	- ACVV	Column Totals: 109 (A) 219 (E) Prevalence Index = B/A = 2.01
				Hydrophytic Vegetation Indicators:
				X 1 - Rapid Test for Hydrophytic Vegetation
		-		X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 43	20%	of total cover:	17	
erb Stratum (Plot size: 10m x 10m)				
Osmundastrum cinnamomeum	5	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must
Woodwardia virginica	1	No	OBL	present, unless disturbed or problematic.
		<u> </u>		Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
				more in diameter at breast height (DBH), regardless of
				height.
				Continue/Charaba Manda alondo avalendia a visa a la
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				than 5 m. DBH and greater than 5.20 ft (1 m) tail.
).				
				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
2.				of size, and woody plants less than 3.20 it tall.
	6	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 3		of total cover:	2	height.
oody Vine Stratum (Plot size: 10m x 10m)		5. 1514. 55761.		
	1	No	FACW	
Smilax laurifolia Vitis rotundifolia	2	No No	FAC	
vius iuluiiuiiuiia		INU	FAC	
				Hydrophytic
-	3	=Total Cover		Vegetation
50% of total cover: 2	20%	of total cover:	1	Present? Yes X No No

SOIL Sampling Point: W8-WD14

	ription: (Describe to	o the dept				tor or co	onfirm the absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	 _	Color (moist)	x Featur %	Type ¹	Loc ²	Toyturo	Remarks	
(inches)	Color (Illoist)		Color (moist)		туре		Texture	Remarks	
0-11.5	10YR 2/1	95					Sandy	Remaining soil unmasked 10YR 5/1	
¹ Type: C=Co	ncentration, D=Deple	etion. RM=I	Reduced Matrix. N	 IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.	
	ndicators: (Applicat							for Problematic Hydric Soils ³ :	
Histosol (Thin Dark Su			S, T, U)		Muck (A9) (LRR O)	
	ipedon (A2)		Barrier Island					Muck (A10) (LRR S)	
Black His			(MLRA 15		-	,		Prairie Redox (A16)	
— Hydroger	Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)	
	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)	
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(out	side MLRA 150A, 150B)	
5 cm Mud	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodplain Soils (F19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	alous Bright Floodplain Soils (F20)	
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLI	RA 153B)	
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	arent Material (F21)	
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR A	A 151)	Very S	hallow Dark Surface (F22)	
Coast Pra	airie Redox (A16) (M	LRA 150A)	Iron-Mangan	ese Ma	sses (F12	2) (LRR C	D, P, T) (out	side MLRA 138, 152A in FL, 154)	
	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ace (F13	3) (LRR P	P, T, U)		Islands Low Chroma Matrix (TS7)	
	eyed Matrix (S4)		Delta Ochric	. , .		•	•	RA 153B, 153D)	
	edox (S5)		Reduced Ve	•	, ,		· —	(Explain in Remarks)	
··	Matrix (S6)		Piedmont Flo						
	face (S7) (LRR P, S,		Anomalous E	-					
	Below Surface (S8)		(MLRA 14				³ Indicators of hydrophytic vegetation and		
(LRR S	s, I, U)		Very Shallow		`	,	wetland hydrology must be present, unless disturbed or problematic.		
			(MLRA 13	0, 152A	III FL, 13	54)	unie	ss disturbed of problematic.	
	ayer (if observed):								
· · -	None								
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No	
Remarks: Soil boring is	terminated at 11.5 in	ches due t	o high water table	Due to	the prof	ile beina	terminated at 11.5 in	nches, that it is assumed that the layer	
	k layer has a chroma		- ··· g ·· · · · · · · · · · · · · · · · · · ·					,	



W8_WD14



Applicant/Owner: The Chemours Company FC, LLC Nestigator(s): B.McGee, N.Adams Section, Township, Range: 13,-7, 22 Landform (hillside, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0 Subregion (LRR or MLRA): LRR T, MLRA 153A
Local relief (concave, convex, none): concave Slope (%): 0 Subregion (LRR or MLRA): LRR T, MLRA 153A Lat: 29° 53′ 03.24″N Long: -82° 02′ 56.05″W Datum: WGS 84 Soil Map Unit Name: Leon sand 0 to 2 percent slopes NWI classification: Upland Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Subregion (LRR or MLRA): LRR T, MLRA 153A Lat: 29° 53′ 03.24″N Long: -82° 02′ 56.05″W Datum: WGS 84 Soil Map Unit Name: Leon sand 0 to 2 percent slopes NWI classification: Upland Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Soil Map Unit Name: Leon sand 0 to 2 percent slopes NWI classification: Upland Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Soil Map Unit Name: Leon sand 0 to 2 percent slopes NWI classification: Upland Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes _X No
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes _X No
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Is the Sampled Area
Hydric Soil Present? Yes No X within a Wetland? Yes No X
Wetland Hydrology Present? Yes X No
Remarks:
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows have dominantly been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2)
Iron Deposits (B5) X Other (Explain in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T,U)
Field Observations:
Surface Water Present? Yes No X Depth (inches):
Water Table Present? Yes No X Depth (inches):
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Not available
Remarks:
The natural landform has been converted for silviculture practices. It is expected that during the wet season the water table is present with the top 12 inches of the soil profile.

Tree Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator	Dominanaa Taat wadahaati
1.	% Cover	Species?	Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
5.				Percent of Dominant Species That Are ORL FACILITY or FACILITY OF F
6 7.				That Are OBL, FACW, or FAC:(A/B) Prevalence Index worksheet:
7. 8.				Total % Cover of: Multiply by:
o		Total Cover		OBL species 0 x1 = 0
50% of total cover:		of total cover:		FACW species 17 x 2 = 34
Sapling/Shrub Stratum (Plot size: 10m x 10m)		or total cover.		FAC species 13 x 3 = 39
1. Magnolia virginiana	1	No	FACW	FACU species 30 x 4 = 120
Serenoa repens	20	Yes	FACU	UPL species 0 x 5 = 0
3. Gordonia lasianthus	5	No	FACW	Column Totals: 60 (A) 193 (B)
4. Ilex coriacea		No	FACW	Prevalence Index = B/A = 3.22
5. Ilex glabra		No	FACW	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	33 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 17		of total cover:	7	(Explain)
Herb Stratum (Plot size: 10m x 10m)		or total cover.		
Pteridium aquilinum	10	Yes	FACU	1
2. Ilex glabra	2	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Gordonia lasianthus	1	No	FACW	Definitions of Four Vegetation Strata:
4. Scleria baldwinii	1	No	FACW	_
5.	<u> </u>		171011	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
6.				height.
7.				
8.				Sapling/Shrub – Woody plants, excluding vines, less
9.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
	14 =	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 7		of total cover:	3	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
Gelsemium sempervirens	8	Yes	FAC	
Vitis rotundifolia		Yes	FAC	
3.				
4.				
5.				
	13 =	Total Cover		Hydrophytic
50% of total cover: 7		of total cover:	3	Vegetation Present? Yes No X
Remarks: (If observed, list morphological adaptation Planted Pinus elliottii makes up the canopy with 70%	,	included in cal	culations bed	cause it was planted.

rianted i mas emotti makes up the earlopy with 7070 cover.

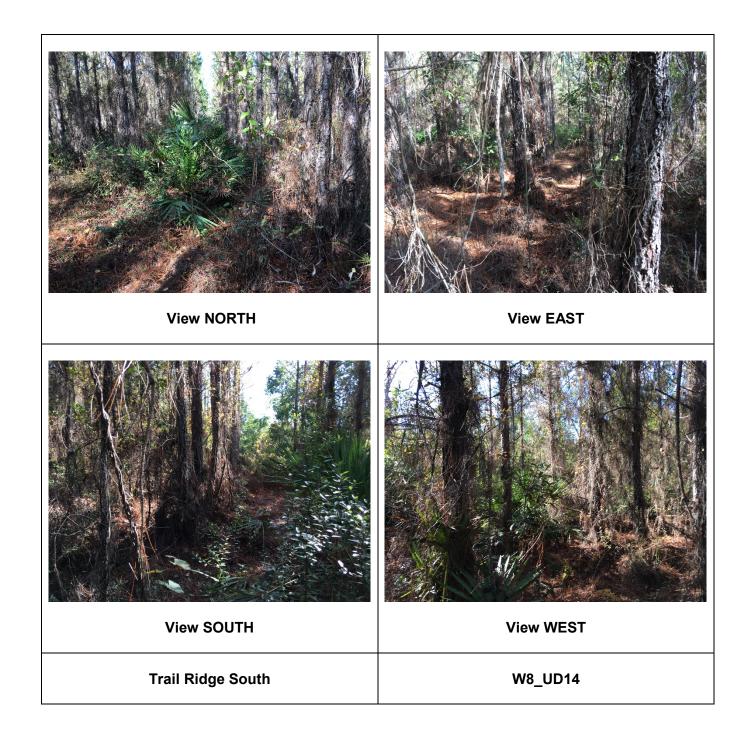
Sampling Point: W8-UD14

SOIL Sampling Point: W8-UD14

		o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Color (moist)	<u></u> %	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Re	marks		
0-9	10YR 2/1	40	Color (Illoist)		Туре		Sandy		unmasked 10YR 6/1		
9-22	10YR 3/1		10YR 5/1		 	_M	Sandy	Remaining	70% 10YR 4/1		
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M	=Matrix.		
Hydric Soil II	ndicators: (Applicat	ole to all l	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic H	ydric Soils³:		
Histosol ((A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)			
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S	•		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	d Matri	x (F2)		Reduce	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outs	side MLRA 150A, 1	50B)		
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils	s (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dai	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)				
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (L				Red Pa	arent Material (F21))		
Thick Da	rk Surface (A12)		Depleted Ocl	nric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)				
	airie Redox (A16) (M		i) Iron-Mangan	ese Ma	sses (F12	2) (LRR (
	ucky Mineral (S1) (Li	RR O, S)	Umbric Surfa	-			Barrier Islands Low Chroma Matrix (TS7)				
	eyed Matrix (S4)		Delta Ochric				•	RA 153B, 153D)			
	edox (S5)		Reduced Ver	•	, ,		· — `	Explain in Remark	3)		
	Matrix (S6)		Piedmont Flo								
	face (S7) (LRR P, S,		Anomalous E	-							
	Below Surface (S8)		(MLRA 149					tors of hydrophytic	_		
(LRR S	s, T, U)		Very Shallow		•	,	wetland hydrology must be present, unless disturbed or problematic.				
Restrictive I	aver (if observed):		(MLRA 13	5, 132A	, III F E, 1		T unie	ss disturbed or pro	Jiemanc.		
	None										
Depth (in							Hydric Soil Prese	ent? Yes	NoX		
Remarks:							!				
Area within pl	ot is bedded and furr	owed. No	evidence of recen	t soil alt	eration.						



W8_UD14



Project/Site: Trail Ridge South	City/Cou	ınty: Bradford	Sampling Date: 12/5/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD15
Investigator(s): D.Sank, D.LeJeune	Section, Tow	nship, Range: <u>13, -7, 22</u>	
Landform (hillside, terrace, etc.): depression	Local relief (cor	ncave, convex, none): concave	Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 3' 8.67"W	Datum: WGS 84
Soil Map Unit Name: Pottsburg sand		NWI classifica	
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed?	Are "Normal Circumstances" present	t? Yes X No
Are Vegetation, Soil, or Hydrolo		(If needed, explain any answers in R	emarks.)
SUMMARY OF FINDINGS – Attach			
Hydrophytic Vegetation Present?	Yes X No Is the Sa	ampled Area	
1 , , , ,		Wetland? Yes X	No
	Yes X No		
Remarks:			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows have dominan cross slope, this can result in ponding of water	ring the prior week. The site has been assonal high water table resulting in wently been constructed perpendicular to	historically converted to pine plantatic stland vegetation within the furrow, ho the slope per silviculture BMPs. Sinc	on and has beds/furrows. In wever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		·	(minimum of two required)
Primary Indicators (minimum of one is require		Surface Soil Crac	
X Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
Water Marks (B1)	X Oxidized Rhizospheres on Living		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled So Thin Muck Surface (C7)		e on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)	X Geomorphic Posi Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7		X FAC-Neutral Tes	` ,
Water-Stained Leaves (B9))	x Sphagnum Moss	` '
Field Observations:			(DO) (LIKE 1,0)
	No Depth (inches):1		
	No X Depth (inches):	·	
Saturation Present? Yes	No X Depth (inches):	. Wetland Hydrology Present?	Yes X No
(includes capillary fringe)	Deput (menes).	· Wettand Hydrology Fresents	163 <u>X</u> 110
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous in	spections), if available:	
D			
Remarks: The natural landform has been converted for	silviculture practices.		

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1.				Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 2 (A)
3				Total Number of Dominant Species Across All Strata: 3 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 8 x 1 = 8
50% of total cover:		of total cover:		FACW species 20 x 2 = 40
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 11 x 3 = 33
1				FACU species 8 x 4 = 32
2				UPL species 0 x 5 = 0
3.				Column Totals: 47 (A) 113 (B)
4.				Prevalence Index = B/A = 2.40
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
·		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:		of total cover:		
	20%	or total cover.		
Herb Stratum (Plot size: 10m x 10m)	10	Voo	F AC	1,
Morella cerifera Contenti la cianthus		Yes .	FAC	¹ Indicators of hydric soil and wetland hydrology must be
Gordonia lasianthus Serenoa repens	8 8	Yes Yes	FACW FACU	present, unless disturbed or problematic.
	<u>°</u>			Definitions of Four Vegetation Strata:
4. Lyonia lucida		No No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Ilex myrtifolia		No No	FACW	height.
6. Vaccinium corymbosum		No No	FACW	
7. Woodwardia virginica		No No	OBL	Sapling/Shrub – Woody plants, excluding vines, less
8. Osmundastrum cinnamomeum	5	No No	FACW	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9. Andropogon glomeratus		No No	FACW	
10. Lachnanthes caroliniana		No .	OBL	Herb – All herbaceous (non-woody) plants, regardless
11. Eriocaulon compressum		No	OBL	of size, and woody plants less than 3.28 ft tall.
12. Rhynchospora nitens	2	<u>No</u>	OBL	
		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 23	20%	of total cover:	10	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Vitis rotundifolia	1	No	FAC	
2				
3				
4				
5				Hydrophytic
	1	=Total Cover		Vegetation
50% of total cover:1	20%	of total cover:	1	Present? Yes X No No
Pamarka: (If absorved list marphalogical adoptation	- I I \			1

Remarks: (If observed, list morphological adaptations below.)

Planted Pinus elliottii makes up the canopy with 80% cover. Not included in the calculations because it was planted. No shrubs observed within the plot.

Sampling Point: W8-WD15

SOIL Sampling Point: W8-WD15

	ription: (Describe to	o the dept				itor or co	onfirm the absence	of indicators.)				
Depth (inches)	Matrix	<u></u> %		Featur %		Loc ²	Toyturo	Domonico				
(inches) 0-4	Color (moist) 10YR 3/1	60	Color (moist)		Type ¹	LOC	Texture Sandy	Remarks Remaining 40% unmasked 10YR 6/1				
4-11	10YR 3/1	60	10YR 6/2	10			Sandy	Remaining 30% unmasked 10YR 6/1				
11-15	10YR 3/1	10	10YR 6/4	5	C	PL						
11-13	1011(3/1		10110/4				Sandy Distinct redox concentrations Demaining 95% upmarked 10VD 5/					
								Remaining 85% unmasked 10YR 5/1				
¹Type: C=Co	ncentration, D=Deple		:Reduced Matrix M	S=Mas	—— ked Sand		2l ocation	PL=Pore Lining, M=Matrix.				
	ndicators: (Applicat					Oranis.		for Problematic Hydric Soils ³ :				
Histosol (Jie to all L	Thin Dark Su			S T U)		fluck (A9) (LRR O)				
	ipedon (A2)		Barrier Island	•	, ,			Muck (A10) (LRR S)				
Black His			(MLRA 153		-	,		Prairie Redox (A16)				
	n Sulfide (A4)		Loamy Mucky			RR O)		side MLRA 150A)				
	Layers (A5)		Loamy Gleye	•	. , .		•	ed Vertic (F18)				
	Bodies (A6) (LRR, P,	T II)	Depleted Mat					side MLRA 150A, 150B)				
	cky Mineral (A7) (LRI		Redox Dark S				•	ont Floodplain Soils (F19) (LRR P, T)				
	esence (A8) (LRR U)	, ., 0,	Depleted Dar		` '			alous Bright Floodplain Soils (F20)				
	ck (A9) (LRR P, T)		Redox Depre		` '		(MLRA 153B)					
	Below Dark Surface	(A11)	Marl (F10) (L		(. 5)		•	Red Parent Material (F21)				
	rk Surface (A12)	(,	Depleted Och		1) (MLR	A 151)	Very Shallow Dark Surface (F22)					
	airie Redox (A16) (M	LRA 150A		-								
	ucky Mineral (S1) (LF		/ Umbric Surfa		,	, ,	Barrier Islands Low Chroma Matrix (TS7)					
	eyed Matrix (S4)	, ,	Delta Ochric	-			(MLRA 153B, 153D)					
Sandy Re				Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)								
X Stripped I				edmont Floodplain Soils (F19) (MLRA 149A)								
Dark Surf	face (S7) (LRR P, S,	T, U)	Anomalous B		-							
	Below Surface (S8)		(MLRA 149	-		-	³ Indicators of hydrophytic vegetation and					
(LRR S			Very Shallow				wetland hydrology must be present,					
`			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.					
	ayer (if observed):											
Type: <u>N</u> Depth (in	None ches):						Hydric Soil Prese	ent? Yes X No				
							Tryunc con ries	163 <u>X</u> 160				
Remarks: Soil boring is	terminated at 15 inch	nes due to	high water table.									



W8_WD15



Project/Site: Trail Ridge South	City/County: Brad	ford Sampling Date: 12/5/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W8-UD15				
Investigator(s): D.Sank, D.LeJeune	Section, Township, Rai	nge: 13, -7, 22				
Landform (hillside, terrace, etc.): terrace	Local relief (concave, con					
Subregion (LRR or MLRA): LRR T, MLRA 15		ng: -82° 3' 7.76" Datum: WGS 84				
	Lat. 29 32 44.90					
Soil Map Unit Name: Pottsburg sand	 	NWI classification: Upland				
Are climatic / hydrologic conditions on the site						
Are Vegetation, Soil, or Hydrol		nal Circumstances" present? Yes X No				
Are Vegetation, Soil, or Hydrol	ogynaturally problematic? (If needed	d, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing sampling point lo	cations, transects, important features, etc.				
Hydrophytic Vegetation Present?	Yes X No Is the Sampled A	rea				
	Yes No X within a Wetland?					
	Yes X No					
Remarks:						
inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows have dominan	ring the prior week. The site has been historically asonal high water table resulting in wetland vege	above average for the prior 12 months. An average 1.54 converted to pine plantation and has beds/furrows. In etation within the furrow, however upland plants remain per silviculture BMPs. Since furrows are constructed ds.				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)				
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)				
	No X Depth (inches): No Depth (inches): 12 No Depth (inches): 10 Weth	and Hydrology Present? Yes X No				
	nitoring well, aerial photos, previous inspections)), if available:				
Remarks: The natural landform has been converted for	silviculture practices. Sphagnum observed in th	ne bottom of the furrows.				

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

/EGETATION (Four Strata) – Use scientif		-		Sampling Point: W8-UD15
<u>Tree Stratum</u> (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3.				Total Number of Dominant
4		-		Species Across All Strata: 3 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	:	=Total Cover		OBL species 5 x 1 = 5
50% of total cover:	20%	of total cover:		FACW species 9 x 2 = 18
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 19 x 3 = 57
1. Morella cerifera	2	No	FAC	FACU species 2 x 4 = 8
2. Serenoa repens	2	No	FACU	UPL species 0 x 5 = 0
3.				Column Totals: 35 (A) 88 (B)
4.				Prevalence Index = B/A = 2.51
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
0.	4 :	=Total Cover		
500/ of total anyon. 0			4	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2	20%	of total cover:	1	
Herb Stratum (Plot size: 10m x 10m)				
Osmundastrum cinnamomeum	5	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2. Vaccinium corymbosum	2	No	FACW	present, unless disturbed or problematic.
3. Dichanthelium dichotomum	5	Yes	FAC	Definitions of Four Vegetation Strata:
4. Lachnanthes caroliniana	2	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Woodwardia virginica	3	No	OBL	more in diameter at breast height (DBH), regardless of
6. Gordonia lasianthus	2	No	FACW	height.
7.				Sanling/Shrub Woody plants evaluding vines less
8				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				and ground and ground and old in (1 m., tam
10.				
11.			,	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.				of size, and woody plants less than 3.20 it tall.
	19 :	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 10		of total cover:	4	height.
Woody Vine Stratum (Plot size: 10m x 10m)		or total cover.		
Vitis rotundifolia	10	Yes	FAC	
2. Smilax bona-nox	2	No	FAC	
		UVI	FAC	
3.				
4				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover: 6	20%	of total cover:	3	Present?
Remarks: (If observed, list morphological adaptation	s below.)			•
Planted Pinus elliottii makes up the canopy with 80%	,	included in cal	culations be	cause it was planted,

SOIL Sampling Point: W8-UD15

Profile Desc	ription: (Describe to Matrix	o the dep		iment tl k Featur		ator or co	onfirm the absence	of indicate	ors.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	narks	
0-2	10YR 2/1	40	, , ,		<u> </u>		Sandy	Remaini	ng 60% ur	nmasked 10Y	/R 6/1
2-6	10YR 3/1	30					Sandy	Remaini	ng 70% ur	nmasked 10Y	/R 6/1
6-11	10YR 3/1	30	10YR 6/2	5		M	Sandy		_	nmasked 10Y	
11-22	10YR 3/1	30	10YR 6/2	10	D	М	Sandy			nmasked 10Y	
											-
¹ Type: C=Co	ncentration, D=Deple	etion RM=	Reduced Matrix M	IS=Mas	ked San	d Grains	² Location:	PI =Pore I	ining M=	——————————————————————————————————————	
	ndicators: (Applicat					a Graino.				dric Soils ³ :	
Histosol (Thin Dark Su			S, T, U)	1 cm N	/luck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	/luck (A10)	(LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Red	lox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	.RR O)	(outs	side MLRA	(150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	k (F2)		Reduc	ed Vertic (F	- 18)		
Organic I	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(out	side MLRA	150A, 15،	0B)	
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodpl	ain Soils ((F19) (LRR P	P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Dai	rk Surfa	ce (F7)		Anoma	alous Brigh	t Floodpla	in Soils (F20))
	ck (A9) (LRR P, T)		Redox Depre		(F8)		(MLRA 153B)				
	Below Dark Surface	(A11)	Marl (F10) (L				Red Parent Material (F21)				
	rk Surface (A12)		Depleted Ocl	-			Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154)				
	airie Redox (A16) (M										
	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
	eyed Matrix (S4)		Delta Ochric				(MLRA 153B, 153D) 50B) Other (Explain in Remarks)				
	edox (S5)		Reduced Ver	•	, ,			Explain in	Remarks)		
	Matrix (S6)	T 11\	Piedmont Flo	•	`	, .	•				
	face (S7) (LRR P, S,		Anomalous E	-				tors of hyd	rophytic v	ogotation and	,
LRR S	e Below Surface (S8)		(MLRA 149 Very Shallow				³ Indicators of hydrophytic vegetation and wetland hydrology must be present,				
(LIXIX C	, , , 0)		(MLRA 13		`	,	unless disturbed or problematic.				
Restrictive L	ayer (if observed):		(-,		,					
Type: 1	None										
Depth (in	ches):						Hydric Soil Pres	ent?	Yes	No X	_
Remarks:											
Area within th	e plot is bedded and	furrowed.	No evidene of rec	ent soil	alteratio	n.					



W8_UD15



Project/Site: Trail Ridge South	City/County: E	Bradford Sampling Date: 12/5/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W8-WD16
Investigator(s): D.Sank, D.LeJeune	Section, Township	, Range: 13, -7, 22
Landform (hillside, terrace, etc.): depression	n Local relief (concave,	convex, none): concave Slope (%): 1
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 02' 55.75"W Datum: WGS 84
Soil Map Unit Name: Leon sand, 0 to 2 perce		NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year?	s X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "	Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrold		eded, explain any answers in Remarks.)
		t locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes X No Is the Sample	ed Area
1	Yes X No within a Wetla	
I	Yes X No	
Remarks:		
inches of rainfall was recorded at the site dur some areas the furrows may intercept the sea	ring the prior week. The site has been histori easonal high water table resulting in wetland ntly been constructed perpendicular to the sk	hes above average for the prior 12 months. An average 1.54 ically converted to pine plantation and has beds/furrows. In vegetation within the furrow, however upland plants remain ope per silviculture BMPs. Since furrows are constructed periods.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; che <u>ck all that apply)</u>	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots	S (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C	C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Position (D2)
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	.)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No X Depth (inches):	
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspecti	ons), if available:
Remarks: The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected that du	ring the wet season the water table is present with in the top

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3 4				Total Number of Dominant Species Across All Strata:3(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 45 x 1 = 45
50% of total cover:	20%	of total cover:		FACW species 19 x 2 = 38
Sapling/Shrub Stratum (Plot size: 10m x 10m)		,		FAC species 10 x 3 = 30
1. Magnolia virginiana	3	No	FACW	FACU species 4 x 4 = 16
2. Ilex coriacea	1	No	FACW	UPL species 0 x 5 = 0
3.				Column Totals: 78 (A) 129 (B)
4.				Prevalence Index = B/A = 1.65
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
	4	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2	20%	of total cover:	1	
Herb Stratum (Plot size: 10m x 10m)				
1. Woodwardia virginica	30	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Andropogon glomeratus	8	No	FACW	present, unless disturbed or problematic.
3. Osmundastrum cinnamomeum	5	No	FACW	Definitions of Four Vegetation Strata:
4. Lachnanthes caroliniana	2	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Dichanthelium dichotomum	10	Yes	FAC	more in diameter at breast height (DBH), regardless of
6. Eleocharis baldwinii	10	Yes	OBL	height.
7. Xyris elliottii	3	No	OBL	
8. Pteridium aquilinum	4	No	FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9. Rhexia mariana	2	No	FACW	than 5 m. BBH and greater than 5.20 ft (1 m) tail.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.				5. 5.25, a.i.a. 10553, pianto 1055 anan 6.25 ii tami
	74	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 37	7 20%	of total cover:	15	height.
Woody Vine Stratum (Plot size: 10m x 10m)		,		
1.				
2.				
3.				
4.				
5.				Harton about
		=Total Cover		Hydrophytic Vegetation
50% of total cover:		of total cover:		Present? Yes X No
Remarks: (If observed, list morphological adaptation				

Planted Pinus elliottii makes up the canopy with 60% cover. Not included in calculations because it was planted. No woody vines observed in plot

Sampling Point: W8-WD16

SOIL Sampling Point: W8-WD16

	ription: (Describe to	o the dep				ator or co	onfirm the absence	of indicators.)		
Depth	Matrix			Feature		1 2	Taratrona	Demonto		
(inches) 0-2	Color (moist) 10YR 4/1	<u>%</u> _	Color (moist)		Type ¹	Loc ²	Texture	Remarks Pomaining 50% 10VP 6/1 upmasked		
2-4	10YR 2/1	<u>50</u> _					Sandy Mucky Sand	Remaining 50% 10YR 6/1 unmasked Remaining 20% 10YR 6/1 unmasked		
	10111 2/1						Widcky Salid	Remaining 20 % 1011X 6/1 unmasked		
4-20	10YR 3/1	<u>70</u> _	10YR 5/1			<u>M</u>	Sandy Remaining 20% 10YR 6/1 unmask			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ced Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil In	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol ((A1)		X Thin Dark Su	rface (S	9) (LRR	S, T, U)	1 cm N	Muck (A9) (LRR O)		
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)		
Black His	tic (A3)		(MLRA 15	3B, 153I	D)		Coast	Prairie Redox (A16)		
Hydrogen	Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	.RR O)	(out	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduc	ed Vertic (F18)		
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(out	side MLRA 150A, 150B)		
X 5 cm Muc	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark S	Surface	(F6)		Piedm	ont Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfac	ce (F7)		Anoma	alous Bright Floodplain Soils (F20)		
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLRA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Parent Material (F21)			
Thick Dar	rk Surface (A12)		Depleted Och	nric (F11	1) (MLR /	A 151)	Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A) Iron-Mangan	ese Mas	ses (F1	2) (LRR C				
Sandy Mu	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)			
Sandy GI	eyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	1)	(MLRA 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 15	50B) Other	(Explain in Remarks)		
X Stripped	` ,		Piedmont Flo							
	face (S7) (LRR P, S,		Anomalous E	-			•			
	e Below Surface (S8)		(MLRA 149				³ Indicators of hydrophytic vegetation and			
(LRR S	s, T, U)		Very Shallow		,	,		and hydrology must be present,		
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.			
	ayer (if observed): None									
Depth (in							Hydric Soil Pres	ent? Yes X No		
Remarks:							,			
	e plot is bedded and	furrowed.	No evidence of re	cent soi	l alteration	on.				



W8_WD16



Project/Site: Trail Ridge South	City/County:	Bradford Sampling Date: 12/5/1	8
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W8-U	D16
Investigator(s): D.Sank, D.LeJeune	Section, Township	p, Range: 13, -7, 22	
Landform (hillside, terrace, etc.): terrace		e, convex, none): none Slope (%): 1	
Subregion (LRR or MLRA): LRR T, MLRA 15	<u> </u>	Long: -82° 02' 56.91" Datum: WGS	
) 4
Soil Map Unit Name: Leon Sand, 0 to 2 perce		NWI classification: Upland	
Are climatic / hydrologic conditions on the site		es X No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrol	ogysignificantly disturbed? Are	"Normal Circumstances" present? Yes X No	
Are Vegetation, Soil, or Hydrol	ogynaturally problematic? (If n	needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach	site map showing sampling poir	nt locations, transects, important features, e	tc.
Livelne plantic Venetation Dura anto	Vac V Na la the Comm	lad Avea	
, , , ,	Yes X No Is the Sample Yes No X within a Wet		
	Yes No X	165 NO X	
Remarks:	100		
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se	ing the prior week. The site has been histo asonal high water table resulting in wetland tly been constructed perpendicular to the s	ches above average for the prior 12 months. An average 1 prically converted to pine plantation and has beds/furrows. It is described by the description within the furrow, however upland plants remain slope per silviculture BMPs. Since furrows are constructed to periods.	In iin
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mon Not available	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Thin Muck Surface (C7) Other (Explain in Remarks)) No X Depth (inches): No X Depth (inches):	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) X Sphagnum Moss (D8) (LRR T,U) Wetland Hydrology Present? Yes No	
Remarks: The natural landform has been converted for	silviculture practices. Sparse sphagnum	moss observed in the bottom of the furrows.	

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 3 (A)
				```
				Total Number of Dominant
				Species Across All Strata: 5 (B)
· <u></u>				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 60.0% (A/B
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	:	=Total Cover		OBL species 11 x 1 = 11
50% of total cover:	20%	of total cover:		FACW species 7 x 2 = 14
apling/Shrub Stratum (Plot size: 10m x 10m				FAC species 13 x 3 = 39
Persea palustris	1	No	FACW	FACU species 15 x 4 = 60
Gordonia lasianthus	1	No	FACW	
				<u> </u>
Serenoa repens Vaccinium corymbosum	15	Yes	FACU	Column Totals: 51 (A) 149 (B
Vaccinium corymbosum	1	No	FACW	Prevalence Index = B/A = 2.92
llex glabra	2	No	FACW	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
·				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
	20	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	0 20%	of total cover:	4	<u> </u>
erb Stratum (Plot size: 10m x 10m )		or total cover.	<del></del>	
	0	NI-	ODI	
Woodwardia virginica		No	OBL	¹ Indicators of hydric soil and wetland hydrology must b
Lachnanthes caroliniana	5	Yes	OBL	present, unless disturbed or problematic.
Dichanthelium dichotomum	8	Yes	FAC	Definitions of Four Vegetation Strata:
Lachnocaulon minus	3	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
Osmundastrum cinnamomeum	1	No	FACW	more in diameter at breast height (DBH), regardless of
Rhynchospora nitens	1	No	OBL	height.
Andropogon glomeratus	1	No	FACW	
Cladonia sp.	5	Yes	UPL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
·				than 3 m. DBH and greater than 3.26 ft (1 m) tail.
1.				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
2				l
	$\overline{}$	=Total Cover		<b>Woody Vine</b> – All woody vines greater than 3.28 ft in
50% of total cover:1	3 20%	of total cover:	6	height.
/oody Vine Stratum (Plot size: 10m x 10m )				
Vitis rotundifolia	5	Yes	FAC	
_				
				Hydrophytic
		-Total Cover		
50% of total cover:		=Total Cover of total cover:	1	Vegetation Present? Yes X No

SOIL Sampling Point: W8-UD16

		o the dept				tor or co	onfirm the absence	of indicators.)			
Depth (in aboa)	Matrix	0/		x Featur		1 2	Tarabrasa	Dan	w/s		
(inches)	Color (moist)	<u>%</u> _	Color (moist)		Type ¹	Loc ²	Texture		marks		
0-6	10YR 3/1						Sandy	Remaining soil u	nmasked 10YR 6/1		
6-9	10YR 2/1	75					Sandy	Remaining soil u	nmasked 10YR 6/1		
9-22	10YR 5/1	100					Sandy				
			_								
1 _{T. max} C=Ca			Dadwaad Matrix A				21 4:	DI - Dana Linina M-	-NA admire		
	ncentration, D=Deple ndicators: (Applicat					Grains.		PL=Pore Lining, M= for Problematic Hy			
Histosol (		DIE IO AII L	Thin Dark Su			S T II)		luck (A9) (LRR O)	Julic Solls .		
	ipedon (A2)		Barrier Island					luck (A9) (LRR S)			
Black His			(MLRA 15			12)		Prairie Redox (A16)			
	` '		Loamy Muck			BB (A)		ide MLRA 150A)			
	Sulfide (A4)			•	` ' '	KK U)	•	•			
	Layers (A5)	T 11\	Loamy Gleye					ed Vertic (F18)	EOD)		
	Bodies (A6) (LRR, P,		Depleted Ma				•	side MLRA 150A, 150B)			
	cky Mineral (A7) <b>(LRI</b> esence (A8) <b>(LRR U)</b>	K P, 1, U)	Redox Dark					ont Floodplain Soils (F19) <b>(LRR P, T)</b> alous Bright Floodplain Soils (F20)			
			Depleted Da					-	iii Solis (F20)		
	ck (A9) <b>(LRR P, T)</b> Below Dark Surface	(Λ11)	Redox Depre		(10)		(MLRA 153B) Red Parent Material (F21)				
	rk Surface (A12)	(A11)	Depleted Oc		1) /MI D/	\ 151\	Very Shallow Dark Surface (F22)				
	airie Redox (A16) ( <b>M</b>	I DA 150A									
	ucky Mineral (S1) <b>(LF</b>		Umbric Surfa		•		Barrier Islands Low Chroma Matrix (TS7)				
	eyed Matrix (S4)	XIX O, 3)	Delta Ochric				(MLRA 153B, 153D)				
	edox (S5)			. , .		•					
	Matrix (S6)			educed Vertic (F18) <b>(MLRA 150A, 150B)</b> ——Other (Explain in Remarks) edmont Floodplain Soils (F19) <b>(MLRA 149A)</b>							
	face (S7) <b>(LRR P, S,</b>	T 11)	Anomalous E								
	e Below Surface (S8)		(MLRA 14	-			³ Indicators of hydrophytic vegetation and				
(LRR S			Very Shallow				wetland hydrology must be present,				
(LIXIX C	,, 1, 0)		(MLRA 13				unless disturbed or problematic.				
Restrictive L	ayer (if observed):		· · · · · · · · · · · · · · · · · · ·	•	· ·	<u>,                                      </u>		•			
Type: N	None										
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No <u>X</u>		
Remarks:											
Area within th	e plot is bedded and	furrowed.	No evidence of re	cent soi	il alteratio	n.					



W8_UD16



Project/Site: Trail Ridge South		City/County: Clay		Sampling Date: <u>02/01/19</u>			
Applicant/Owner: The Chemours Compar			State: FL	Sampling Point: W8_WD17			
Investigator(s): N. Adams, D. Sank	Sec	tion, Township, Range:	19, -7, 23				
Landform (hillside, terrace, etc.): depression		relief (concave, convex, r		Slope (%): 0			
Subregion (LRR or MLRA): LRR T, MLRA 15		•	32° 2' 43.73"W	Datum: WGS 84			
		Long. <u>-c</u>		<del></del>			
Soil Map Unit Name: Leon fine sand, 0-2 per	·		NWI classificat				
Are climatic / hydrologic conditions on the site		Yes <u>X</u>		explain in Remarks.)			
Are Vegetation, Soil, or Hydrol	<del></del>		ircumstances" present?	? Yes X No			
Are Vegetation, Soil, or Hydrole	ogynaturally problema	itic? (If needed, exp	olain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	site map showing sam	npling point location	ons, transects, im	portant features, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
1		within a Wetland?	Yes X	No			
l ,	Yes X No		<u></u>				
Remarks:							
Rainfall conditions for Clay County were high		nd are 5.94 inches above	average for the prior	12 months. An average 1.86			
inches of rainfall was recorded at the site dur	ing the prior week.						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is requir			Surface Soil Cracl	, ,			
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)				
X High Water Table (A2)	Marl Deposits (B15) (LR		Drainage Patterns (B10)				
X Saturation (A3)	Hydrogen Sulfide Odor (		Moss Trim Lines (B16)				
—— Water Marks (B1)	Oxidized Rhizospheres of		) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iro		· · · · · · · · · · · · · · · · · · ·				
—— Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		on Aerial Imagery (C9)			
—— Algal Mat or Crust (B4)	Thin Muck Surface (C7)		X Geomorphic Posit				
Iron Deposits (B5)	Other (Explain in Remark	ks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7	)		X FAC-Neutral Test	, ,			
Water-Stained Leaves (B9)			X Sphagnum Moss (	(D8) <b>(LRR T,U)</b>			
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches):						
Saturation Present? Yes X	No Depth (inches):	0 Wetland I	Hydrology Present?	YesX No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pr	evious inspections), if av	/allable:				
Remarks:							
Sphagnum moss very sparse, located within	less than 1% of the plot.						
	•						

Torre Otreture (Districts 40 and 40 and	Absolute	Dominant	Indicator	D
Tree Stratum (Plot size: 10m x 10m )	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus elliottii	1	No	FACW	Number of Dominant Species
2				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	1 :	=Total Cover		OBL species 25 x 1 = 25
50% of total cover:1	20%	of total cover:	1	FACW species 24 x 2 = 48
Sapling/Shrub Stratum (Plot size:10m x 10m)				FAC species 55 x 3 = 165
1. Persea palustris	15	Yes	FACW	FACU species 9 x 4 = 36
2. Ilex glabra	3	No	FACW	UPL species 0 x 5 = 0
3. Pinus palustris	1	No	FACU	Column Totals: 113 (A) 274 (B)
4. Vaccinium corymbosum	3	No	FACW	Prevalence Index = B/A = 2.42
5. Serenoa repens	5	No	FACU	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				$\frac{\times}{X}$ 3 - Prevalence Index is $\leq 3.0^{1}$
·	27 :	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 14		of total cover:	6	1 Toblematic Trydrophytic Vegetation (Explain)
	20%	or total cover.		
Herb Stratum (Plot size: 10m x 10m )			= 4 0 1 1	
1. Vaccinium myrsinites	3	<u>No</u>	FACU	¹ Indicators of hydric soil and wetland hydrology must be
2. Andropogon virginicus	55	Yes	<u>FAC</u>	present, unless disturbed or problematic.
3. Vaccinium corymbosum	2	<u>No</u>	FACW	Definitions of Four Vegetation Strata:
4. Xyris elliottii	10	No	OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Woodwardia virginica	15	No	OBL	more in diameter at breast height (DBH), regardless of
6				height.
7				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				ground than one ground ground than one in (1 m) take
10.				
11.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.				of size, and woody plants less than 3.20 it tall.
	85 :	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 43		of total cover:	17	height.
Woody Vine Stratum (Plot size: 10m x 10m )		or total cover.		
1 2.				
3				
4				
5				Hydrophytic
	:	=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present?
Remarks: (If observed, list morphological adaptations	s below.)			•
No woody vine stratum observed within plot.	,			
•				

Sampling Point:

W8_WD17

SOIL Sampling Point: W8_WD17

	ription: (Describe t	o the dept				tor or co	onfirm the absence	of indicators.)		
Depth (inches)	Color (moist)	<del></del> _	Color (moist)	x Featur %	res Type ¹	Loc ²	Toyturo	Remarks		
(inches)	Color (moist)	70	Color (moist)		Type	LOC	Texture	Remarks		
0-12	10YR 2/1	80						Remaining soil unmasked 10YR 6/1		
¹ Type: C=Co	ncentration, D=Deple	======================================	Reduced Matrix, M	 1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.		
	ndicators: (Applicat							for Problematic Hydric Soils ³ :		
Histosol (	(A1)		X Thin Dark Su	urface (S	89) <b>(LRR</b>	S, T, U)	1 cm N	Muck (A9) <b>(LRR O)</b>		
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	fluck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) <b>(L</b>	RR O)	— (outs	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)		
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)	)		(outs	side MLRA 150A, 150B)		
	cky Mineral (A7) <b>(LR</b> I	R P, T, U)	Redox Dark	Surface	(F6)		Piedme	ont Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)			
	ck (A9) <b>(LRR P, T)</b>		Redox Depre		(F8)		(MLRA 153B)			
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>				Red Parent Material (F21)			
	rk Surface (A12)		Depleted Oc	-			Very Shallow Dark Surface (F22)			
	airie Redox (A16) (M				•					
	ucky Mineral (S1) <b>(LI</b>	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)		Delta Ochric	. , .		•	(MLRA 153B, 153D)			
	edox (S5)		Reduced Ve	•	, ,					
	Matrix (S6)	T 11\	Piedmont Flo							
	face (S7) <b>(LRR P, S,</b>		Anomalous E	-			•	tors of hydrophytic vogetation and		
(LRR S	e Below Surface (S8)		(MLRA 14 Very Shallow				³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
(LKK S	5, 1, 0)		(MLRA 13		`	,		ss disturbed or problematic.		
Postrictivo I	aver (if observed):		(IIIZIOA 10	o, 102A		<del>,</del>	dille	oo distance of problematic.		
	None									
Depth (in							Hydric Soil Prese	ent? Yes X No		
Remarks:							Tiyano Con i ico			
	terminated at 12 incl	nes due to	high water table N	No evide	ence of re	cent soil	alteration			
2020g .0							S.1.5. G.1.5. II			



W8-WD17



Project/Site: Trail Ridge South		City/County: Clay		Sampling Date: 02/01/19			
Applicant/Owner: The Chemours Compar	ny FC, LLC		State: FL	Sampling Point: W8_UD17			
Investigator(s): N. Adams, D. Sank  Section, Township, Range: 19, -7, 23							
Landform (hillside, terrace, etc.): terrace		elief (concave, convex, r		Slope (%): 0			
Subregion (LRR or MLRA): LRR T, MLRA 15		•	2° 2' 43.37"W	Datum: WGS 84			
Soil Map Unit Name: Leon fine sand, 0-2 per		Eong	NWI classificat				
Are climatic / hydrologic conditions on the site	·	Yes X		•			
• •	•			explain in Remarks.)			
Are Vegetation, Soil, or Hydrold	<del></del>		rcumstances" present?				
Are Vegetation, Soil, or Hydrold	<del></del>		lain any answers in Re				
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ons, transects, im	portant features, etc.			
Hydrophytic Vegetation Present?	Yes No X I	ls the Sampled Area					
_ , , , , ,		within a Wetland?	Yes	No X			
I	Yes X No						
Remarks:							
Rainfall conditions for Clay County were high	•		•	· ·			
inches of rainfall was recorded at the site dur some areas the furrows may intercept the sea	•	-					
on the bed. Beds and furrows in some areas	•	•	·	·			
cross slope, this can result in ponding of water	er within the furrows during ab	normally wet periods.					
HYDROLOGY							
			Casandan Indicators	(minimum of two required)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is require	ed: check all that annly)		•	(minimum of two required)			
Surface Water (A1)	Aquatic Fauna (B13)		Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)				
X High Water Table (A2)	Marl Deposits (B15) (LRF	S 11)	Drainage Patterns	· ·			
X Saturation (A3)	Hydrogen Sulfide Odor (C	•	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres or	•	Dry-Season Wate	·			
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burrows	· ·			
Drift Deposits (B3)	Recent Iron Reduction in			on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	(100	Geomorphic Posit				
Iron Deposits (B5)	Other (Explain in Remark	rs)	Shallow Aquitard (				
Inundation Visible on Aerial Imagery (B7)	<del></del>	X FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)	'		X Sphagnum Moss (	` '			
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches):	7					
Saturation Present? Yes X	No Depth (inches):	6 Wetland H	lydrology Present?	Yes X No			
(includes capillary fringe)			, 0,				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	evious inspections), if av	ailable:				
Remarks:	" . "						
The natural landform has been converted for	silviculture practices. Sphagn	um moss located at the	bottom of the furrows.				

Tree Stratum (Plot size: 10m x 10m )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. I.				Total Number of Dominant Species Across All Strata: 4 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 2 x 1 = 2
50% of total cover:	20%	of total cover:		FACW species 78 x 2 = 156
Sapling/Shrub Stratum (Plot size: 10m x 10m	)			FAC species 14 x 3 = 42
Serenoa repens	20	Yes	FACU	FACU species 39 x 4 = 156
2. Ilex glabra	50	Yes	FACW	UPL species 0 x 5 = 0
3. Lyonia ferruginea	5	No	FACU	Column Totals: 133 (A) 356 (B
F. Gordonia lasianthus	3	No	FACW	Prevalence Index = B/A = 2.68
5. Pinus palustris	2	No	FACU	Hydrophytic Vegetation Indicators:
S. Ilex coriacea	3	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
3.				3 - Prevalence Index is ≤3.0 ¹
	83 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:		of total cover:	17	
Herb Stratum (Plot size: 10m x 10m )		or total cover.		
. Pinus palustris	1	No	FACU	4
	8	No	FACU FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Andropogon virginicus 3. Vaccinium myrsinites	10	Yes	FACU	Definitions of Four Vegetation Strata:
Eriocaulon compressum	2	No	OBL	
5. Dichanthelium dichotomum	2	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
				height.
S. Ilex glabra		Yes	FACW	
Z. Scleria baldwinii	1	No No	FACW	Sapling/Shrub – Woody plants, excluding vines, less
3. Serenoa repens	1	No No	FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
6. Gordonia lasianthus	1	No No	FACW	
Aristida spiciformis  1.	1	No No	FAC	<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
		=Total Cover		<b>Woody Vine</b> – All woody vines greater than 3.28 ft in
	24 20%	of total cover:	10	height.
<u>Voody Vine Stratum</u> (Plot size: <u>10m x 10m</u> )				
Smilax bona-nox	2	No	FAC	
2. Vitis rotundifolia	1	No	FAC	
3.				
l				
5.				the other plants
	3 =	Total Cover		Hydrophytic Vegetation
				Vegetation
50% of total cover:		of total cover:	1	Present? Yes No X

Sampling Point:

W8_UD17

SOIL Sampling Point: W8_UD17

	ription: (Describe t	o the dept				tor or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	<del></del> _		x Featur		Loc ²	Toyturo	Pon	aarka		
(inches) 0-8	Color (moist) 10YR 2/1	60	Color (moist)		Type ¹	Loc	Texture Sandy		narks nmasked 10YR 6/1		
	1011\\ 2/1						Sality	Remaining soil ui	illiaskeu 1011 0/1		
<u>8-15</u>	10YR 5/1	80			<u></u>		Sandy	Remaining soil ur	nmasked 10YR 6/1		
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=	Matrix.		
Hydric Soil II	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise r	oted.)		Indicators	for Problematic Hy	dric Soils ³ :		
Histosol (	(A1)		Thin Dark Su	urface (S	59) <b>(LRR</b>	S, T, U)	1 cm M	luck (A9) (LRR O)			
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie Redox (A16)			
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) <b>(L</b>	RR O)	— (outs	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)	)		— (outs	side MLRA 150A, 1	50B)		
5 cm Mud	cky Mineral (A7) <b>(LR</b> I	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils	(F19) <b>(LRR P, T)</b>		
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)				
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	.RR U)			Red Parent Material (F21)				
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) <b>(MLR</b> A	151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) ( <b>M</b>	LRA 150A)	Iron-Mangan	ese Ma	sses (F12	2) (LRR C	O, P, T) (outside MLRA 138, 152A in FL, 154)				
Sandy Mı	ucky Mineral (S1) <b>(Li</b>	RR O, S)	Umbric Surfa	ace (F13	B) (LRR P	, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) <b>(</b> I	MLRA 15	1)	(MLRA 153B, 153D)				
Sandy Re	edox (S5)		Reduced Ve	rtic (F18	3) (MLRA	150A, 15	50B) Other (Explain in Remarks)				
Stripped	Matrix (S6)		Piedmont Flo	oodplair	Soils (F	19) <b>(MLR</b>	A 149A)				
Dark Surf	face (S7) <b>(LRR P, S</b> ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	0)				
Polyvalue	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: <u>N</u>	None										
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No <u>X</u> _		
Remarks: Soil boring is	terminated at 15 incl	nes due to	high water table. <i>I</i>	Area wit	hin the plo	ot is bedo	led and furrowed. No	evidence of recent	soil alteration.		



W8-UD17



Project/Site: Trail Ridge South	City/County: Clay		Sampling Date: <u>01/31/19</u>	
Applicant/Owner: The Chemours Compan	y FC, LLC	State: FL	Sampling Point: W8_WD18	
Investigator(s): N. Adams, B. McGee	Section, Township, Range:	19, -7, 23		
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex,	none): concave	Slope (%): 0-2	
Subregion (LRR or MLRA): LRR T, MLRA 15	 3A Lat: 29°52'35.6"N Long: -	82°02'37.7"W	Datum: WGS 84	
Soil Map Unit Name: Leon fine sand, 0 to 2 p		NWI classifica		
Are climatic / hydrologic conditions on the site	·		explain in Remarks.)	
Are Vegetation, Soil, or Hydrold	· —	Circumstances" present		
Are Vegetation , Soil , or Hydrold		plain any answers in Re	emarks.)	
<del></del>	site map showing sampling point locati	ions, transects, im	portant features, etc.	
Hydrophytic Vegetation Present?	Yes X No Is the Sampled Area			
	/es X No within a Wetland?	Yes X	No	
	/es X No			
Remarks: Rainfall conditions for Clay County were high inches of rainfall was recorded at the site duri	er than normal for January and are 5.94 inches aboung the prior week.	ve average for the prior	12 months. An average 1.86	
HYDROLOGY			_	
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)	
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	ks (B6)	
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)		
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	s (B10)	
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (	•	
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Wate	· ·	
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows		
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Posit		
X Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard		
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test		
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) <b>(LRR T,U)</b>	
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes X	No Depth (inches): 8			
	No Depth (inches): 0	Hydrology Present?	Yes _ X _ No	
(includes capillary fringe)		9. 1.1		
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous inspections), if a	available:		
Remarks:				
Remarks.				

VEGETATION (Four Strata) - Use scient	ific names	of plants.		Sampling Point:W8_WD18
	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>10m x 10m</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus elliottii	1	No	FACW	Number of Dominant Species
2				That Are OBL, FACW, or FAC:3 (A)
3				Total Number of Dominant
4				Species Across All Strata: 3 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	1	=Total Cover		OBL species 5 x 1 = 5
50% of total cover:	1 20%	of total cover:	1	FACW species 81 x 2 = 162
Sapling/Shrub Stratum (Plot size: 10m x 10m	)			FAC species 2 x 3 = 6
1. Persea palustris	5	Yes	FACW	FACU species 1 x 4 = 4
2. Pinus elliottii	3	Yes	FACW	UPL species 0 x 5 = 0
3. Morella cerifera	1	No	FAC	Column Totals: 89 (A) 177 (B)
4.				Prevalence Index = B/A = 1.99
5.				Hydrophytic Vegetation Indicators:
6.				X 1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
7. 8.				$\overline{X}$ 2 Bernmande Feet is $\frac{1}{2}$ 60% $\overline{X}$ 3 - Prevalence Index is $\leq 3.0^{1}$
·	9	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:		of total cover:	2	Troblematic riyuropriyite vegetation (Explain)
	2070	or total cover.		
Herb Stratum (Plot size: 10m x 10m )	15	No	EA C\\\	
1. Persea palustris	15	No No	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2. Lyonia lucida	45	Yes	FACW	present, unless disturbed or problematic.
3. Ilex glabra	10	No No	FACW	Definitions of Four Vegetation Strata:
4. Eleocharis baldwinii	3	No No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Pinus palustris	1	No No	FACU	more in diameter at breast height (DBH), regardless of height.
6. Vaccinium corymbosum	1	No	FACW	1.5.g.m
7. Rhynchospora tracyi	2	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less
8. Aristida spiciformis	1	No	<u>FAC</u>	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	78	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	39 20%	of total cover:	16	height.
Woody Vine Stratum (Plot size:10m x 10m _ )				
1. Smilax laurifolia	1	No	FACW	
2.				
3.				
4.				
5.				
·	1	=Total Cover		Hydrophytic
50% of total cover:		of total cover:	1	Vegetation Present? Yes X No
		or total cover.		11636HC: 163_X
Remarks: (If observed, list morphological adaptation	ons below.)			

SOIL Sampling Point: W8_WD18

	ription: (Describe to	o the depti				itor or co	nfirm the absence	of indicators.)			
Depth	Matrix			x Featur		. 2	<b>-</b> .	<b>5</b>			
(inches)	Color (moist)	<u>%</u> _	Color (moist)		Type ¹	Loc ²	Texture	Remarks			
0-6.5	10YR 2/1	80 _				—	Sandy	Remaining soil unmasked 10YR 6/1			
6.5-7.5	10YR 3/1	60					Sandy	Remaining soil unmasked 10YR 6/1			
7.5-12	10YR 5/1						Sandy	Remaining soil unmasked 10YR 6/1			
¹Type: C=Co	oncentration, D=Deple	etion, RM=F	Reduced Matrix, M	 IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil I	ndicators: (Applicat	ole to all Li	RRs, unless othe	rwise n	oted.)			for Problematic Hydric Soils ³ :			
Histosol	(A1)		X Thin Dark Su	ırface (S	9) <b>(LRR</b>	S, T, U)	1 cm M	Muck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	Muck (A10) <b>(LRR S)</b>			
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)			
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) <b>(L</b>	RR O)	(outs	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)			
Organic I	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)	)		(outs	side MLRA 150A, 150B)			
5 cm Mu	cky Mineral (A7) <b>(LRI</b>	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)				
1 cm Mu	ck (A9) <b>(LRR P, T)</b>		Redox Depre	essions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	arent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) <b>(MLR</b> A	A 151)	Very S	hallow Dark Surface (F22)			
Coast Pr	airie Redox (A16) ( <b>M</b>	LRA 150A)					), P, T) (outs	side MLRA 138, 152A in FL, 154)			
Sandy M	ucky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surface (F13) (LRR P, T, U)				Barrier Islands Low Chroma Matrix (TS7)				
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) <b>(I</b>	MLRA 15	1)	(MLRA 153B, 153D)				
	edox (S5)		Reduced Ver	•	, ,		· · · · · · · · · · · · · · · · · · ·				
	Matrix (S6)		Piedmont Flo								
	face (S7) <b>(LRR P, S,</b>		Anomalous E	-							
	e Below Surface (S8)		(MLRA 14				³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow		`	,	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	.ayer (if observed): None										
Depth (in							Hydric Soil Prese	ent? Yes X No			
Remarks:	-										
	terminated at 12 inch	nes due to l	high water table. N	lo evide	ence of re	cent soil	alteration.				



W8_WD18



Project/Site: Trail Ridge South	City/Coun	ity: Clay	Sampling Date: 01/31/19		
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_UD18		
Investigator(s): N. Adams, B. McGee	Section, Town	ship, Range: 19, -7, 23			
Landform (hillside, terrace, etc.): terrace		ave, convex, none): none	Slope (%): 0		
Subregion (LRR or MLRA): LRR T, MLRA 15	<u> </u>	Long: -82°02'38.6"W	Datum: WGS 84		
Soil Map Unit Name: Leon fine sand, 0 - 2 pe	•		ation: Upland		
Are climatic / hydrologic conditions on the site			explain in Remarks.)		
Are Vegetation, Soil, or Hydrolo		Are "Normal Circumstances" presen			
Are Vegetation, Soil, or Hydrolo	ogynaturally problematic? (	If needed, explain any answers in R	lemarks.)		
SUMMARY OF FINDINGS – Attach	site map showing sampling p	oint locations, transects, ir	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes No X Is the Sar	mpled Area			
, , , ,	Yes No X within a V		No X		
	Yes X No				
Remarks:					
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ring the prior week. The site has been h asonal high water table resulting in wetle s have been constructed perpendicular to	nistorically converted to pine plantati and vegetation within the furrow, ho o the slope per silviculture BMPs. S	ion and has beds/furrows. In owever upland plants remain		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac			
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)		
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern			
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)		
Water Marks (B1)	Oxidized Rhizospheres on Living R	Roots (C3) Dry-Season Wate	er Table (C2)		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	; (C8)		
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soil		e on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos			
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard			
Inundation Visible on Aerial Imagery (B7	)	FAC-Neutral Tes			
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) <b>(LRR T,U)</b>		
	No X Depth (inches):  No Depth (inches): 8.5  No Depth (inches): 4	Wetland Hydrology Present?	Yes <u>X</u> No		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous insp	pections), if available:			
Remarks:					
The natural landform has been converted for	silviculture practices.				

=Total Cover of total cover:  No Yes Yes No No	FACW FACU FACU FACW	Dominance Test worksheet:           Number of Dominant Species           That Are OBL, FACW, or FAC:         2         (A)           Total Number of Dominant         4         (B)           Percent of Dominant Species         4         (B)           Prevalente Index worksheet:         50.0%         (A/B)           Prevalence Index worksheet:         Multiply by:           OBL species         0         x 1 =         0           FACW species         58         x 2 =         116           FAC species         44         x 3 =         132           FACU species         25         x 4 =         100           UPL species         0         x 5 =         0           Column Totals:         127         (A)         348         (B)
No Yes Yes No	FACU FACU	That Are OBL, FACW, or FAC:       2       (A)         Total Number of Dominant Species Across All Strata:       4       (B)         Percent of Dominant Species That Are OBL, FACW, or FAC:       50.0%       (A/B)         Prevalence Index worksheet:         Total % Cover of:       Multiply by:         OBL species       0       x 1 = 0         FACW species       58       x 2 = 116         FAC species       44       x 3 = 132         FACU species       25       x 4 = 100         UPL species       0       x 5 = 0
No Yes Yes No	FACU FACU	Species Across All Strata:         4         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         50.0%         (A/B)           Prevalence Index worksheet:
No Yes Yes No	FACU FACU	That Are OBL, FACW, or FAC:         50.0%         (A/B)           Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         0         x 1 = 0           FACW species         58         x 2 = 116           FAC species         44         x 3 = 132           FACU species         25         x 4 = 100           UPL species         0         x 5 = 0
No Yes Yes No	FACU FACU	Prevalence Index worksheet:           Total % Cover of:         Multiply by:           OBL species         0         x 1 = 0           FACW species         58         x 2 = 116           FAC species         44         x 3 = 132           FACU species         25         x 4 = 100           UPL species         0         x 5 = 0
No Yes Yes No	FACU FACU	Total % Cover of:         Multiply by:           OBL species         0         x 1 = 0           FACW species         58         x 2 = 116           FAC species         44         x 3 = 132           FACU species         25         x 4 = 100           UPL species         0         x 5 = 0
No Yes Yes No	FACU FACU	OBL species         0         x 1 =         0           FACW species         58         x 2 =         116           FAC species         44         x 3 =         132           FACU species         25         x 4 =         100           UPL species         0         x 5 =         0
No Yes Yes No	FACU FACU	FAC species       44       x 3 =       132         FACU species       25       x 4 =       100         UPL species       0       x 5 =       0
Yes Yes No	FACU FACU	FACU species 25 x 4 = 100  UPL species 0 x 5 = 0
Yes Yes No	FACU FACU	UPL species 0 x 5 = 0
Yes No	FACU	
No		Column Totals: 127 (A) 349 (D)
		Column Totals. 121 (A) 340 (D)
No		Prevalence Index = B/A = 2.74
	FACW	Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0 ¹
=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
of total cover:	7	resistance regulation (Explain)
or total cover.		
Yes	FACW	1
		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		Definitions of Four Vegetation Strata:
		<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
res	FAC	height.
		Sapling/Shrub – Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		Herb – All herbaceous (non-woody) plants, regardless
		of size, and woody plants less than 3.28 ft tall.
-Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
	20	height.
OI lotal cover.		
		Hydrophytic
		Vegetation
of total cover:		Present? Yes No _X
•	No No No Yes  =Total Cover of total cover: of total cover:	No FACU No FAC Yes FAC

Planted Pinus elliottii makes up the canopy with 10% cover. Not included in calculations because it was planted. No woody vine stratum present within the plot.

Sampling Point: W8_UD18

SOIL Sampling Point: W8_UD18

	ription: (Describe t	o the dept				itor or co	nfirm the absence	of indica	ators.)		
Depth	Matrix			Feature		. 2	<b>-</b> .		_		
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture			narks	
0-6	10YR 2/1	60				—	Sandy	Rema	ining soil un	masked 1	0YR 6/1
6-9	10YR 3/1						Sandy	Rema	ining soil un	masked 1	0YR 6/1
9-13	10YR 4/1	90	10YR 5/1	10	D	<u>M</u>	Sandy				
1							2				
	ncentration, D=Deple					Grains.			E Lining, M=		3
-	ndicators: (Applical	ole to all L				C T !!\			olematic Hy	aric Soils	;*:
— Histosol			Thin Dark Su  Barrier Island	-					) (LRR O)		
Black His	ipedon (A2)					12)			0) (LRR S)		
			(MLRA 153 Loamy Muck			BB (A)			edox (A16) RA 150A)		
	n Sulfide (A4) Layers (A5)		Loamy Gleye	•	` ' '	KK U)	•	ed Vertic	•		
	Bodies (A6) <b>(LRR, P,</b>	T 11\	Depleted Mat						, (г то <i>)</i> RA 150A, 15	ine)	
	cky Mineral (A7) <b>(LR</b>		Redox Dark S				•		dplain Soils (	,	RPT)
	esence (A8) (LRR U)	( , i, o)	Depleted Dar		` '						-
	ck (A9) (LRR P, T)		Redox Depre		, ,		Anomalous Bright Floodplain Soils (F20) (MLRA 153B)				
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>		. 0)		Red Parent Material (F21)				
	rk Surface (A12)	( )	Depleted Och		1) (MLR/	A 151)	Very Shallow Dark Surface (F22)				
	airie Redox (A16) ( <b>M</b>	LRA 150A)					<u> </u>		de MLRA 138, 152A in FL, 154)		54)
	ucky Mineral (S1) (LI	•	Umbric Surfa						Low Chroma	•	,
	leyed Matrix (S4)	. ,	Delta Ochric				(MLRA 153B, 153D)				
	edox (S5)		Reduced Ver	. , .		•	Other (	Explain i	in Remarks)		
	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>			•		
Dark Sur	face (S7) <b>(LRR P, S,</b>	T, U)	Anomalous B	right Flo	oodplain	Soils (F2	0)				
Polyvalue	e Below Surface (S8)		(MLRA 149	9A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,				
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.				
Restrictive L	ayer (if observed):										
	None										
Depth (in	iches):						Hydric Soil Prese	ent?	Yes	No_	<u>X</u>
Remarks:											
Soil boring is	terminated at 13 incl	nes due to	high water table. N	lo evide	nce of re	cent soil	alteration.				



W8_UD18



Project/Site: Trail Ridge South	City/County	/: Clay	_Sampling Date: <u>01/31/19</u>				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_WD19				
Investigator(s): N. Adams, B. McGee	Section, Townsl	nip, Range: 19, -7, 23					
Landform (hillside, terrace, etc.): hillside		ve, convex, none): none	Slope (%): 0-2				
Subregion (LRR or MLRA): LRR T, MLRA 15	<u> </u>	Long: -82°02'40.9"W	Datum: WGS 84				
Soil Map Unit Name: Leon fine sand, 0-2 per		NWI classifica					
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no, e	explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Ar	e "Normal Circumstances" present	? Yes X No				
Are Vegetation, Soil, or Hydrok		needed, explain any answers in Re					
SUMMARY OF FINDINGS – Attach	<del></del>	•					
Hydrophytic Vegetation Present?	Yes X No Is the Sam	pled Area					
	Yes X No within a W		No				
	Yes X No						
Remarks:							
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has been his asonal high water table resulting in wetland to be been constructed perpendicular to	storically converted to pine plantation of vegetation within the furrow, how the slope per silviculture BMPs. S	on and has beds/furrows. In wever upland plants remain				
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Crac					
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)				
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns					
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (					
Water Marks (B1)	Oxidized Rhizospheres on Living Ro						
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows					
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	<del></del>	on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	• • • •				
Iron Deposits (B5)	Other (Explain in Remarks)	<del></del>	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7	<del></del> )	X FAC-Neutral Test	(D5)				
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) <b>(LRR T,U)</b>				
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches): 4.5						
Saturation Present? Yes X	No Depth (inches):0	Wetland Hydrology Present?	Yes X No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ections), if available:					
Remarks:	eth discultives and all an						
The natural landform has been converted for	silviculture practices.						

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m )	% Cover	Species?	Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
3				Total Number of Dominant Species Across All Strata: 6 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		Total Cover		OBL species 7 x 1 = 7
50% of total cover:	20%	of total cover:		FACW species 11 x 2 = 22
Sapling/Shrub Stratum (Plot size: 10m x 10m	)			FAC species 30 x 3 = 90
1. Pinus elliottii	3	Yes	FACW	FACU species 11 x 4 = 44
2. Persea palustris	1	No	FACW	UPL species 0 x 5 = 0
3. Pinus palustris	3	Yes	FACU	Column Totals: 59 (A) 163 (B)
4. Serenoa repens	5	Yes	FACU	Prevalence Index = B/A = 2.76
5. Ilex glabra	3	Yes	FACW	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
	 15 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:		of total cover:	3	
Herb Stratum (Plot size: 10m x 10m )				
1. Pinus palustris	1	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be
2. Andropogon virginicus	20	Yes	FAC	present, unless disturbed or problematic.
3. Solidago fistulosa	10	Yes	FAC	Definitions of Four Vegetation Strata:
4. Vaccinium myrsinites		No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Ilex glabra		No	FACW	more in diameter at breast height (DBH), regardless of
6. Vaccinium corymbosum	1	No	FACW	height.
7. Xyris elliottii	5	No	OBL	
8. Rhynchospora tracyi		No	OBL	Sapling/Shrub – Woody plants, excluding vines, less
9. Rhexia nashii	1	No	FACW	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.	_			
11.				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
·-·		Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:		of total cover:	9	height.
Woody Vine Stratum (Plot size: 10m x 10m		01 10101 22.2.	<u>_</u> _	
1.	,			
2.				
3.				
4.				
+ 5.				
5.		-Tatal Cover		Hydrophytic
50% of total cover:		=Total Cover		Vegetation
50% of total cover:	ZU70	of total cover:		Present?         YesX
Remarks: (If observed, list morphological adapta	itions below.)			

Planted Pinus elliottii makes up the canopy with 5% cover. Not included in calculations because it was planted. No woody vine stratum observed within plot.

Sampling Point: W8_WD19

SOIL Sampling Point: W8_WD19

	ription: (Describe t	o the dept				tor or co	nfirm the absence	of indicators.)			
Depth	Matrix			Feature		. 2	<b>-</b> .				
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks			
0-4	10YR 2/1	70					Sandy	Remaining soil unmasked 10YR 6/1			
4-6	10YR 4/1	50					Sandy	Remaining soil unmasked 10YR 5/1			
6-12	10YR 3/1	90	10YR 5/1	10	<u>D</u>	<u>M</u>	Sandy				
	oncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix.			
_	ndicators: (Applicat	ole to all L						for Problematic Hydric Soils ³ :			
Histosol			X Thin Dark Su					Muck (A9) (LRR O)			
	ipedon (A2)		Barrier Island		-	12)		Muck (A10) (LRR S)			
Black His			(MLRA 153					Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Mucky	•	· , ·	.RR O)	•	side MLRA 150A)			
	Layers (A5)		Loamy Gleye		(F2)			ed Vertic (F18)			
`	Bodies (A6) (LRR, P,		Depleted Mat				•	side MLRA 150A, 150B)			
	cky Mineral (A7) <b>(LR</b> I		Redox Dark S		` '			ont Floodplain Soils (F19) <b>(LRR P, T)</b>			
	esence (A8) (LRR U)		Depleted Dar		` '		Anomalous Bright Floodplain Soils (F20)				
	ck (A9) <b>(LRR P, T)</b>		Redox Depre		(F8)		•	RA 153B)			
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>					arent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Och	nric (F1	i) (MLRA	A 151)	Very S	hallow Dark Surface (F22)			
	airie Redox (A16) ( <b>M</b>		)Iron-Mangan	ese Mas	ses (F12	2) (LRR 0	), P, T) (outs	side MLRA 138, 152A in FL, 154)			
Sandy M	ucky Mineral (S1) <b>(Li</b>	RR O, S)	Umbric Surfa	ce (F13	) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) <b>(N</b>	ILRA 15	1)	(MLF	RA 153B, 153D)			
Sandy R	edox (S5)		Reduced Ver	tic (F18	) (MLRA	150A, 15	<b>0B)</b> Other (	Explain in Remarks)			
X Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>	A 149A)				
X Dark Sur	face (S7) <b>(LRR P, S</b> ,	T, U)	Anomalous B	Bright Flo	oodplain	Soils (F20	0)				
Polyvalue	e Below Surface (S8)	)	(MLRA 149	9A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,				
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
	None										
Depth (in	nches):						Hydric Soil Prese	ent? Yes <u>X</u> No			
Remarks:			leterle constant to leter. A				tale to tale a section of the				
Soil boring is	terminated at 12 inch	nes due to	nigh water table. A	ingular r	nixing of	served w	ithin the soil profile.				



W8_WD19



Project/Site: Trail Ridge South	City/County:	Clay	Sampling Date: 01/31/19
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_UD19
Investigator(s): N. Adams, B. McGee	Section, Townsh	ip, Range: 19, -7, 23	
Landform (hillside, terrace, etc.): terrace		re, convex, none): convex	Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82°02'41.1"W	Datum: WGS 84
Soil Map Unit Name: Leon fine sand, 0 - 2 pe		NWI classificat	
Are climatic / hydrologic conditions on the site	•		explain in Remarks.)
Are Vegetation, Soil, or Hydrolo		e "Normal Circumstances" present	? Yes X No
Are Vegetation, Soil, or Hydrole	ogynaturally problematic? (If r	needed, explain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling poi	nt locations, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No Is the Samp	alad Araa	
	Yes No X within a We		NoX
·	Yes X No		
Remarks:			
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has been hist asonal high water table resulting in wetlan have been constructed perpendicular to t	torically converted to pine plantatic d vegetation within the furrow, how the slope per silviculture BMPs. Si	on and has beds/furrows. In vever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crack	
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (	(B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roo	ots (C3) Dry-Season Wate	r Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit	ion (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (	(D3)
Inundation Visible on Aerial Imagery (B7	)	X FAC-Neutral Test	(D5)
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) <b>(LRR T,U)</b>
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes X	No Depth (inches):7.5		
Saturation Present? Yes X	No Depth (inches):3	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:	
Remarks: The natural landform has been converted for	ailviaultura praetiona		
The natural landform has been converted for	silviculture practices.		

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3. 4.				Total Number of Dominant Species Across All Strata:4(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B
7.	_			Prevalence Index worksheet:
3.	_			Total % Cover of: Multiply by:
	<del>-</del>	=Total Cover		OBL species 0 $x 1 = 0$
50% of total cover:	20%	of total cover:		FACW species 12 x 2 = 24
Sapling/Shrub Stratum (Plot size: 10m x 10m	)			FAC species 11 x 3 = 33
1. Pinus elliottii	_ 1	No	FACW	FACU species 35 x 4 = 140
2. Pinus palustris	3	No	FACU	UPL species 0 x 5 = 0
3. Persea palustris	1	No	FACW	Column Totals: 58 (A) 197 (B
4. Vaccinium corymbosum	1	No	FACW	Prevalence Index = B/A = 3.40
5. Ilex coriacea	2	No	FACW	Hydrophytic Vegetation Indicators:
6. Ilex glabra	1	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
7. Serenoa repens	30	Yes	FACU	X 2 - Dominance Test is >50%
3. Morella cerifera	1	No	FAC	3 - Prevalence Index is ≤3.0 ¹
	40 =	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: 10m x 10m )  1. Pinus palustris  2. Ilex coriacea	13	No Yes	FACU FACW	¹ Indicators of hydric soil and wetland hydrology must I present, unless disturbed or problematic.
3. Ilex glabra	_ 3	Yes	FACW	Definitions of Four Vegetation Strata:
4. Andropogon virginicus	_ 2	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
5. Vaccinium myrsinites		No	FACU	more in diameter at breast height (DBH), regardless of height.
5. Dichanthelium dichotomum	8	Yes	FAC	noight.
7				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
11	18 9 20%	=Total Cover of total cover:	4	
11.  50% of total cover:  Noody Vine Stratum (Plot size: 10m x 10m	18 9 20%		4	of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:  Noody Vine Stratum (Plot size: 10m x 10m	18 9 20%		4	of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	18 9 20%		4	of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	18 9 20%		4	of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:    50% of total cover:	18 9 20%		4	of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:  Noody Vine Stratum (Plot size: 10m x 10m  1. 2. 3.	18 9 20%		4	of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.
11	9 20%		4	of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in

Planted Pinus elliottii makes up the canopy with 5% cover. Not included in calculations because it was planted. No woody vine stratum was observed within the plot.

Sampling Point: __W8_UD19

SOIL Sampling Point: W8_UD19

		o the dep				ator or co	onfirm the absence	of indicat	ors.)		
Depth (inches)	Matrix Color (moist)	<del></del> -	Color (moist)	Featur %	Type ¹	Loc ²	Texture		Rem	arke	
0-6.5	10YR 2/1	55	Color (moist)		Турс		Sandy	Remair		masked 10YR 4/1	
			40VD 5/4	45				rtoman	ing con an	madica form in	
6.5-15	10YR 3/1	85	10YR 5/1	15	D	<u>M</u>	Sandy				
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	 IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore	 Lining, M=N	Matrix.	
Hydric Soil In	ndicators: (Applicat	ole to all I	RRs, unless othe	rwise n	oted.)		Indicators	for Probl	ematic Hyd	dric Soils³:	
Histosol (	A1)		Thin Dark Su	ırface (S	69) <b>(LRR</b>	S, T, U)	1 cm M	luck (A9)	(LRR O)		
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)		luck (A10)			
Black His	` '		(MLRA 15						dox (A16)		
<u> </u>	Sulfide (A4)		Loamy Muck	•	` , '	.RR O)	•	ide MLR	,		
	Layers (A5)	T 11)	Loamy Gleye					ed Vertic (		0D)	
	Bodies (A6) <b>(LRR, P,</b> cky Mineral (A7) <b>(LRI</b>		Depleted Mar Redox Dark S				•		<b>A 150A, 15</b> 0	ов) F19) <b>(LRR P, T)</b>	
	esence (A8) <b>(LRR U)</b>	K P, 1, U)	Depleted Dai							in Soils (F20)	
	ck (A9) (LRR P, T)		Redox Depre		` '			RA 153B)	it i looupiai	11 00113 (1 20)	
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>		(. 5)		•	arent Mate	rial (F21)		
	rk Surface (A12)	,	Depleted Ocl		1) <b>(MLR</b> /	A 151)			rk Surface	(F22)	
Coast Pra	airie Redox (A16) ( <b>M</b>	LRA 150A					O, P, T) (outs	ide MLR	A 138, 152	A in FL, 154)	
Sandy Mu	ucky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surfa	ice (F13	3) <b>(LRR F</b>	P, T, U)	Barrier Islands Low Chroma Matrix (TS7				
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) <b>(I</b>	MLRA 15	51)	(MLF	LRA 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ver	tic (F18	) (MLRA	150A, 1	<b>50B)</b> Other (	Explain in	Remarks)		
··	Matrix (S6)		Piedmont Flo								
	face (S7) <b>(LRR P, S,</b>		Anomalous E	-	•	•	,				
	Below Surface (S8)		(MLRA 149				³ Indicators of hydrophytic vegetation and				
(LRR S	5, 1, U)		Very Shallow		`	,	wetland hydrology must be present, unless disturbed or problematic.				
Postrictivo I	aver (if observed):		(MLRA 13	0, 132A	, III F E, 1	<del></del>	unless disturbed or problematic.				
	Vone										
Depth (in							Hydric Soil Prese	ent?	Yes	No X	
Remarks:							1.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	terminated at 15 inch	nes due to	high water table. N	lo evide	ence of re	cent soil	alteration.				
_			•								



W8_UD19



Project/Site: Trail Ridge South	City/County: Clay		Sampling Date: 01/31/2019			
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL	Sampling Point: W8_WD20			
Investigator(s): N. Adams, B. McGee	Section, Township, Range	: 18, -7, 23				
Landform (hillside, terrace, etc.): depression	 Local relief (concave, convex	k, none): concave	Slope (%): 0-2			
Subregion (LRR or MLRA): LRR T, MLRA 15	3A Lat: 29°52'50.2"N Long:	-82°02'36.2"W	Datum: WGS 84			
Soil Map Unit Name: Allanton fine sand, 0-2 p		NWI classification				
Are climatic / hydrologic conditions on the site	·		explain in Remarks.)			
Are Vegetation, Soil, or Hydrold	·· —	Circumstances" present				
Are Vegetation, Soil, or Hydrold		explain any answers in Re				
<del></del>	site map showing sampling point loca		·			
Hydrophytic Vegetation Present?	res X No Is the Sampled Area					
1	Yes X No within a Wetland?	Yes X	No			
l ·	/es X No					
Remarks: Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur	er than normal for January and are 5.94 inches aboing the prior week.	ove average for the prior	12 months. An average 1.86			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	ks (B6)			
X Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetate	ed Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	s (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	X Moss Trim Lines (				
X Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Wate	er Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test				
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR 1,U)			
Field Observations:	No. Double (inches).					
	No Depth (inches): 3					
Saturation Present? Yes	No X Depth (inches): Wetland	d Hydrology Present?	Yes X No			
(includes capillary fringe)	Tro X Bepair (mones).	a riyurology r resent:	163 <u>X</u> 110			
	nitoring well, aerial photos, previous inspections), if	available:				
, , ,						
Remarks:						
Sphagnum moss at 3% cover within plot.						

Tree Streture (Diet sine, 40m, 40m,	Absolute	Dominant	Indicator	Dominana Tost wadahast
Tree Stratum (Plot size: 10m x 10m )	% Cover 5	Species?	Status	Dominance Test worksheet:
1. Pinus elliottii		Yes	FACW	Number of Dominant Species
2.				That Are OBL, FACW, or FAC:8(A)
3.				Total Number of Dominant
4				Species Across All Strata: 10 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 80.0% (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		=Total Cover		OBL species 92 x 1 = 92
50% of total cover: 3	20%	of total cover:	1	FACW species 16 x 2 = 32
Sapling/Shrub Stratum (Plot size: 10m x 10m )				FAC species4 x 3 =12
1. Gordonia lasianthus	3	Yes	FACW	FACU species1 x 4 =4
2. Serenoa repens	1	Yes	<u>FACU</u>	UPL species1 x 5 =5
3. Persea palustris	1	Yes	FACW	Column Totals: 114 (A) 145 (B)
4. Morella cerifera	1	Yes	FAC	Prevalence Index = B/A = 1.27
5. Pinus elliottii	1	Yes	FACW	Hydrophytic Vegetation Indicators:
6. Baccharis halimifolia	1	Yes	FAC	1 - Rapid Test for Hydrophytic Vegetation
7. Rhus copallinum	1	Yes	UPL	X 2 - Dominance Test is >50%
8				X 3 - Prevalence Index is ≤3.0 ¹
	9 :	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:5	20%	of total cover:	2	
Herb Stratum (Plot size: 10m x 10m )				
1. Xyris elliottii	50	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Rhynchospora tracyi	40	Yes	OBL	present, unless disturbed or problematic.
3. Andropogon virginicus	1	No	FAC	Definitions of Four Vegetation Strata:
4. Dichanthelium dichotomum	1	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Juncus marginatus	5	No	FACW	more in diameter at breast height (DBH), regardless of
6. Lachnocaulon minus	1	No	OBL	height.
7. Lachnanthes caroliniana	1	No	OBL	
8. Persea palustris	1	No	FACW	Sapling/Shrub – Woody plants, excluding vines, less
9.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
	100 :	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 50		of total cover:	20	height.
Woody Vine Stratum (Plot size: 10m x 10m )	2070	or total cover.		
1 2.				
4.				
5		T-1-1-0		Hydrophytic
F00/ - 54-4-1		=Total Cover		Vegetation No. 1
50% of total cover:	20%	of total cover:		Present?
Remarks: (If observed, list morphological adaptation No woody vine stratum observed within plot.	s below.)			

Sampling Point:

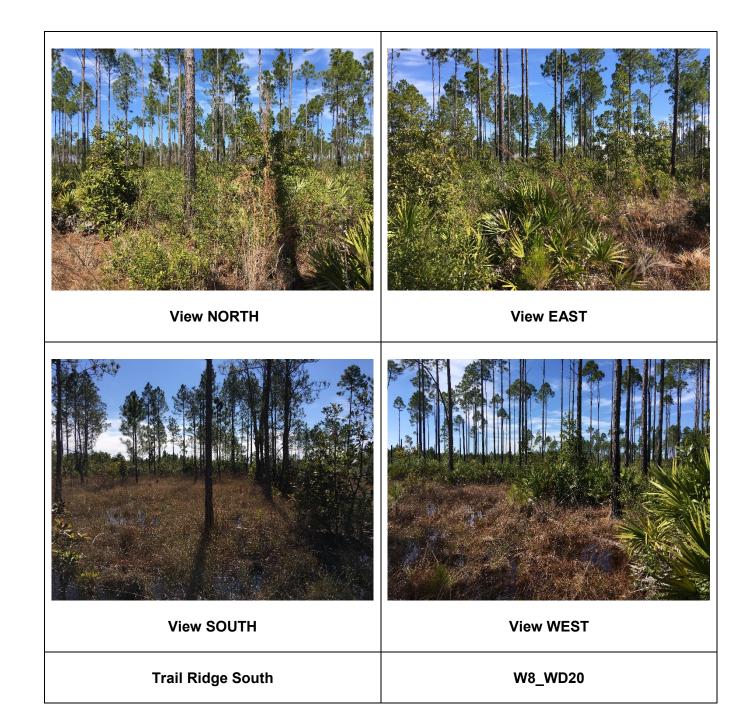
W8_WD20

SOIL Sampling Point: W8_WD20

	ription: (Describe to	o the dep				ator or co	nfirm the absence	of indicators.)			
Depth	Matrix			Feature		. 2	<b>-</b> .	5			
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks			
0-5	10YR 2/1	80					Sandy	Remaining soil unmasked 10YR 6/1			
5-8	10YR 2/1						Sandy	Remaining soil unmasked 10YR 6/1			
8-15	10YR 3/1	40	10YR 5/1		<u>D</u>	_M_	Sandy	Remaining soil unmasked 10YR 4/1			
¹ Type: C=Co	ncentration, D=Deple	 etion, RM=	Reduced Matrix, M	 S=Mask	ed Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.			
	ndicators: (Applicat							for Problematic Hydric Soils ³ :			
Histosol (			X Thin Dark Su		•	S, T, U)		Muck (A9) <b>(LRR O)</b>			
	pedon (A2)		Barrier Island	-				fluck (A10) <b>(LRR S)</b>			
Black His			(MLRA 15		-	,		Prairie Redox (A16)			
— Hydrogen	Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)			
<u> </u>	Layers (A5)		Loamy Gleye	•	· , ·	- ,	•	ed Vertic (F18)			
	Bodies (A6) (LRR, P,	T. U)	Depleted Mat					side MLRA 150A, 150B)			
	cky Mineral (A7) <b>(LRI</b>		Redox Dark S				•	ont Floodplain Soils (F19) <b>(LRR P, T)</b>			
	esence (A8) (LRR U)		Depleted Dar					alous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre	ssions (	(F8)			RA 153B)			
 Depleted	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	RR U)			Red Pa	arent Material (F21)			
Thick Dar	rk Surface (A12)		Depleted Och	nric (F11	1) <b>(MLR</b>	A 151)	Very S	hallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) ( <b>M</b>	LRA 150A		-							
Sandy Mu	ucky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surfa	ce (F13	) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) <b>(N</b>	ILRA 15	1)	(MLRA 153B, 153D)				
Sandy Re	edox (S5)		Reduced Ver	tic (F18	) (MLRA	150A, 15	,				
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b> /					
X Dark Surf	face (S7) <b>(LRR P, S,</b>	T, U)	Anomalous E	Bright Flo	oodplain	Soils (F20					
X Polyvalue	e Below Surface (S8)		(MLRA 149	9A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	s, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,				
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: <u>N</u> Depth (in	None ches):						Hydric Soil Prese	ent? Yes X No			
Remarks:											
	terminated at 15 incl	nes due to	high water table. N	lo evide	nce of re	cent soil a	alteration.				



W8_WD20



Project/Site: Trail Ridge South	City/County: Cla	City/County: Clay Sampling I					
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_UD20				
Investigator(s): N. Adams, B. McGee	Section, Township, F	Section, Township, Range: 18, -7, 23					
Landform (hillside, terrace, etc.): hillside	Local relief (concave, co		Slope (%): 0-1				
Subregion (LRR or MLRA): LRR T, MLRA 15	<u> </u>	Long: -82°02'36.8"W	Datum: WGS 84				
Soil Map Unit Name: Hurricane fine sand, 0-5	_	NWI classification	<del></del>				
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes	X No (If no, ex	plain in Remarks.)				
Are Vegetation, Soil, or Hydrok		ormal Circumstances" present?	Yes X No				
Are Vegetation, Soil, or Hydrok		ded, explain any answers in Ren					
SUMMARY OF FINDINGS – Attach							
Hydrophytic Vegetation Present?	Yes X No Is the Sampled						
	Yes No X within a Wetlan		No X				
l ·	Yes X No						
Remarks:							
inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows in some areas	er than normal for January and are 5.94 inche ing the prior week. The site has been historic asonal high water table resulting in wetland ve have been constructed perpendicular to the ser within the furrows during abnormally wet pe	ally converted to pine plantation egetation within the furrow, howe slope per silviculture BMPs. Sin	and has beds/furrows. In ever upland plants remain				
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)				
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Cracks					
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)				
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (					
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B	•				
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (	<del></del>	•				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C					
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)						
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Positio	on (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D	03)				
Inundation Visible on Aerial Imagery (B7	<del></del> )	X FAC-Neutral Test (I	D5)				
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)					
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches): 7.5						
Saturation Present? Yes X	No Depth (inches):4 We	etland Hydrology Present?	YesX _ No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspection	ns), if available:					
Remarks:							
The natural landform has been converted for	silviculture practices.						

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m )	% Cover	Species?	Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3.     4.				Total Number of Dominant Species Across All Strata:4(B)
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	:	Total Cover		OBL species 2 x 1 = 2
50% of total cover:	20%	of total cover:		FACW species 16 x 2 = 32
Sapling/Shrub Stratum (Plot size: 10m x 10m )	1			FAC species 3 x 3 = 9
1. Ilex coriacea	5	No	FACW	FACU species 60 x 4 = 240
2. Ilex glabra	5	No	FACW	UPL species1 x 5 =5
3. Serenoa repens	60	Yes	FACU	Column Totals: 82 (A) 288 (B)
4. Persea palustris	1	No	FACW	Prevalence Index = B/A = 3.51
5. Vaccinium corymbosum	1	No	FACW	Hydrophytic Vegetation Indicators:
6. Quercus chapmanii	1	No	UPL	1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	73	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 3	7 20%	of total cover:	15	
Herb Stratum (Plot size: 10m x 10m )				
1. Ilex coriacea	3	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2. Dichanthelium dichotomum	3	Yes	FAC	present, unless disturbed or problematic.
3. Hypericum fasciculatum	1	No	FACW	Definitions of Four Vegetation Strata:
4. Lycopodiella appressa	2	Yes	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of height.
7				Sanling/Shrub Woody plants evaluding vines loss
8				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				g 2 ()
10				Harb All barbassas (nan waash) nlanta nanandlasa
11 12.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.	9 :	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:		of total cover:	2	height.
Woody Vine Stratum (Plot size: 10m x 10m )	2070	or total cover.		
1.				
2.				
3.				
4		-		
5		Tatal Comm		Hydrophytic
F00/ - \$4-4-1		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present?
Remarks: (If observed, list morphological adaptatio	ns below.)			

Planted Pinus elliottii makes up the canopy with 15% cover. Not included in calculations because it was planted. No woody vine stratum observed within plot.

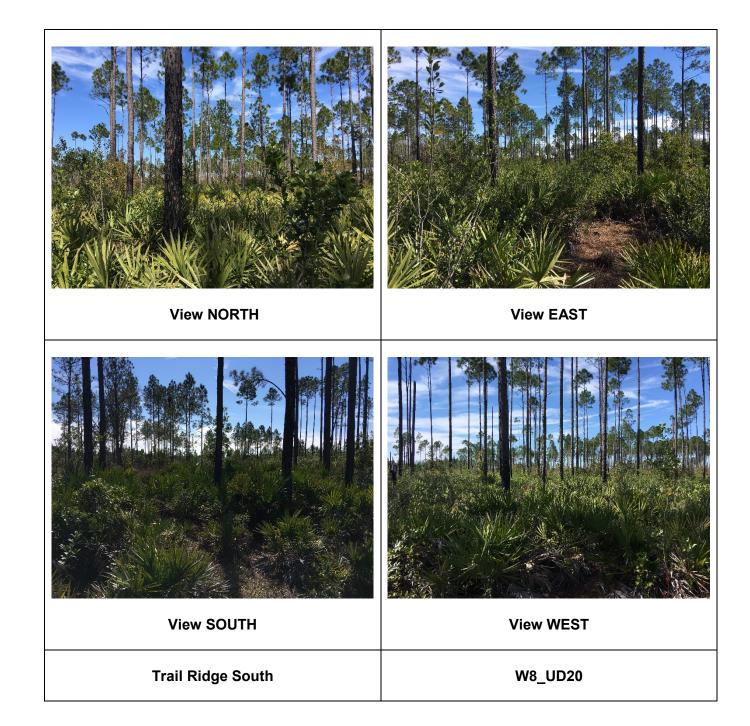
Sampling Point: __W8_UD20

SOIL Sampling Point: W8_UD20

	ription: (Describe t	o the dept				itor or co	nfirm the absence	of indic	ators.)		
Depth	Matrix			Feature		. 2	<b>-</b> .				
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Rem			
0-5	10YR 3/1						Sandy			masked 10YR 6/1	
5-8	10YR 4/1						Sandy	Rema	aining soil un	masked 10YR 6/1	
8-15	10YR 4/1	85	10YR 5/1	15	<u>D</u>	<u>M</u>	Sandy	epletions inc	crease to 50%		
									throughout	soil profile	
	oncentration, D=Deple					Grains.			e Lining, M=I		
	ndicators: (Applicat	ole to all L							blematic Hy	dric Soils³:	
Histosol	(A1)		Thin Dark Su	-			1 cm M	luck (A9	) (LRR O)		
	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A1	0) <b>(LRR S)</b>		
Black His	stic (A3)		(MLRA 153	3B, 153	D)		Coast I	Prairie F	Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Mucky	y Minera	al (F1) <b>(L</b>	RR O)	(outs	ide ML	RA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	(F2)		Reduce	ed Vertic	c (F18)		
Organic I	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(outs	ide ML	RA 150A, 15	0B)	
5 cm Mu	cky Mineral (A7) <b>(LR</b> I	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floo	dplain Soils (	(F19) <b>(LRR P, T)</b>	
Muck Pre	esence (A8) (LRR U)		Depleted Dar	rk Surfa	ce (F7)		Anoma	lous Bri	ght Floodpla	in Soils (F20)	
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions (	(F8)		(MLF	RA 153B	3)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Parent Material (F21)				
Thick Da	rk Surface (A12)		Depleted Och	nric (F1	1) <b>(MLR</b> /	A 151)	Very Shallow Dark Surface (F22)				
Coast Pr	airie Redox (A16) ( <b>M</b>	LRA 150A)	Iron-Mangane	ese Mas	sses (F1	2) <b>(LRR C</b>	D, P, T) (outside MLRA 138, 152A in FL, 154)				
Sandy M	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa	ice (F13	) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) <b>(N</b>	/ILRA 15	1)	(MLRA 153B, 153D)				
Sandy R	edox (S5)		Reduced Ver	tic (F18	) (MLRA	150A, 15	,				
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>	A 149A)				
Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous B	Bright Flo	oodplain	Soils (F2	0)				
Polyvalue	e Below Surface (S8)		(MLRA 149	9A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,				
			(MLRA 138	B, 152A	in FL, 1	54)	unless disturbed or problematic.				
Restrictive L	ayer (if observed):										
Type: I	None										
Depth (in	nches):						Hydric Soil Prese	ent?	Yes	No _X	
Remarks:						_					
Soil boring is	terminated at 15 inch	nes due to	high water table. A	rea with	in plot is	bedded a	and furrowed. No evi	dence o	f recent soil	alteration.	



W8_UD20



Project/Site: Trail Ridge South	City/County	City/County: Clay San					
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL					
Investigator(s): N.Adams, B.McGee	Section, Townsh	Section, Township, Range: 18, -7, 23					
Landform (hillside, terrace, etc.): hillside	 Local relief (concav	/e, convex, none): none	Slope (%): 0-1%				
Subregion (LRR or MLRA): LRR T, MLRA 15	3A Lat: 29° 53' 02.3"N	Long: -82° 02' 40.1"W	Datum: WGS 84				
Soil Map Unit Name: Allanton and Rutlege m		NWI classifica	tion: Upland				
Are climatic / hydrologic conditions on the site	typical for this time of year?	'es X No (If no, e	explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are	e "Normal Circumstances" present	? Yes X No				
Are Vegetation, Soil, or Hydrold		needed, explain any answers in Re	emarks.)				
SUMMARY OF FINDINGS – Attach			•				
Hydrophytic Vegetation Present?	Yes X No Is the Sam	oled Area					
	Yes X No within a We		No				
	Yes X No						
Remarks:							
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has been his asonal high water table resulting in wetlar have been constructed perpendicular to	torically converted to pine plantation of the plantation of the furrow, how the slope per silviculture BMPs. S	on and has beds/furrows. In vever upland plants remain				
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is require	ed; ch <u>eck all that apply)</u>	Surface Soil Crac	•				
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)				
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns					
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	B16)				
Water Marks (B1)	Oxidized Rhizospheres on Living Roo						
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Saturation Visible	on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	ion (D2)				
X Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	(D3)				
Inundation Visible on Aerial Imagery (B7)	)	X FAC-Neutral Test	(D5)				
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) <b>(LRR T,U)</b>				
Field Observations:							
	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches): 5						
Saturation Present? Yes X	No Depth (inches):0	Wetland Hydrology Present?	YesX No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ctions), if available:					
Domorko							
Remarks: The natural landform has been converted for	silviculture practices. Sphagnum moss c	overs 5% of the plot					

Tre	ee Stratum (Plot size: 10m x 10m )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1.	( lot 0.25	70 00101	ороског.	Ctatas	Number of Dominant Species			
2.					That Are OBL, FACW, or FAC:3 (A)			
3. 4.					Total Number of Dominant Species Across All Strata: 4 (B)			
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC:75.0%(A/B)			
7.					Prevalence Index worksheet:			
8.					Total % Cover of: Multiply by:			
			=Total Cover		OBL species15 x 1 =15			
	50% of total cover:	20%	of total cover:		FACW species 17 x 2 = 34			
Sa	pling/Shrub Stratum (Plot size: 10m x 10m )				FAC species 3 x 3 = 9			
1.	Pinus elliottii	2	No	FACW	FACU species 11 x 4 = 44			
2.	Persea palustris	1	No	FACW	UPL species 1 x 5 = 5			
3.	Serenoa repens	10	Yes	FACU	Column Totals: 47 (A) 107 (B)			
4.	Morella cerifera	1	No	FAC	Prevalence Index = B/A = 2.28			
5.	ilex glabra	5	Yes	FACW	Hydrophytic Vegetation Indicators:			
6.					1 - Rapid Test for Hydrophytic Vegetation			
7.					X 2 - Dominance Test is >50%			
8.					X 3 - Prevalence Index is ≤3.0 ¹			
		19	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)			
	50% of total cover: 10	20%	of total cover:	4				
Не	rb Stratum (Plot size: 10m x 10m )							
1.	Xyris elliottii	8	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be			
2.	Juncus marginatus	8	Yes	FACW	present, unless disturbed or problematic.			
3.	Woodwardia virginica	3	No	OBL	Definitions of Four Vegetation Strata:			
4.	Hypericum tetrapetalum	1	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or			
5.	Vaccinium myrsinites	1	No	FACU	more in diameter at breast height (DBH), regardless of			
6.	Rhynchospora sp.	3	No	OBL	more in diameter at breast height (DBH), regardless height.			
7.	Dichanthelium dichotomum	1	No	FAC				
8.	Pinus elliottii	1	No	FACW	Sapling/Shrub – Woody plants, excluding vines, less			
9.	Rubus argutus	1	No	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
	Cladonia sp.	1	No	UPL				
	Lycopodium sp.	2	No		Herb – All herbaceous (non-woody) plants, regardless			
12.					of size, and woody plants less than 3.28 ft tall.			
		30	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in			
	50% of total cover: 15		of total cover:	6	height.			
Wr	pody Vine Stratum (Plot size: 10m x 10m )	2070	or total cover.					
1.	·							
2.								
3.								
3. 4.								
4. 5.								
J.			-Total Cavar		Hydrophytic			
	E00/ of total agree		=Total Cover of total cover:		Vegetation   Present?   Yes X   No			
	50% of total cover:		or total cover.		Present?			
Re	marks: (If observed, list morphological adaptation	s below )						

Planted Pinus elliottii makes up the canopy with 15% cover. Not included in calculations because it was planted. vines observed in stratum.

No woody

Sampling Point: W8-WD21

SOIL Sampling Point: W8-WD21

		o the dept				ator or co	onfirm the absence of	of indicators.)			
Depth	Matrix Color (moiet)	0/		Feature		Loc ²	Touture	Domorko			
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u></u> %	Type ¹	LOC	Texture	Remarks  Remarks			
0-3	10YR 2/1	70 _	10/0 5/1			<del></del>	Sandy	Remaining soil umasked 10YR 4/1			
3-8	10YR 3/1		10YR 5/1	10	<u>D</u>	M	Sandy	80% 10YR 4/1			
8-15	10YR 3/1		10YR 5/1		<u>D</u>	M	Sandy 70% 10YR 4/1				
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masl	ked Sand	Grains.	² Location: F				
	ndicators: (Applicat							for Problematic Hydric Soils ³ :			
Histosol (			X Thin Dark Su			S, T, U)		uck (A9) <b>(LRR O)</b>			
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)			
Black His	tic (A3)		(MLRA 153	3B, 153	D)		Coast F	Prairie Redox (A16)			
— Hydrogen	Sulfide (A4)		Loamy Mucky			RR O)		ide MLRA 150A)			
	Layers (A5)		Loamy Gleye	d Matrix	k (F2)	•	Reduce	d Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	Depleted Mat					ide MLRA 150A, 150B)			
	cky Mineral (A7) (LRI		Redox Dark S	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anomal	ous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre	ssions (	(F8)		— (MLR	A 153B)			
 Depleted	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	RR U)			Red Pa	rent Material (F21)			
Thick Dar	rk Surface (A12)		Depleted Och	nric (F1	1) <b>(MLR</b> A	A 151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) ( <b>M</b> I	LRA 150A	) Iron-Mangane	ese Mas	sses (F12	2) <b>(LRR (</b>	O, P, T) (outside MLRA 138, 152A in FL, 154)				
Sandy Mu	ucky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surfa	ce (F13	) (LRR P	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) <b>(N</b>	ILRA 15	1)	(MLRA 153B, 153D)				
Sandy Re	edox (S5)		Reduced Ver	tic (F18	) (MLRA	150A, 1	50B) Other (Explain in Remarks)				
X Stripped	Matrix (S6)		Piedmont Flo	Piedmont Floodplain Soils (F19) (MLRA 149A)							
Dark Surf	face (S7) <b>(LRR P, S,</b>	T, U)	Anomalous B	right Flo	oodplain	Soils (F2	20)				
Polyvalue	e Below Surface (S8)		(MLRA 149	9A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	s, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,				
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: _ Depth (in	choc):						Hydric Soil Prese	nt? Yes X No			
							Tiyunc 3011 Fiese				
	terminated at 15 inchecent soil alteration.	nes due to	high water table.					No			
evidence of re	ecent son alteration.										



W8_WD21



Project/Site: Trail Ridge South	City/County: Clay	Sampling Date: 1/31/19					
Applicant/Owner: The Chemours Compan	ny FC, LLC	State: FL Sampling Point: W8-UD21					
Investigator(s): N.Adams, B.McGee	Section, Township, Rang	Section, Township, Range: 18, -7, 23					
Landform (hillside, terrace, etc.): hillside	Local relief (concave, conve	ex, none): none Slope (%): 0-2%					
Subregion (LRR or MLRA): LRR T, MLRA 15:		g: -82° 02' 40.8"W Datum: WGS 84					
Soil Map Unit Name: Allanton and Rutlege mi	<del></del>	NWI classification: Upland					
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "Norma	al Circumstances" present? Yes X No					
Are Vegetation, Soil, or Hydrold		explain any answers in Remarks.)					
		ations, transects, important features, etc.					
Hydrophytic Vegetation Present?	Yes X No Is the Sampled Area	a					
	Yes No X within a Wetland?	Yes No _X_					
_ ·	Yes X No	<del>_</del>					
Remarks:							
inches of rainfall was recorded at the site duri some areas the furrows may intercept the sea on the bed. Beds and furrows in some areas	ing the prior week. The site has been historically asonal high water table resulting in wetland vegeta	pove average for the prior 12 months. An average 1.86 converted to pine plantation and has beds/furrows. In ation within the furrow, however upland plants remain a per silviculture BMPs. Since furrows are constructed s.					
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)					
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)					
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)					
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)					
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	)	X FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)					
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches):8						
Saturation Present? Yes X	No Depth (inches): 2	nd Hydrology Present? Yes X No					
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), i	if available:					
Remarks: The natural landform has been converted for	silviculture practices. Sphagnum moss covers les	ss than 1% of the plot.					

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 10m x 10m )	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
				That Are OBL, FACW, or FAC: 2 (A
-				Total Number of Dominant Species Across All Strata: 3 (B
				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		=Total Cover		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
50% of total cover:		of total cover:		FACW species 38 x 2 = 76
		or total cover.		· — —
bling/Shrub Stratum (Plot size: 10m x 10m	•	NI.	EA 0\A/	FAC species 6 x 3 = 18
Persea palustris	2	No No	FACW	FACU species 56 x 4 = 224
Serenoa repens	55	Yes	FACU	UPL species 2 x 5 = 10
llex glabra	20	Yes	FACW	Column Totals: 102 (A) 328
Quercus geminata	2	No	UPL	Prevalence Index = B/A = 3.22
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
	79	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	40 20%	of total cover:	16	
	40 20%	of total cover:	16	
rb Stratum (Plot size: 10m x 10m )				1
rb Stratum (Plot size: 10m x 10m )  Ilex glabra	15	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology mus
rb Stratum (Plot size: 10m x 10m )  Ilex glabra  Dichanthelium dichotomum	15 3	Yes No	FACW FAC	present, unless disturbed or problematic.
lex glabra  Dichanthelium dichotomum  Andropogon virginicus	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:
llex glabra  Dichanthelium dichotomum	15 3	Yes No	FACW FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm
lex glabra  Dichanthelium dichotomum  Andropogon virginicus	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:
lex glabra  Dichanthelium dichotomum  Andropogon virginicus	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless
lex glabra  Dichanthelium dichotomum  Andropogon virginicus	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless
rb Stratum (Plot size: 10m x 10m )  Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.
llex glabra  Dichanthelium dichotomum  Andropogon virginicus	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, le
Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall.
rb Stratum (Plot size: 10m x 10m )  Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, le
llex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum	15 3 3	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless
rb Stratum (Plot size: 10m x 10m )  Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum	15 3 3 1	Yes No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, le than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless
Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum	15 3 3 1	Yes No No No	FACW FAC FAC	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
rb Stratum (Plot size: 10m x 10m )  Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum  50% of total cover:	15 3 3 1	Yes No No No Total Cover	FACW FAC FACU	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft
rb Stratum (Plot size: 10m x 10m )  Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum  50% of total cover:	15 3 3 1	Yes No No No Total Cover	FACW FAC FACU	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft
rb Stratum (Plot size: 10m x 10m )  Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum  50% of total cover:  pody Vine Stratum (Plot size: 10m x 10m )	15 3 1	Yes No No No To Total Cover To of total cover:	FACW FAC FACU FACU	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft
Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum  50% of total cover:  body Vine Stratum (Plot size: 10m x 10m )	15 3 1	Yes No No No To Total Cover To of total cover:	FACW FAC FACU FACU	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft
Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum  50% of total cover:  body Vine Stratum (Plot size: 10m x 10m )	15 3 1	Yes No No No To Total Cover To of total cover:	FACW FAC FACU FACU	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft
Prib Stratum (Plot size: 10m x 10m )  Ilex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum  50% of total cover:	15 3 1	Yes No No No To Total Cover To of total cover:	FACW FAC FACU FACU	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft
llex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum  50% of total cover:  oody Vine Stratum (Plot size: 10m x 10m )	15 3 3 1 —————————————————————————————	Yes No No No No  Total Cover Total cover: No	FACW FAC FACU FACU	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft height.  Hydrophytic
llex glabra  Dichanthelium dichotomum  Andropogon virginicus  Pteridium aquilinum  50% of total cover:  oody Vine Stratum (Plot size: 10m x 10m )	15 3 3 1 —————————————————————————————	Yes No No No To Total Cover To of total cover:	FACW FAC FACU FACU	present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless height.  Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft height.

SOIL Sampling Point: W8-UD21

	iption: (Describe to	o the dept				ator or co	nfirm the absence	of indica	itors.)		
Depth (inches)	Color (moist)	<u></u> %	Color (moist)	x Featur %	Type ¹	Loc ²	Texture		Ren	narks	
0-5	10YR 4/1	40			.,,,,,		Sandy	Remai		nmasked 10YR 6	— /1
5-9	10YR 4/1						Sandy	Remaining 50% unmasked 10YR			_
9-15	10YR 6/1	90	10YR 7/1	10	<u>D</u>	M	Sandy				_
											-
											-
											_
	ncentration, D=Deple					d Grains.	² Location:				
	idicators: (Applicat	ole to all L							_	dric Soils³:	
— Histosol (	•		Thin Dark Su	-					(LRR O)		
	pedon (A2)		Barrier Island			12)			)) (LRR S)		
Black His	Sulfide (A4)		(MLRA 15 Loamy Muck			PP ()			edox (A16) RA 150A)		
	Layers (A5)		Loamy Gleye	•	` ' '	.KK 0)	•	ed Vertic	•		
	Bodies (A6) (LRR, P,	T. U)	Depleted Ma						(† 15) RA 150A, 15	50B)	
	ky Mineral (A7) <b>(LRI</b>		Redox Dark	` '			•		•	(F19) <b>(LRR P, T)</b>	
	sence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)					in Soils (F20)	
1 cm Muc	k (A9) <b>(LRR P, T)</b>		Redox Depre	essions (	(F8)		— (MLF	RA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	.RR U)			Red Parent Material (F21)				
	k Surface (A12)		Depleted Oc	-			Very Shallow Dark Surface (F22)				
	nirie Redox (A16) (M										
	icky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gi	eyed Matrix (S4)		— Delta Ochric Reduced Ver				(MLRA 153B, 153D)				
	Matrix (S6)		Piedmont Flo	•							
	ace (S7) <b>(LRR P, S,</b>	T. U)	Anomalous E	•	,	, .	•				
	Below Surface (S8)		(MLRA 14	-		-	³ Indicators of hydrophytic vegetation and				
(LRR S			Very Shallow				wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
Restrictive L	ayer (if observed):										
Type: _											
Depth (inc	ches):						Hydric Soil Prese	ent?	Yes	NoX	
	terminated at 15 inch		high water table	Area wit	hin the p	lot is bedo	led and furrowed.				
	7 TOOCHE SON GILOTAIR	JII.									



W8_UD21



Project/Site: Trail Ridge South	City/Cou	unty: Clay	Sampling Date: 1/30/19
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD22
Investigator(s): B.McGee, N.Adams	Section, Tow	/nship, Range: 18, -7, 23	
Landform (hillside, terrace, etc.): hillside	Local relief (cor	ncave, convex, none): none	Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 02' 37.4"W	Datum: WGS 84
		· · · · · · · · · · · · · · · · · · ·	
Soil Map Unit Name: Leon fine sand, 0-2 perd	·	NWI classifica	
Are climatic / hydrologic conditions on the site		<del></del>	explain in Remarks.)
Are Vegetation, Soil, or Hydrold		Are "Normal Circumstances" present	t? Yes X No
Are Vegetation, Soil, or Hydrold	ogynaturally problematic?	(If needed, explain any answers in R	.emarks.)
SUMMARY OF FINDINGS - Attach	site map showing sampling	point locations, transects, ir	nportant features, etc.
Lludrophytic Veretation Present?	Yes X No Is the S	ampled Area	
, , , ,		ampled Area Wetland? Yes X	No
,	Yes X No	Youand: 163 X	
Remarks:	·····		
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has been asonal high water table resulting in we have been constructed perpendicular	historically converted to pine plantation betand vegetation within the furrow, how to the slope per silviculture BMPs.	on and has beds/furrows. In wever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	X Moss Trim Lines	(B16)
Water Marks (B1)	Oxidized Rhizospheres on Living	<del></del>	
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	; (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled S	oils (C6) Saturation Visible	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	ition (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	(D3)
Inundation Visible on Aerial Imagery (B7)	)	X FAC-Neutral Tes	t (D5)
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) <b>(LRR T,U)</b>
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):	_	
Water Table Present? Yes X	No Depth (inches):6	_	
Saturation Present? Yes X	No Depth (inches):0	Wetland Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous in	spections), if available:	
Remarks:			
The natural landform has been converted for	silviculture practices. Sphagnum mos	ss 30% cover throughout plot.	

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m )	% Cover	Species?	Status	Dominance Test worksheet:
1 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 3(A)
3. 4.				Total Number of Dominant Species Across All Strata: 3 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		=Total Cover		OBL species $3 \times 1 = 3$
50% of total cover:	20%	of total cover:		FACW species 92 x 2 = 184
Sapling/Shrub Stratum (Plot size: 10m x 10m	)			FAC species 1 x 3 = 3
1. Gordonia lasianthus	_ [*] 5	No	FACW	FACU species 6 x 4 = 24
2. Pinus palustris	1	No	FACU	UPL species 0 x 5 = 0
3. Vaccinium corymbosum	3	No	FACW	Column Totals: 102 (A) 214 (B)
4. Serenoa repens	5	No	FACU	Prevalence Index = B/A = 2.10
5. Ilex glabra	55	Yes	FACW	Hydrophytic Vegetation Indicators:
5.	_			X 1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.0 ¹
8.				
3		=Total Cover of total cover:	14	Problematic Hydrophytic Vegetation ¹ (Explain)
			14 FAC OBL	Problematic Hydrophytic Vegetation (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
50% of total cover:	35 20%	of total cover:	FAC	¹ Indicators of hydric soil and wetland hydrology must be
50% of total cover:  Herb Stratum (Plot size:10m x 10m)  1. Morella cerifera  2. Hypericum tetrapetalum  3. Ilex glabra	35 20% 1 3	of total cover:  No No	FAC OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
50% of total cover:	35 20%  1 3 15	of total cover:  No No Yes	FAC OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
50% of total cover:	35 20%  1 3 15 1	of total cover:  No No Yes No	FAC OBL FACW FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
50% of total cover:	35 20%  1 3 15 1 3	No No Yes No No	FAC OBL FACW FACW FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
50% of total cover:	35 20%  1 3 15 1 3 10	No No Yes No No	FAC OBL FACW FACW FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less
50% of total cover:	35 20%  1 3 15 1 3 10  33 17 20%	No No Yes No No	FAC OBL FACW FACW FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless
50% of total cover:	35 20%  1 3 15 1 3 10  33 17 20%	No No No No No No Yes No No Yes  Total Cover	FAC OBL FACW FACW FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	35 20%  1 3 15 1 3 10  33 17 20%	No No No No No No Yes No No Yes  Total Cover	FAC OBL FACW FACW FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	35 20%  1 3 15 1 3 10  33 17 20%	No No No No No No Yes No No Yes  Total Cover	FAC OBL FACW FACW FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	35 20%  1 3 15 1 3 10  33 17 20%	No No No No No No Yes No No Yes  Total Cover	FAC OBL FACW FACW FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	35 20%  1 3 15 1 3 10  33 17 20%	No No No No No No Yes No No Yes  Total Cover	FAC OBL FACW FACW FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	35 20%  1 3 15 1 3 10  33 17 20%	No No No No No No Yes No No Yes  Total Cover	FAC OBL FACW FACW FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in height.
50% of total cover:	35 20%  1 3 15 1 3 10 3 17 20%	No No No No No No Yes No No Yes  Total Cover	FAC OBL FACW FACW FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine – All woody vines greater than 3.28 ft in

Planted Pinus elliottii makes up the canopy with 10 percent cover. Not included in calculations because it was planted. No woody vines observed in stratum.

Sampling Point: W8-WD22

SOIL Sampling Point: W8-WD22

		o the dept				ator or co	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	Featur %		Loc ²	Texture	Remarks
(inches) 0-5.5	Color (moist) 10YR 3/1	60	Color (moist)		Type ¹	Loc	Sandy	Remaining 40% unmasked 10YR 6/1
5.5-15	10YR 4/1	40	10YR 6/1	10			Sandy	Remaining 50% unmasked 10YR 5/1
								Depletion increase throughout soil profile
	ncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix.
-	ndicators: (Applicat	ole to all L						for Problematic Hydric Soils ³ :
— Histosol (			Thin Dark Su					Muck (A9) (LRR O)
	ipedon (A2)		Barrier Island			12)		Muck (A10) (LRR S)
Black His			(MLRA 15 Loamy Muck			DD ()		Prairie Redox (A16) side MLRA 150A)
	1 Sulfide (A4)		′	,	· , ·	.KK U)	•	<b>,</b>
	Layers (A5) Bodies (A6) <b>(LRR, P,</b>	T II)	Loamy Gleye Depleted Ma					ed Vertic (F18) side MLRA 150A, 150B)
	cky Mineral (A7) <b>(LRI</b>		Redox Dark	` ,			•	ont Floodplain Soils (F19) (LRR P, T)
	esence (A8) (LRR U)	, . , 0 ,	Depleted Dai		` '			alous Bright Floodplain Soils (F20)
	ck (A9) (LRR P, T)		Redox Depre		` '			RA 153B)
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>		( - /		•	arent Material (F21)
	rk Surface (A12)	,	Depleted Ocl		1) <b>(MLR</b>	A 151)		hallow Dark Surface (F22)
Coast Pra	airie Redox (A16) ( <b>M</b>	LRA 150A					D, P, T) (outs	side MLRA 138, 152A in FL, 154)
Sandy M	ucky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chroma Matrix (TS7)
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) <b>(I</b>	MLRA 15	1)	— (MLF	RA 153B, 153D)
Sandy Re	edox (S5)		Reduced Ver	tic (F18	) (MLRA	150A, 1	<b>50B)</b> Other (	Explain in Remarks)
X Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>	A 149A)	
Dark Sur	face (S7) <b>(LRR P, S</b> ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	(0)	
	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)			tors of hydrophytic vegetation and
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetla	and hydrology must be present,
			(MLRA 13	B, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
Restrictive L	ayer (if observed):							
Type: 1	None							
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No
_	terminated at 15 inch of recent soil alteratio		high water table. i	Area wit	thin the p	lot is bed	ded and furrowed.	



W8_WD22



Project/Site: Trail Ridge South	City/County: C	lay Sampling Date: 1/30/19
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W8-UD22
Investigator(s): B.McGee, N.Adams	Section, Township,	Range: 18, -7, 23
Landform (hillside, terrace, etc.): hillslide	Local relief (concave, o	
Subregion (LRR or MLRA): LRR T, MLRA 15	· · · · · · · · · · · · · · · · · · ·	Long: -82° 02' 36.8"W Datum: WGS 84
		NWI classification: Upland
Soil Map Unit Name: Leon fine sand, 0-2 per	·	
Are climatic / hydrologic conditions on the site		X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	· · · · · · · · · · · · · · · · · · ·	Iormal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrold	ogynaturally problematic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling point	locations, transects, important features, etc.
Lludrophytic Veretation Present?	Voc. V. No. Je the Complex	J Auga
	Yes X No X Is the Sampled Yes No X within a Wetla	
_ ·	Yes X No	163 NO X
Remarks:		
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the sea	ing the prior week. The site has been histori asonal high water table resulting in wetland v have been constructed perpendicular to the	es above average for the prior 12 months. An average 1.86 cally converted to pine plantation and has beds/furrows. In regetation within the furrow, however upland plants remain slope per silviculture BMPs. Since furrows are constructed eriods.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots	(C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)
Field Observations:	No. V. Double (makes)	
	No X Depth (inches):	
	No Depth (inches): 8	Intland Hydrology Present? Vos. V No.
Saturation Present? Yes X (includes capillary fringe)	No Depth (inches): 4 <b>W</b>	/etland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspection	ons), if available:
Remarks:		
The natural landform has been converted for	silviculture practices. Sphagnum moss $2\%$	cover throughout plot.

1.		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)  Total Number of Dominant Species Across All Strata: 4 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0  FACW species 50 x 2 = 100
2	20% 30 10	of total cover:		That Are OBL, FACW, or FAC: 3 (A)  Total Number of Dominant Species Across All Strata: 4 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0
4	20% 30 10	of total cover:		Species Across All Strata:         4         (B)           Percent of Dominant Species That Are OBL, FACW, or FAC:         75.0%         (A/B)           Prevalence Index worksheet:         Total % Cover of:         Multiply by:           OBL species         0         x 1 =         0
6	20% 30 10	of total cover:		That Are OBL, FACW, or FAC: 75.0% (A/B)           Prevalence Index worksheet:           Total % Cover of: Multiply by:           OBL species 0 x 1 = 0
50% of total cover:  Sapling/Shrub Stratum (Plot size: 10m x 10m )  1. Ilex coriacea  2. Ilex glabra  3. Vaccinium corymbosum	20% 30 10	of total cover:		Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0
50% of total cover:  Sapling/Shrub Stratum (Plot size: 10m x 10m )  1. Ilex coriacea 2. Ilex glabra 3. Vaccinium corymbosum	20% 30 10	of total cover:		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 10m x 10m )  1. Ilex coriacea  2. Ilex glabra  3. Vaccinium corymbosum	20% 30 10	of total cover:		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 10m x 10m )  1. Ilex coriacea  2. Ilex glabra  3. Vaccinium corymbosum	30			FACW species 50 x 2 = 100
Ilex coriacea     Ilex glabra     Vaccinium corymbosum	10	Yes		
Ilex glabra     Vaccinium corymbosum	10	Yes		FAC species 0 x 3 = 0
3. Vaccinium corymbosum			FACW	FACU species 20 x 4 = 80
	5	Yes	FACW	UPL species 1 x 5 = 5
4 Coronea ronena	-	No	FACW	Column Totals: 71 (A) 185 (B)
4. Serenoa repens	5	No	FACU	Prevalence Index = B/A = 2.61
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	50 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 25	20%	of total cover:	10	<u> </u>
Herb Stratum (Plot size: 10m x 10m )	•			
1. Andropogon glomeratus	5	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be
	15	Yes	FACU	present, unless disturbed or problematic.
3. Cladonia sp	1	No	UPL	Definitions of Four Vegetation Strata:
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of height.
7.				
8				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				3
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12	 21 =	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 11	20%	of total cover:	5	height.
Woody Vine Stratum (Plot size: 10m x 10m )				
2.				
3.				
4.				
5.				
·		Total Cover		Hydrophytic
50% of total cover:		of total cover:		Vegetation   Present?   Yes X   No
Remarks: (If observed, list morphological adaptations bel	•			

Planted Pinus elliottii makes up the canopy with 5 percent cover. Not included in calculations because it was planted. No woody vines observed in stratum.

Sampling Point:

W8-UD22

SOIL Sampling Point: W8-UD22

Profile Desc Depth	ription: (Describe t Matrix	o the dep		<b>ıment tl</b> x Featur		ator or co	nfirm the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7.5	10YR 2/1	50	,				Sandy	Remaining 50% unmasked 10YR 6/1
7.5-16	10YR 4/1	40	10YR 5/1	15	D	М	Sandy	Remaining 45% unmasked 10YR 6/1
						d Grains.		PL=Pore Lining, M=Matrix.
Histosol Histic Ep Black His Hydroger Stratified Organic I 5 cm Mu Muck Pre 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sur Polyvalue			1 cm M2 cm M2 cm M Coast I (outs	ndicators for Problematic Hydric Soils ³ :  1 cm Muck (A9) (LRR O)  2 cm Muck (A10) (LRR S)  Coast Prairie Redox (A16)    (outside MLRA 150A)  Reduced Vertic (F18)    (outside MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (LRR P, T)  Anomalous Bright Floodplain Soils (F20)    (MLRA 153B)  Red Parent Material (F21)  Very Shallow Dark Surface (F22)    (outside MLRA 138, 152A in FL, 154)  Barrier Islands Low Chroma Matrix (TS7)    (MLRA 153B, 153D)  Other (Explain in Remarks)				
Restrictive L	.ayer (if observed):		(MLRA 13	<u>,                                     </u>				
Type: _I	None							
Depth (in	iches):						Hydric Soil Prese	ent? Yes No X
U	terminated at 16 incl of recent soil alteration		o high water table.	Area wit	hin the p	olot is bedo	led and furrowed.	



W8_UD22



Project/Site: Trail Ridge South	City/County: Clay		Sampling Date: 01/30/19
Applicant/Owner: The Chemours Company FC, LL		State: FL	Sampling Point: W8_WD23
Investigator(s): N. Adams, B. McGee	Section, Township, Range:	187. 23	<u> </u>
Landform (hillside, terrace, etc.): hillside	Local relief (concave, convex,		Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 153A Lat.	<u> </u>	82°02'43.1"W	Datum: WGS 84
	29 33 2 1.9 IV LONGC		<del></del>
Soil Map Unit Name: Leon sand, 0-2 percent slopes		NWI classificat	
Are climatic / hydrologic conditions on the site typical for	· —		explain in Remarks.)
Are Vegetation, Soil, or Hydrology		Circumstances" present?	? Yes X No
Are Vegetation, Soil, or Hydrology	_ naturally problematic? (If needed, ex	plain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach site ma	ap showing sampling point locati	ons, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area		
Hydric Soil Present? Yes X		Yes X	No
Wetland Hydrology Present? Yes X	No		
Remarks:			
Rainfall conditions for Clay County were higher than no inches of rainfall was recorded at the site during the posome areas the furrows may intercept the seasonal higher than the bed. Beds and furrows in some areas have be cross slope, this can result in ponding of water within the control of the control	rior week. The site has been historically cor gh water table resulting in wetland vegetatio en constructed perpendicular to the slope po	nverted to pine plantation within the furrow, how	on and has beds/furrows. In vever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil Crack	
Surface Water (A1) Aqu	atic Fauna (B13)	Sparsely Vegetate	ed Concave Surface (B8)
X High Water Table (A2) Marl	Deposits (B15) (LRR U)	Drainage Patterns	s (B10)
X Saturation (A3) Hyd	rogen Sulfide Odor (C1)	Moss Trim Lines (	B16)
Water Marks (B1) Oxio	lized Rhizospheres on Living Roots (C3)	Dry-Season Water	r Table (C2)
Sediment Deposits (B2)	ence of Reduced Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	ent Iron Reduction in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin	Muck Surface (C7)	Geomorphic Posit	tion (D2)
Iron Deposits (B5) Othe	er (Explain in Remarks)	Shallow Aquitard (	(D3)
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test	(D5)
Water-Stained Leaves (B9)		X Sphagnum Moss (	(D8) <b>(LRR T,U)</b>
Field Observations:			
Surface Water Present? Yes No _X	Depth (inches):		
Water Table Present? Yes X No	Depth (inches): 5		
Saturation Present? Yes X No	Depth (inches): 0 Wetland	Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspections), if a	vailable:	
Demonstra			
Remarks: The natural landform has been converted for silvicultu	re practices. Approximately 50% sphaggum	moss identified within t	the plot
The natural landioni has been converted for silvicultu	re practices. Approximately 50 % spriagram	moss acrimica within t	ino piot.

_		Absolute	Dominant	Indicator	
	e Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1.					Number of Dominant Species
2.					That Are OBL, FACW, or FAC:3 (A)
3.					Total Number of Dominant
4.					Species Across All Strata: 4 (B)
5.					Percent of Dominant Species
6.					That Are OBL, FACW, or FAC:75.0%(A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
		:	=Total Cover		OBL species 3 x 1 = 3
	50% of total cover:	20%	of total cover:		FACW species 84 x 2 = 168
Sar	oling/Shrub Stratum (Plot size: 10m x 10m )				FAC species 9 x 3 = 27
1.	Gordonia lasianthus	5	No	FACW	FACU species18 x 4 =72
2.	Pinus palustris	5	No	FACU	UPL species 3 x 5 = 15
3.	Persea palustris	3	No	FACW	Column Totals: 117 (A) 285 (B)
4.	llex glabra	50	Yes	FACW	Prevalence Index = B/A = 2.44
5.	Vaccinium corymbosum	5	No	FACW	Hydrophytic Vegetation Indicators:
6.	Quercus nigra	1	No	FAC	1 - Rapid Test for Hydrophytic Vegetation
7.	Serenoa repens	3	No	FACU	X 2 - Dominance Test is >50%
8.	-				X 3 - Prevalence Index is ≤3.0 ¹
		72 :	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover: 36	20%	of total cover:	15	<u> </u>
Her	<u>b Stratum</u> (Plot size: 10m x 10m )				
1.	Hypericum tetrapetalum	3	No	OBL	The disease of budgies as it and weathered budgets on ways to
2.	Scleria baldwinii	10	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Pteridium aquilinum	8	Yes	FACU	Definitions of Four Vegetation Strata:
4.	Andropogon virginicus	5	No	FAC	
5.	Cladonia sp.	3	No	UPL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. 6.	Vaccinium myrsinites		No	FACU	height.
7.		10	Yes		
	llex glabra			FACW	Sapling/Shrub – Woody plants, excluding vines, less
8.	Dichanthelium dichotomum	3	No No	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.	Rhexia nashii	1	No	FACW	
10.					<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11.					of size, and woody plants less than 3.28 ft tall.
12.					
			=Total Cover		<b>Woody Vine</b> – All woody vines greater than 3.28 ft in
	50% of total cover: 23	<u>20%</u>	of total cover:	9	height.
Wo	ody Vine Stratum (Plot size: 10m x 10m)				
1.					
2.					
3.					
4.					
5.					Hydrophytic
		:	=Total Cover		Vegetation
	50% of total cover:	20%	of total cover:		Present? Yes X No No
Rer	marks: (If observed, list morphological adaptation	s below.)			
	canopy or woody vine stratum observed in plot.	,			
	·				

Sampling Point: __W8_WD23

SOIL Sampling Point: W8_WD23

		o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	<del></del> -	Color (moist)	x Featur %	Type ¹	Loc ²	Texture	Remarks			
0-5	10YR 2/1	50	Odd (mast)		Турс		Sandy	Remaining soil unmasked 10YR 6/1			
5-15	10YR 3/1	40	10YR 5/1	25				Remaining soil unmasked 10YR 6/1			
5-15	1018 3/1	40	1018 5/1		<u>D</u>	<u>M</u>	Sandy	Remaining soil unmasked 101R 6/1			
	ncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix.			
	ndicators: (Applicat	ole to all l						for Problematic Hydric Soils ³ :			
— Histosol (	•		Thin Dark Su	-				luck (A9) (LRR O)			
	pedon (A2)		Barrier Island			12)		luck (A10) <b>(LRR S)</b>			
Black His	` ,		(MLRA 15					Prairie Redox (A16)			
	Sulfide (A4)		Loamy Muck	•	` , '	.RR ()	•	side MLRA 150A)			
	Layers (A5)		Loamy Gleye					ed Vertic (F18)			
	Bodies (A6) (LRR, P,		Depleted Ma				•	side MLRA 150A, 150B)			
	cky Mineral (A7) <b>(LRI</b> esence (A8) <b>(LRR U)</b>	K P, I, U)	Redox Dark					ont Floodplain Soils (F19) (LRR P, T)			
	ck (A9) (LRR P, T)		Redox Depre		` '			lous Bright Floodplain Soils (F20)			
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>		(10)		•	arent Material (F21)			
	rk Surface (A12)	(/(11)	Depleted Oc		1) (MI RA	Δ 151)		hallow Dark Surface (F22)			
	airie Redox (A16) ( <b>M</b>	LRA 150 <i>A</i>						side MLRA 138, 152A in FL, 154)			
	ucky Mineral (S1) <b>(LF</b>		Umbric Surfa		•	, ,	,	r Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)	-,-,	Delta Ochric	-				RA 153B, 153D)			
Sandy Re			Reduced Ver	. , .		•	•	Explain in Remarks)			
X Stripped I			Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>		,			
Dark Surf	face (S7) <b>(LRR P, S</b> ,	T, U)	Anomalous E	Bright FI	oodplain	Soils (F2					
Polyvalue	Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)	)	³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow	/ Dark S	Surface (F	-22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.			
Restrictive L	ayer (if observed):										
-	None										
Depth (in	ches):						Hydric Soil Prese	ent? Yes <u>X</u> No			
Remarks:	torminated at 15 inch	ana dua ta	bigh water table. A	roo with	ain tha nI	at ia bada	dad and furraced. Na	avidance of recent cell alteration			
Soil boring is	terminated at 15 incr	ies due to	nign water table. <i>F</i>	area wili	nin the pi	ot is bead	ded and furrowed. No	evidence of recent soil alteration.			



W8_WD23



Project/Site: Trail Ridge South	City/Cou	nty: Clay	Sampling Date: 01/30/19
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_UD23
Investigator(s): N. Adams, B. McGee	Section, Tow	 nship, Range: 18, -7, 23	
Landform (hillside, terrace, etc.): hillside		cave, convex, none): none	Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15	·	Long: -82°02'29.7"W	Datum: WGS 84
	_		<del></del>
Soil Map Unit Name: Leon sand, 0-2 percent	·		ation: Upland
Are climatic / hydrologic conditions on the site		<del></del>	explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed?	Are "Normal Circumstances" preser	nt? Yes X No
Are Vegetation, Soil, or Hydrold	ogynaturally problematic?	(If needed, explain any answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampling բ	point locations, transects, i	mportant features, etc.
Hydrophytic Vegetation Present?	Yes No X Is the Sa	ampled Area	
, , , ,		Wetland? Yes	No X
	Yes X No		
Remarks:			
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has been asonal high water table resulting in we have been constructed perpendicular	historically converted to pine plantat tland vegetation within the furrow, ho to the slope per silviculture BMPs.	ion and has beds/furrows. In owever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cra	
Surface Water (A1)	Aquatic Fauna (B13)	——————————————————————————————————————	ited Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterr	ns (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)
Water Marks (B1)	Oxidized Rhizospheres on Living I	Roots (C3) Dry-Season Wat	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	s (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Sc	<u> </u>	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7)	1	— FAC-Neutral Tes	
Water-Stained Leaves (B9)		Sphagnum Moss	s (D8) <b>(LRR T,U)</b>
Water Table Present? Yes X Saturation Present? Yes X (includes capillary fringe)	No X Depth (inches): 9.5  No Depth (inches): 6	Wetland Hydrology Present?	Yes <u>X</u> No
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous ins	spections), if available:	
Remarks:			
The natural landform has been converted for	silviculture practices.		

Troo Stratum (Plot aiza: 10m v 10m )	Absolute % Cover	Dominant Species?	Indicator	Dominance Teet worksheet:
Tree Stratum (Plot size: 10m x 10m ) 1.	% Cover	Species?	Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant
4.				Species Across All Strata:4 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		=Total Cover		OBL species 0 x 1 = 0
50% of total cover:	20%	of total cover:		FACW species16 x 2 =32
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species23 x 3 =69
1. <u>Ilex coriacea</u>	5	No	<u>FACW</u>	FACU species 27 x 4 = 108
2. Morella cerifera	15	Yes	<u>FAC</u>	UPL species0 x 5 =0
3. Serenoa repens	20	Yes	FACU	Column Totals: 66 (A) 209 (B)
4. <u>Ilex glabra</u>	5	<u>No</u>	FACW	Prevalence Index = B/A = 3.17
5. <u>Lyonia ferruginea</u>	2	<u>No</u>	FACU	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 24	20%	of total cover:	10	
Herb Stratum (Plot size: 10m x 10m)				
1. Ilex coriacea	3	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2. Pteridium aquilinum	5	Yes	FACU	present, unless disturbed or problematic.
3. <u>Ilex glabra</u>	3	No	FACW	Definitions of Four Vegetation Strata:
4. Andropogon virginicus	5	Yes	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. <u>Dichanthelium dichotomum</u>	2	<u>No</u>	FAC	more in diameter at breast height (DBH), regardless of height.
6				Hoight.
7				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in height.
50% of total cover: 9	20%	of total cover:	4	neight.
Woody Vine Stratum (Plot size: 10m x 10m )				
1. Gelsemium sempervirens	1	<u>No</u>	FAC	
2				
3				
4				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover: 1	20%	of total cover:	1	Present?         Yes         No         X
Remarks: (If observed, list morphological adaptations	,			
Planted Pinus elliottii makes up the canopy with 8% c	over. Not in	cluded in calcu	llations beca	use it was planted.

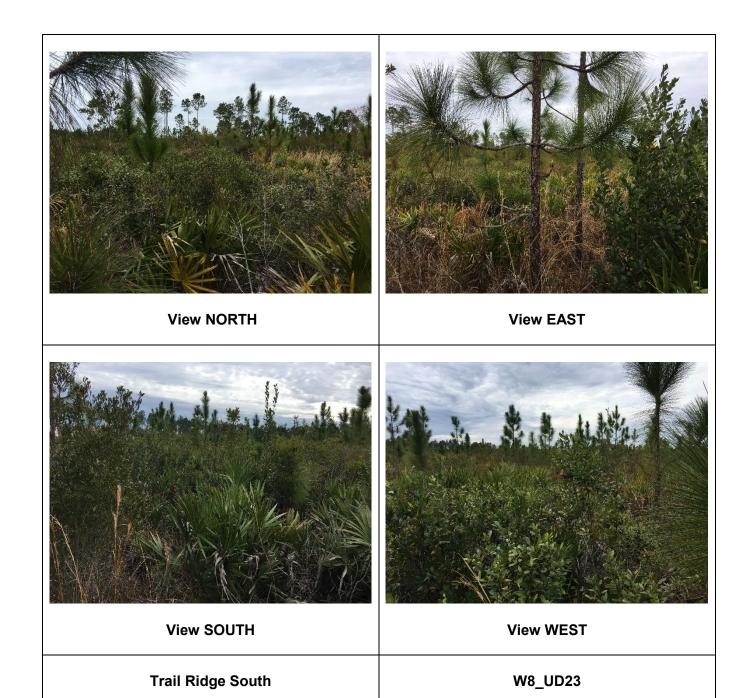
Sampling Point: W8_UD23

SOIL Sampling Point: W8_UD23

	ription: (Describe t	o the dept				itor or co	nfirm the absence	of indic	ators.)			
Depth	Matrix			Feature		. 2	<b>-</b> .		_			
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture			narks		
0-6	10YR 2/1	40					Sandy Remaining soil unmasked				10YR 6/1	
6-10	10YR 4/1						Sandy Remaining soil unmask		masked 1	10YR 6/1		
10-15	10YR 4/1	40	10YR 5/1	10	_ <u>D</u>	<u>M</u>	Sandy	Remaining soil unmasked 10YR 6/				
¹Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masl	ed Sand	Grains.	² Location:	PL=Pore	e Lining, M=I	Matrix.		
Hydric Soil I	ndicators: (Applicat	ole to all L	RRs, unless other	rwise n	oted.)				blematic Hy		s ³ :	
Histosol (			Thin Dark Su			S, T, U)	1 cm M	luck (A9	) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm M	luck (A1	0) (LRR S)			
Black His	stic (A3)		(MLRA 153	3B, 153	D)		Coast	Prairie R	Redox (A16)			
Hydroger	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) <b>(L</b>	RR O)	(outs	ide MLI	RA 150A)			
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduce	ed Vertic	(F18)			
Organic I	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(outs	ide MLI	RA 150A, 15	0B)		
5 cm Mu	cky Mineral (A7) <b>(LR</b> l	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floor	dplain Soils (	F19) <b>(LR</b> I	R P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Dar		` '		Anoma	lous Bri	ght Floodpla	n Soils (F	20)	
	ck (A9) <b>(LRR P, T)</b>		Redox Depre		(F8)		•	RA 153B	•			
	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>						terial (F21)			
	rk Surface (A12)		Depleted Och	-					ark Surface	` '		
	airie Redox (A16) (M				•							
	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)					
	eyed Matrix (S4)		Delta Ochric	. , .		•	•	RA 153B				
	edox (S5)		Reduced Ver	•			· —	∟xpıaın	in Remarks)			
	Matrix (S6)	T 11\	Piedmont Flo									
	face (S7) <b>(LRR P, S,</b> e Below Surface (S8)		Anomalous B	-				tors of h	ydrophytic ve	ogotation	and	
	6, T, U)		Very Shallow							•		
(LITTE	,, 1, 0)		(MLRA 138		,	,	wetland hydrology must be present, unless disturbed or problematic.					
Restrictive L	ayer (if observed):											
Type: 1	None											
Depth (in	ches):						Hydric Soil Prese	ent?	Yes	No	<u>X</u>	
Remarks: Soil boring is	terminated at 15 inch	nes due to	high water table. A	rea with	nin the pl	ot is bedd	ed and furrowed. No	evideno	ce of recent s	soil altera	tion.	
			g		и р.					7011 411014		



W8_UD23



Project/Site: Trail Ridge South	City/Co	unty: Clay	Sampling Date: 1/30/19			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8-WD24			
Investigator(s): B.McGee, N.Adams	Section, Tov	vnship, Range: 18, -7, 23				
Landform (hillside, terrace, etc.): hillside		ncave, convex, none): none	Slope (%): 0-2			
Subregion (LRR or MLRA): LRR T, MLRA 15	`	Long: -82° 02' 24.3"W	Datum: WGS 84			
Soil Map Unit Name: Allanton and Rutlege m			ation: Wetland			
Are climatic / hydrologic conditions on the site	<u> </u>		explain in Remarks.)			
• •	•					
Are Vegetation, Soil, or Hydrold		Are "Normal Circumstances" present				
Are Vegetation, Soil, or Hydrold	<del></del>	(If needed, explain any answers in R				
SUMMARY OF FINDINGS – Attach	site map showing sampling	point locations, transects, in	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes X No Is the S	Sampled Area				
		a Wetland? Yes X	No			
	Yes X No	<del></del>	<del></del>			
Remarks:	-					
Rainfall conditions for Clay County were high			•			
inches of rainfall was recorded at the site dur some areas the furrows may intercept the sea	0 1	, , ,				
on the bed. Beds and furrows in some areas	•	•				
cross slope, this can result in ponding of wate						
HYDROLOGY						
Wetland Hydrology Indicators:		·	(minimum of two required)			
Primary Indicators (minimum of one is require		Surface Soil Crad				
Surface Water (A1)	Aquatic Fauna (B13)	<del></del>				
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	X Moss Trim Lines				
Water Marks (B1)	Oxidized Rhizospheres on Living	· · · · — ·				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows				
Drift Deposits (B3)	Recent Iron Reduction in Tilled S	` ' <del></del>	e on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard				
Inundation Visible on Aerial Imagery (B7)	)	X FAC-Neutral Tes	` '			
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)			
Field Observations:	No. V. Donale (in alcos)					
	No X Depth (inches):	-				
	No Depth (inches):6	-   Wetlered Hedrele av Brees and 2	Vaa V Na			
Saturation Present? Yes X	No Depth (inches):1	- Wetland Hydrology Present?	YesX No			
(includes capillary fringe)  Describe Recorded Data (stream gauge, mor	pitaring well periol photos provious in	apportions) if available:				
Not available	illoring well, aeriai priotos, previous il	ispections), if available.				
Remarks:						
The natural landform has been converted for	silviculture practices. Sphagnum mo	ss 4% within plot.				

Tree Stratum (Plot size: 10m x 10m)	% Cover		Status	Dominance Test worksheet:
1.		Species?	<u> </u>	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3. 4.				Total Number of Dominant Species Across All Strata:3(B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
	:	=Total Cover		OBL species 15 x 1 = 15
50% of total cover:	20%	of total cover:		FACW species 27 x 2 = 54
Sapling/Shrub Stratum (Plot size: 10m x 10m )	<del></del> )	•		FAC species 24 x 3 = 72
1. Morella cerifera	20	Yes	FAC	FACU species 4 x 4 = 16
2. Magnolia virginiana	1	No	FACW	UPL species 0 x 5 = 0
3. Pinus elliottii	1	No	FACW	Column Totals: 70 (A) 157 (B)
1. Ilex coriacea	15	Yes	FACW	Prevalence Index = B/A = 2.24
5. Vaccinium corymbosum	3	No	FACW	Hydrophytic Vegetation Indicators:
5. Lyonia lucida	3	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
7. Serenoa repens	1	No	FACU	X 2 - Dominance Test is >50%
3.				X 3 - Prevalence Index is ≤3.0 ¹
	44	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2	22 20%	of total cover:	9	
Herb Stratum (Plot size: 10m x 10m )		•		
1. Woodwardia virginica	15	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Pteridium aquilinum	3	No	FACU	present, unless disturbed or problematic.
3. Vaccinium corymbosum	3	No	FAC	Definitions of Four Vegetation Strata:
1. Lyonia lucida	1	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Gordonia lasianthus	2	No	FACW	more in diameter at breast height (DBH), regardless of
S. Scleria baldwinii	1	No	FACW	height.
7.				
3.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				than 3 iii. DDH and greater than 3.20 it (1 iii) taii.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
	25 =	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 1		of total cover:	5	height.
Noody Vine Stratum (Plot size: 10m x 10m )	<u> </u>			
1. Smilax laurifolia	1	No	FACW	
2.				
3.				
1.				
5.				
·-	1 =	=Total Cover		Hydrophytic
		of total cover:	1	Vegetation Present? Yes X No
50% of total cover:				Fleselit:   tes /\   inc

Planted Pinus elliottii makes up the canopy with 2% cover. Not included in calculations because it was planted.

Sampling Point: W8-WD24

SOIL Sampling Point: W8-WD24

		o the dept				ator or co	onfirm the absence	of indicators.)			
Depth	Matrix			Feature		1 2	Tarduna	Demonto			
(inches)	Color (moist)		Color (moist)	<u></u> %	Type ¹	Loc ²	Texture	Remarks  Remarks  Remarks			
0-4	10YR 2/1		10VD 5/1				Sandy	Remaining 50% unmasked 10YR 6/1			
4-7	10YR 2/1		10YR 5/1	10	<u>D</u>	M	Sandy	Remaining 40% unmasked 10YR 6/1			
7-16	10YR 3/1		10YR 5/1		<u>D</u>	M	Sandy	Remaining 30% unmasked 10YR 6/1			
¹Type: C=Co	ncentration, D=Deple	======================================	Reduced Matrix, M	S=Masl	ed Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil Ir	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators for Problematic Hydric Soils ³ :										
Histosol (	A1)		Thin Dark Su	rface (S	9) <b>(LRR</b>	S, T, U)	1 cm N	Muck (A9) <b>(LRR O)</b>			
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm N	Muck (A10) <b>(LRR S)</b>			
Black His	tic (A3)		(MLRA 153	3B, 153	D)		Coast	Prairie Redox (A16)			
Hydrogen	Sulfide (A4)		Loamy Muck	y Minera	al (F1) <b>(L</b>	RR O)	(out	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduc	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(out	side MLRA 150A, 150B)			
5 cm Muc	ky Mineral (A7) <b>(LRI</b>	R P, T, U)	Redox Dark S	Surface	(F6)		Piedm	ont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	sence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	alous Bright Floodplain Soils (F20)			
1 cm Muc	k (A9) <b>(LRR P, T)</b>		Redox Depre	ssions (	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) <b>(L</b>				Red Parent Material (F21)				
Thick Dar	k Surface (A12)		Depleted Och	ric (F1	1) <b>(MLR</b> /	A 151)	Very Shallow Dark Surface (F22)				
	airie Redox (A16) ( <b>M</b>				•		D, P, T) (outside MLRA 138, 152A in FL, 154)				
	ucky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surfa	ce (F13	) (LRR P	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
	eyed Matrix (S4)		Delta Ochric	. , .		•	(MLRA 153B, 153D)				
Sandy Re				Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)							
X Stripped I	` ,			edmont Floodplain Soils (F19) (MLRA 149A)							
	ace (S7) <b>(LRR P, S,</b>		Anomalous B	-	•	•	,				
	Below Surface (S8)		(MLRA 149				³ Indicators of hydrophytic vegetation and				
(LRR S	i, T, U)		Very Shallow		,	,	wetland hydrology must be present, unless disturbed or problematic.				
Poetrictive I	ayer (if observed):		(MLRA 138	5, 152A	IN FL, 1	54)	unie	ss disturbed or problematic.			
	lone										
Depth (in	ches):						Hydric Soil Present? Yes X No				
Remarks:											
	terminated at 16 inch	nes due to	high water table.								
	of recent soil alteration		· ·								



W8_WD24



Project/Site: Trail Ridge South		City/County: Clay		Sampling Date: 1/30/19			
Applicant/Owner: The Chemours Compan	y FC, LLC		State: FL	Sampling Point: W8-UD24			
Investigator(s): B.McGee, N.Adams	Sect	ion, Township, Range:	 187. 23				
Landform (hillside, terrace, etc.): hillside		elief (concave, convex, r		Slope (%): 0-2			
Subregion (LRR or MLRA): LRR T, MLRA 15:		•	32° 02' 24.8"W	Datum: WGS 84			
		Long. <u>-o</u>		<del></del>			
Soil Map Unit Name: Leon fine sand, 0-2 perd	·		NWI classification				
Are climatic / hydrologic conditions on the site		Yes <u>X</u>		explain in Remarks.)			
Are Vegetation, Soil, or Hydrold			ircumstances" present	? Yes X No			
Are Vegetation, Soil, or Hydrold	ogynaturally problema	tic? (If needed, exp	olain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ons, transects, im	portant features, etc.			
Hydrophytic Vegetation Present?	res X No	Is the Sampled Area					
		within a Wetland?	Yes	No X			
	/es X No						
Remarks:							
Rainfall conditions for Clay County were high			•				
inches of rainfall was recorded at the site duri some areas the furrows may intercept the sea	0 1	,					
on the bed. Beds and furrows in some areas	•	0	•	' '			
cross slope, this can result in ponding of wate							
HYDROLOGY							
			Casandami Indiastara	(minimum of two required)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is require	ad: check all that annly)		Surface Soil Crac	(minimum of two required)			
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
X High Water Table (A2)	Marl Deposits (B15) (LRI	· · · · · · · · · · · · · · · · ·					
X Saturation (A3)	Hydrogen Sulfide Odor (						
Water Marks (B1)	Oxidized Rhizospheres o	•	Dry-Season Wate	•			
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows				
Drift Deposits (B3)	Recent Iron Reduction in		<del></del>	on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)						
Iron Deposits (B5)	Other (Explain in Remark	(s)	Shallow Aquitard	` '			
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)			X Sphagnum Moss	(D8) <b>(LRR T,U)</b>			
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes X	No Depth (inches):	8					
Saturation Present? Yes X	No Depth (inches):	1 Wetland H	Hydrology Present?	Yes X No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, pre	evious inspections), if av	/ailable:				
Not available							
Remarks:							

<b>VEGETATION (Four Strata)</b> – Use scientif	ic names o	of plants.		Sampling Point:	W8-UD24
Tree Stratum (Plot size: 10m x 10m )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	3 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	66.7% (A/B)
7.				Prevalence Index worksheet:	
8.				Total % Cover of:	fultiply by:
		=Total Cover		OBL species 0 x 1 =	0
50% of total cover:	20%	of total cover:		FACW species 30 x 2 =	60
Sapling/Shrub Stratum (Plot size: 10m x 10m )				FAC species 21 x 3 =	
1. Serenoa repens	50	Yes	FACU	FACU species 52 x 4 =	
2. Ilex glabra	3	No	FACW	UPL species $0 \times 5 =$	
3. Persea palustris	1	No	FACW	Column Totals: 103 (A)	331 (B)
4. Gordonia lasianthus	1	No	FACW	Prevalence Index = B/A =	3.21
5. Lyonia ferruginea	2	No	FACU	Hydrophytic Vegetation Indicators	
<u> </u>	5	No	FACW	1 - Rapid Test for Hydrophytic Vo	
		INU	<u> FACW</u>	X 2 - Dominance Test is >50%	egetation
7.				I <del></del>	
8				3 - Prevalence Index is ≤3.0 ¹	1
		=Total Cover		Problematic Hydrophytic Vegeta	tion' (Explain)
50% of total cover: 3	1 20%	of total cover:	13		
Herb Stratum (Plot size: 10m x 10m)					
1. Ilex coriacea	5	No	FACW	¹ Indicators of hydric soil and wetland	hydrology must be
2. <u>Ilex glabra</u>	15	Yes	FACW	present, unless disturbed or problem	atic.
3. Dichanthelium dichotomum	20	Yes	FAC	Definitions of Four Vegetation Stra	ata:
4. Aristida spiciformis	1	No	FAC	Tree – Woody plants, excluding vine	s, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DI	
6.				height.	
7.					
8.				Sapling/Shrub – Woody plants, excl	
9.				than 3 in. DBH and greater than 3.28	ft (1 m) tall.
40					
10.				Herb – All herbaceous (non-woody) լ	
11.				of size, and woody plants less than 3	3.28 ft tall.
12					
		=Total Cover		Woody Vine – All woody vines great	er than 3.28 ft in
50% of total cover: 2°	1 20%	of total cover:	9	height.	
Woody Vine Stratum (Plot size: 10m x 10m)					
1					
2.					
3.					
4.					
5.				Hudus whidi-	
		=Total Cover		Hydrophytic Vegetation	
50% of total cover:		of total cover:		Present? Yes X No	)
				1 · · · · · · · · · · · · · · · · · · ·	
Remarks: (If observed, list morphological adaptation	,				
No canopy in stratum. No woody vines observed in s	ıı aıum.				

SOIL Sampling Point: W8-UD24

	ription: (Describe	to the dept				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix	<u></u> %		Feature %		Loc ²	Toytura	r	Domarka	
(inches) 0-5	Color (moist) 10YR 2/1	50	Color (moist)	70	Type ¹	Loc	Texture Sandy		Remarks % unmasked 10YR 6/1	
5-7	10YR 3/1	50					Sandy		% unmasked 10YR 6/1	
7-13	10YR 3/1		10YR 6/1			_M_ 	Sandy	Remaining 509	% unmasked 10YR 5/1	
1= 0.0							2, ,,			
	oncentration, D=Depl					d Grains.		PL=Pore Lining,		
Hyaric Soil i Histosol	Indicators: (Applica	DIE TO AII L				e T II)		for Problematic	•	
	oipedon (A2)		Thin Dark Su Barrier Island					Muck (A9) <b>(LRR C</b> Muck (A10) <b>(LRR</b>		
Black His			(MLRA 15			12)		Prairie Redox (A	•	
	n Sulfide (A4)		Loamy Muck			RR (I)		side MLRA 150A	,	
	Layers (A5)		Loamy Gleye	•	. , .		•	ced Vertic (F18)	,	
	Bodies (A6) (LRR, P	, T, U)	Depleted Mat					side MLRA 150A	, 150B)	
I —	cky Mineral (A7) (LR		Redox Dark S	Surface	(F6)		Piedm	ont Floodplain Sc	oils (F19) <b>(LRR P, T)</b>	
Muck Pre	esence (A8) (LRR U)	)	Depleted Dar	k Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)			
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions (	(F8)		(ML	(MLRA 153B)		
Depleted	l Below Dark Surface	(A11)	Marl (F10) <b>(L</b>	RR U)			Red P	Red Parent Material (F21)		
Thick Da	ark Surface (A12)		Depleted Och				<u> </u>	Shallow Dark Surf	,	
	airie Redox (A16) (M		<u> </u>					side MLRA 138,	•	
	lucky Mineral (S1) <b>(L</b>	RR O, S)	Umbric Surfa						oma Matrix (TS7)	
	leyed Matrix (S4)		Delta Ochric				•	RA 153B, 153D)		
	edox (S5)		Reduced Ver	•	, ,		· · · · · · · · · · · · · · · · · · ·			
	Matrix (S6) face (S7) (LRR P, S	T II)	Piedmont Flo	•	,	, ,	•			
	e Below Surface (S8		(MLRA 149	-				ators of hydronhyt	ic vegetation and	
	S, T, U)	,	Very Shallow				wetland hydrology must be present,			
(=::::	o, ., o,		(MLRA 138				unless disturbed or problematic.			
	_ayer (if observed):									
^ -	None							.a v	<b>N</b> V	
Depth (ir	ncnes):						Hydric Soil Pres	sent? Yes	No X	
	terminated at 13 inc of recent soil alterati		high water table.							



W8_UD24



Project/Site: Trail Ridge South	City/Coun	ty: <u>Clay</u>	Sampling Date: 01/30/19		
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8_WD25		
Investigator(s): N. Adams, B. McGee	Section, Towns	 ship, Range: 18,-7,23	<u>-</u>		
Landform (hillside, terrace, etc.): depression		ave, convex, none): concave	Slope (%): 0		
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82°02'33.9"W	Datum: WGS 84		
Soil Map Unit Name: Pottsburg fine sand	20 00 00000	NWI classifica			
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	explain in Remarks.)		
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? A	Are "Normal Circumstances" present	? Yes X No		
Are Vegetation, Soil, or Hydrok	· · · · · · · · · · · · · · · · · · ·	If needed, explain any answers in R			
SUMMARY OF FINDINGS – Attach					
Hydrophytic Vegetation Present?	Yes X No Is the Sar	mpled Area			
	Yes X No within a V		No		
	Yes X No				
Remarks:					
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ring the prior week. The site has been h asonal high water table resulting in wetl s have been constructed perpendicular to	istorically converted to pine plantation and vegetation within the furrow, how the slope per silviculture BMPs. S	on and has beds/furrows. In wever upland plants remain		
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Crac			
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)		
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern			
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines			
Water Marks (B1)	Oxidized Rhizospheres on Living R				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows			
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soil	<del></del>	e on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Posi	ition (D2)		
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	(D3)		
Inundation Visible on Aerial Imagery (B7	<del></del> )	X FAC-Neutral Tes	t (D5)		
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) <b>(LRR T,U)</b>		
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes X	No Depth (inches): 4.5				
Saturation Present? Yes X	No Depth (inches):0	Wetland Hydrology Present?	Yes <u>X</u> No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous insp	pections), if available:			
Remarks: The natural landform has been converted for	aibiaultura praetiaga 20/ aphaggum ma	and language within plat			
The natural landform has been converted for	silviculture practices. 5% spriagrium mo	oss located within plot.			

		Absolute	Dominant	Indicator	
Tre	e Stratum (Plot size: 10m x 10m )	% Cover	Species?	Status	Dominance Test worksheet:
1. 2.					Number of Dominant Species That Are OBL, FACW, or FAC:6(A)
3. 4.					Total Number of Dominant Species Across All Strata: 6 (B)
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
			=Total Cover		OBL species 0 x1 = 0
	50% of total cover:	20%	of total cover:		FACW species 89 x 2 = 178
Sar	oling/Shrub Stratum (Plot size: 10m x 10m )				FAC species 0 x 3 = 0
1.	Gordonia lasianthus	40	Yes	FACW	FACU species 10 x 4 = 40
2.	Persea palustris	15	Yes	FACW	UPL species 0 x 5 = 0
3.	llex coriacea	3	No	FACW	Column Totals: 99 (A) 218 (B)
4.	Lyonia lucida	1	No	FACW	Prevalence Index = B/A = 2.20
5.	llex glabra	5	No	FACW	Hydrophytic Vegetation Indicators:
6.	Vaccinium corymbosum	3	No	FACW	X 1 - Rapid Test for Hydrophytic Vegetation
7.	Lyonia ferruginea	1	No	FACU	X 2 - Dominance Test is >50%
8.	Serenoa repens	5	No	FACU	X 3 - Prevalence Index is ≤3.0¹
-			=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover: 3		of total cover:	15	(Explain)
Her	b Stratum (Plot size: 10m x 10m )	2070	or total cover.		
1.	Pteridium aquilinum	3	No	FACU	1
2.	Vaccinium corymbosum	5	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	llex glabra	5	Yes	FACW	Definitions of Four Vegetation Strata:
4.	Polygala lutea	1	No	FACW	
<b>-</b> . 5.	Gordonia lasianthus		Yes	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. 6.	Persea palustris	5	Yes	FACW	height.
o. 7.	Pinus elliottii	1	No	FACW	
7. 8.		1			Sapling/Shrub – Woody plants, excluding vines, less
o. 9.	Pinus palustris		<u>No</u>	<u>FACU</u>	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.					<b>Herb</b> – All herbaceous (non-woody) plants, regardless
11.					of size, and woody plants less than 3.28 ft tall.
12.					Was de Missa. All sus a basilines amondo de la COO fi in
			=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in height.
	50% of total cover: 13	3 20%	of total cover:	6	noight.
	ody Vine Stratum (Plot size: 10m x 10m )				
1.					
2.					
3.					
4.					
5.					Hydrophytic
			=Total Cover		Vegetation
	50% of total cover:	20%	of total cover:		Present?
Rer	narks: (If observed, list morphological adaptation	ns below.)			

Planted Pinus elliottii makes up the canopy with 5% cover. Not included in calculations because it was planted. No woody vine stratum observed in plot.

Sampling Point: W8_WD25

SOIL Sampling Point: W8_WD25

		o the dep				ator or co	onfirm the absence	of indicators.)			
Depth	Matrix			Feature			<b>-</b> .	5			
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks			
0-4	10YR 2/1	80					Sandy	Remaining soil unmasked 10YR 6/1			
4-7	10YR 3/1	50	10YR 5/1	5	<u>D</u>	<u>M</u>	Sandy	Remaining soil unmasked 10YR 6/1			
7-14	10YR 4/1		10YR 5/1	15	D	<u>M</u>	Sandy	Remaining soil unmasked 10YR 6/1			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Mask	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil Ir	Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Indicators for Problematic Hydric Soils ³ :										
Histosol (	A1)		Thin Dark Su	rface (S	9) <b>(LRR</b>	S, T, U)	1 cm M	fluck (A9) <b>(LRR O)</b>			
Histic Epi	pedon (A2)		Barrier Island	s 1 cm	Muck (S	12)	2 cm M	fluck (A10) <b>(LRR S)</b>			
Black His	tic (A3)		(MLRA 153	B, 153I	D)		Coast I	Prairie Redox (A16)			
Hydrogen	Sulfide (A4)		Loamy Mucky	/ Minera	al (F1) <b>(L</b>	RR O)	— (outs	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduce	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	rix (F3)			— (outs	side MLRA 150A, 150B)			
5 cm Muc	cky Mineral (A7) <b>(LRI</b>	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfac	ce (F7)		Anoma	llous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre	ssions (	F8)		(MLRA 153B)				
 Depleted	Below Dark Surface	(A11)	 Marl (F10) <b>(L</b>	RR U)			Red Parent Material (F21)				
Thick Dar	rk Surface (A12)		Depleted Och	ric (F11	1) <b>(MLR</b> /	A 151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) ( <b>M</b>	LRA 150A	Iron-Mangane	ese Mas	ses (F12	2) <b>(LRR C</b>	D, P, T) (outside MLRA 138, 152A in FL, 154)				
Sandy Mu	ucky Mineral (S1) <b>(LF</b>	RR O, S)	Umbric Surfa	ce (F13	) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) <b>(N</b>	ILRA 15	1)	(MLRA 153B, 153D)				
Sandy Re	edox (S5)		Reduced Ver	tic (F18	) (MLRA	150A, 15	50B) Other (Explain in Remarks)				
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>	· · · · · · · · · · · · · · · · · · ·				
X Dark Surf	face (S7) <b>(LRR P, S,</b>	T, U)	Anomalous B	right Flo	oodplain	Soils (F2	0)				
X Polyvalue	e Below Surface (S8)		(MLRA 149	A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S				Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: <u>N</u> Depth (in	None						Hydric Soil Prese	ont? Voc V No			
• •							Hydric Soil Prese	ent? Yes X No			
Remarks: Soil boring is	terminated at 14 inch	nes due to	high water table. N	o evide	nce of re	cent soil	alteration.				



W8_WD25



Project/Site: Trail Ridge South	City/County: Clay	Sampling Date: 01/30/19
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W8-UD25
Investigator(s): N. Adams, B. McGee	Section, Township, Ran	ge: 18,-7,23
Landform (hillside, terrace, etc.): hillside	Local relief (concave, conv	ex, none): none Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15		g: -82°02'34.1"W Datum: WGS 84
Soil Map Unit Name: Mandarin fine sand, 0-2	<del></del>	NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	
Are Vegetation, Soil, or Hydrok		al Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrok	· · · · · · · · · · · · · · · · · · ·	, explain any answers in Remarks.)
	<del></del>	ations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes X No Is the Sampled Are	22
	Yes No X within a Wetland?	Yes No X_
·	Yes X No	
Remarks:	_ <del></del> _	
inches of rainfall was recorded at the site dur some areas the furrows may intercept the se on the bed. Beds and furrows in some areas	ing the prior week. The site has been historically asonal high water table resulting in wetland veget	bove average for the prior 12 months. An average 1.86 converted to pine plantation and has beds/furrows. In action within the furrow, however upland plants remain the per silviculture BMPs. Since furrows are constructed is.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7	)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes X	No	
Saturation Present? Yes X	No Depth (inches):6 Wetla	nd Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections),	if available:
Remarks: The natural landform has been converted for plot.	silviculture practices. Sphagnum moss was locat	ed at the bottom of the furrows and covered 2% of the

<u>Tree Stratum</u> (Plot size: 10m x 10m )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 00101	Орссісз	Otatus	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				
4.				Total Number of Dominant Species Across All Strata: 3 (B)
5.				
·				Percent of Dominant Species That Are ORL FACING or FACING 66 70/ (A/R)
6.				That Are OBL, FACW, or FAC: 66.7% (A/B)  Prevalence Index worksheet:
7				
8		T-4-1 0		Total % Cover of: Multiply by:
		=Total Cover		OBL species 0 x1 = 0
50% of total cover:	20%	of total cover:		FACW species 100 x 2 = 200
Sapling/Shrub Stratum (Plot size: 10m x 10m )			O	FAC species1 x 3 = 3
1. Gordonia lasianthus	3	<u>No</u>	FACW	FACU species 38 x 4 = 152
2. Persea palustris	1	<u>No</u>	FACW	UPL species0 x 5 =0
3. Serenoa repens	25	Yes	FACU	Column Totals: 139 (A) 355 (B)
4. Vaccinium arboreum	3	No	FACU	Prevalence Index = B/A = 2.55
5. <u>Ilex glabra</u>	3	No	FACW	Hydrophytic Vegetation Indicators:
6. <u>Ilex coriacea</u>	3	No	FACW	1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
_	38	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:19	20%	of total cover:	8	
Herb Stratum (Plot size: 10m x 10m )				
1. Ilex glabra	45	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2. Ilex coriacea	45	Yes	FACW	present, unless disturbed or problematic.
3. Pteridium aquilinum	10	No	FACU	Definitions of Four Vegetation Strata:
4. Dichanthelium dichotomum	1	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				
8.				Sapling/Shrub – Woody plants, excluding vines, less
9.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
	101	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 51		of total cover:	21	height.
Woody Vine Stratum (Plot size: 10m x 10m )		or total cover.		
2				
3				
4		-		
5				Hydrophytic
<u>,</u>		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present?
Remarks: (If observed, list morphological adaptations	below.)			
No canopy or woody vine stratum present within plot.				

Sampling Point:

W8-UD25

SOIL Sampling Point: W8-UD25

		o the dep				ator or co	onfirm the absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	<del></del> -		Feature %		Loc ²	Toytura		Domarko
(inches) 0-5	Color (moist) 10YR 3/1	45	Color (moist)	70	Type ¹	LOC	Texture Sandy	Remaining so	Remarks  pil unmasked 10YR 6/1
5-8	10YR 3/1	45	10YR 5/1	<del></del> 5			Sandy		oil unmasked 10YR 6/1
8-16	10YR 3/1		10YR 5/1		_ <u>D</u>	<u>M</u>	Sandy	Remaining so	oil unmasked 10YR 6/1
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	—— S=Masł	ed Sand	d Grains.	² Location:	PL=Pore Lining	, M=Matrix.
	ndicators: (Applicat								c Hydric Soils ³ :
Histosol (			Thin Dark Su			S, T, U)	1 cm M	luck (A9) (LRR	O)
Histic Epi	ipedon (A2)		Barrier Island	s 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRF	₹ S)
Black His	stic (A3)		(MLRA 153	B, 153	D)		Coast I	Prairie Redox (A	(16)
— Hydroger	Sulfide (A4)		Loamy Mucky			RR O)		side MLRA 150	·
	Layers (A5)		Loamy Gleye	d Matrix	(F2)	,	Reduce	ed Vertic (F18)	
	Bodies (A6) (LRR, P,	T, U)	Depleted Mat					side MLRA 150	A, 150B)
	cky Mineral (A7) <b>(LR</b>		Redox Dark S				Piedmo	ont Floodplain S	oils (F19) <b>(LRR P, T)</b>
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)				odplain Soils (F20)
	ck (A9) (LRR P, T)		Redox Depre	ssions (	(F8)			RA 153B)	. , ,
 Depleted	Below Dark Surface	(A11)	 Marl (F10) <b>(L</b>	RR U)			Red Pa	arent Material (F	21)
Thick Da	rk Surface (A12)		Depleted Och	ric (F1	1) <b>(MLR</b> A	A 151)	Very S	hallow Dark Sur	face (F22)
Coast Pra	airie Redox (A16) ( <b>M</b>	LRA 150A	Iron-Mangane	ese Mas	ses (F12	2) <b>(LRR C</b>	D, P, T) (outs	side MLRA 138,	, 152A in FL, 154)
Sandy Mu	ucky Mineral (S1) <b>(LI</b>	RR O, S)	Umbric Surfa	_ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `			Islands Low Ch	roma Matrix (TS7)	
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) <b>(N</b>	ILRA 15	1)	(MLF	RA 153B, 153D)	
Sandy Re	edox (S5)		Reduced Ver	tic (F18	) (MLRA	150A, 15	50B) Other (	Explain in Rema	arks)
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) <b>(MLR</b>	A 149A)		
Dark Surf	face (S7) <b>(LRR P, S,</b>	T, U)	Anomalous B	right Flo	oodplain	Soils (F2	0)		
Polyvalue	Below Surface (S8)		(MLRA 149	A, 1530	C, 153D)		³ Indica	tors of hydrophy	tic vegetation and
(LRR S			Very Shallow				wetland hydrology must be present,		
			(MLRA 138	3, 152A	in FL, 1	54)	unle	ss disturbed or	problematic.
	ayer (if observed):								
· · -	None								
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No <u>X</u>
Remarks: Soil boring is	terminated at 16 incl	nes due to	high water table. N	o evide	nce of re	cent soil	alteration.		



W8_UD25



Project/Site: Trail Ridge South		City/County: Bradford		Sampling Date: 12/6/18
Applicant/Owner: The Chemours Compar	ny FC, LLC		State: FL	Sampling Point: W8B_WD1
Investigator(s): D. Sank, N. Adams	Secti	ion, Township, Range:	24, -7, 22	
Landform (hillside, terrace, etc.): depression	Local re	elief (concave, convex, n	none): concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15	•	•	2° 02' 55.54"	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0-2 percent			NWI classificat	<del></del>
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrole	•		rcumstances" present	
Are Vegetation, Soil, or Hydrole			lain any answers in Re	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINDINGS – Attach	' <u></u>		-	•
Hydrophytic Vogototion Procent?	You Y No I	is the Sampled Area		
, , ,		s the Sampled Area within a Wetland?	Yes X	No
'	Yes X No	William a Froncisco	100	
Remarks:	<u> </u>			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of wat	ring the prior week. The site hat asonal high water table resutir ave been constructed perpendi	as been historically conving in wetland vegetation cular to the slope per sil	erted to pine plantation within the furrow, how	n and has beds/furrows. In rever upland plants remain on
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracl	
Surface Water (A1)	Aquatic Fauna (B13)	-	Sparsely Vegetate	ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRF	R U)	Drainage Patterns	(B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C	C1)	Moss Trim Lines (	B16)
Water Marks (B1)	Oxidized Rhizospheres or	n Living Roots (C3)	Dry-Season Wate	r Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron	- · · · · · ·	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	-	X Geomorphic Posit	
Iron Deposits (B5)	X Other (Explain in Remark	s)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7	)	-	X FAC-Neutral Test	` '
Water-Stained Leaves (B9)			X Sphagnum Moss	(D8) <b>(LRR T,U)</b>
Field Observations:	_	_		_
Surface Water Present? Yes	No X Depth (inches):	I		
Water Table Present? Yes X	No Depth (inches): _	15		
Saturation Present? Yes X	No Depth (inches): _	10 Wetland H	lydrology Present?	Yes <u>X</u> No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, more Not available	nitoring well, aerial photos, pre	evious inspections), if av	ailable:	
Demarks				
Remarks: The natural landform has been converted for 12 inches of the soil profile. Sphagnum moss		<u> </u>	et season the water tal	ole is present within the top

ree Stratum (Plot size: 10m x 10m )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Gordonia lasianthus	10	Yes	FACW	
2		100	171011	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
				```
· I.				Total Number of Dominant Species Across All Strata: 6 (B)
·				···
).).				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
······································		·		Prevalence Index worksheet:
· L				Total % Cover of: Multiply by:
· 	10	=Total Cover		OBL species 10 x 1 = 10
50% of total cover: 5		of total cover:	2	FACW species 33 x 2 = 66
Sapling/Shrub Stratum (Plot size: 10m x 10m)		or total cover.		FAC species 18 x 3 = 54
	3	Yes	FACW	FACU species $0 \times 4 = 0$
. Vaccinium corymbosum . Morella cerifera	1	No		
			FAC	
lex glabra	10	Yes	FACW	
·				Prevalence Index = B/A = 2.13
·				Hydrophytic Vegetation Indicators:
·				1 - Rapid Test for Hydrophytic Vegetation
·				X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.0 ¹
	14	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 7		of total cover:	3	
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus			3 FAC	
lerb Stratum (Plot size: 10m x 10m) . Andropogon virginicus	20%	of total cover: Yes Yes		
lerb Stratum (Plot size: 10m x 10m) . Andropogon virginicus . Osmundastrum cinnamomeum	20% 15	of total cover:	FAC	¹ Indicators of hydric soil and wetland hydrology must b
lerb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Woodwardia virginica	20% 15 8	of total cover: Yes Yes	FAC FACW	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii	20% 15 8 8	of total cover: Yes Yes Yes Yes	FAC FACW OBL	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
lerb Stratum (Plot size: 10m x 10m) . Andropogon virginicus . Osmundastrum cinnamomeum . Woodwardia virginica . Scleria baldwinii . Xyris elliottii	20% 15 8 8 2	Yes Yes Yes No	FAC FACW OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
lerb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii	20% 15 8 8 2	Yes Yes Yes No	FAC FACW OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
lerb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii	20% 15 8 8 2	Yes Yes Yes No	FAC FACW OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
lerb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii	20% 15 8 8 2	Yes Yes Yes No	FAC FACW OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
lerb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii 0.	20% 15 8 8 2	Yes Yes Yes No	FAC FACW OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Somundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii 0.	20% 15 8 8 2	Yes Yes Yes No	FAC FACW OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Somundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii 0.	20% 15 8 8 2 2	Yes Yes Yes No	FAC FACW OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Somundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii 0.	20% 15 8 8 2 2	Yes Yes Yes No No Total Cover	FAC FACW OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Cosmundastrum cinnamomeum Coscleria baldwinii Xyris elliottii Cosmundastrum cinnamomeum Scleria baldwinii August elliottii Cosmundastrum cinnamomeum Scleria baldwinii Scleria baldwinii	20% 15 8 8 2 2	Yes Yes Yes No No	FAC FACW OBL FACW OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Noodwardia virginica Scleria baldwinii Xyris elliottii 0. 1. 2. 50% of total cover: 18	20% 15 8 8 2 2	Yes Yes Yes No No Total Cover	FAC FACW OBL FACW OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Scleria baldwinii Xyris elliottii 0. 1. 2. 50% of total cover: 18 Voody Vine Stratum (Plot size: 10m x 10m) Smilax bona-nox	20% 15 8 8 2 2	Yes Yes Yes No No Total Cover of total cover:	FAC FACW OBL FACW OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Somundastrum cinnamomeum Scleria baldwinii Xyris elliottii 1. 2. 50% of total cover: 18 Voody Vine Stratum (Plot size: 10m x 10m) Smilax bona-nox Vitis rotundifolia	20% 15 8 8 2 2 35 20%	Yes Yes Yes No No Total Cover of total cover:	FAC FACW OBL FACW OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Serial Stratum (Plot size:	20% 15 8 8 2 2 35 20%	Yes Yes Yes No No Total Cover of total cover:	FAC FACW OBL FACW OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
lerb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Woodwardia virginica Scleria baldwinii Xyris elliottii 0. 1. 2. 50% of total cover: 18 Woody Vine Stratum (Plot size: 10m x 10m) Smilax bona-nox Vitis rotundifolia	20% 15 8 8 2 2 35 20%	Yes Yes Yes No No Total Cover of total cover:	FAC FACW OBL FACW OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Osmundastrum cinnamomeum Elementaria virginica Scleria baldwinii Xyris elliottii Oution of total cover: 18 Voody Vine Stratum (Plot size: 10m x 10m) Smilax bona-nox Vitis rotundifolia	20% 15 8 8 2 2 35 20% 1 1	Yes Yes Yes No No No Total Cover of total cover:	FAC FACW OBL FACW OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
Herb Stratum (Plot size: 10m x 10m) Andropogon virginicus Somundastrum cinnamomeum Soleria baldwinii Xyris elliottii 0. 1. 2. 50% of total cover: 18 Voody Vine Stratum (Plot size: 10m x 10m) Smilax bona-nox	20% 15 8 8 2 2 35 20% 1 1	Yes Yes Yes No No Total Cover of total cover:	FAC FACW OBL FACW OBL	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.

SOIL Sampling Point: W8B_WD1

	ription: (Describe t	o the dept				ator or co	nfirm the absence	of indicators.)		
Depth	Matrix			(Feature						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-2	10YR 4/1	50					Sandy	Remaining soil unmasked 10YR 6/1		
2-4	10YR 3/1	90					Sandy	Remaining soil unmasked 10YR 6/1		
4-7	10YR 4/1	60	10YR 5/1	10	<u>D</u>	<u>M</u>	Sandy	Remaining soil unmasked 10YR 6/1		
7-10	10YR 3/2	90					Sandy	Remaining soil unmasked 10YR 6/1		
10-16	10YR 2/2	100					Sandy			
	ncentration, D=Depl					d Grains.		PL=Pore Lining, M=Matrix.		
	ndicators: (Applical	ble to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol ((A1)		X Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm N	fluck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	fluck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	.RR O)	(outs	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	k (F2)		Reduce	ed Vertic (F18)		
Organic I	Bodies (A6) (LRR, P,	, T, U)	Depleted Ma	trix (F3)			(outs	side MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dai	k Surfa	ce (F7)		Anoma	llous Bright Floodplain Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		<u>—</u> (MLF	RA 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	arent Material (F21)		
	rk Surface (A12)	,	Depleted Ocl		1) (MLR	A 151)	Very S	hallow Dark Surface (F22)		
	airie Redox (A16) (M	LRA 150A						side MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (L l		Umbric Surfa					Islands Low Chroma Matrix (TS7)		
	leyed Matrix (S4)	0, 0,	Delta Ochric					RA 153B, 153D)		
	edox (S5)		Reduced Ver				•	Explain in Remarks)		
X Stripped	` '		Piedmont Flo	•	, ,		· —	Explain in Remarks)		
	, ,	T II)								
	face (S7) (LRR P, S,		Anomalous E	-		-		tors of hydrophytic vagetation and		
	e Below Surface (S8))	•				³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow		,	,	wetland hydrology must be present, unless disturbed or problematic.			
Postriotivo I	aver (if abanyad):		(MLRA 13	0, 15ZA	III FE, 1	54)	unie	ss disturbed or problematic.		
	.ayer (if observed): None									
Depth (in							Hydric Soil Pres	ent? Yes X No		
Remarks:							,	<u> </u>		
	terminated at 16 incl	hes due to	high water table. A	rea with	nin the pl	ot is bedd	ed and furrowed. No	evidence of recent soil alteration.		
			g							



W8B_WD1



Project/Site: Trail Ridge South	City/County: B	radford	Sampling Date: 12/6/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W8B_UD1
Investigator(s): D. Sank, N. Adams	Section, Township,	Range: 24, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (concave,	convex, none): convex	Slope (%): 1
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 02' 55.20"	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0-2 percent		NWI classifica	
Are climatic / hydrologic conditions on the site	·		explain in Remarks.)
Are Vegetation, Soil, or Hydrold	•	Normal Circumstances" present	
Are Vegetation, Soil, or Hydrok	· · · · · · · · · · · · · · · · · · ·	eded, explain any answers in Re	
SUMMARY OF FINDINGS – Attach			·
Hydrophytic Vegetation Present?	Yes X No Is the Sample	d Area	
	Yes No X within a Wetla		No X
	Yes X No		<u></u>
Remarks:			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the set the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ring the prior week. The site has been historic asonal high water table resuting in wetland vo ave been constructed perpendicular to the slo	cally converted to pine plantatio regetation within the furrow, how ope per silviculture BMPs. Since	on and has beds/furrows. In vever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	<u> </u>
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres on Living Roots	(C3) Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (Co		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Test	t (D5)
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)
Field Observations:		<u> </u>	-
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches):	Vetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspection	ons), if available:	
Not available			
Remarks:			
The natural landform has been converted for	·	· ·	ble is present with in the top
12 inches of the soil profile. Sphagnum moss	located on the side and bottom of the furrov	VS.	

	Absolute	Dominant	Indicator	1
ee Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Deminent Consis
				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
				That Are OBE, I AOW, OF I AC(A)
				Total Number of Dominant
				Species Across All Strata: 3 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A/B
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		=Total Cover		OBL species 4 x 1 = 4
F00/ - 54-4-1				
50% of total cover:	20%	of total cover:		FACW species 52 x 2 = 104
pling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 35 x 3 = 105
llex glabra	50	Yes	FACW	FACU species10 x 4 =40
Serenoa repens	10	No	FACU	UPL species 7 x 5 = 35
Ilex coriacea	2	No	FACW	Column Totals: 108 (A) 288 (E
Rhus copallinum	2	No	UPL	Prevalence Index = B/A = 2.67
Jopannani			<u> </u>	Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
				Double west's the decode of a Value of the 1 (Fundain)
	64	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 33			13	Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 32		of total cover:	13	Problematic Hydrophytic Vegetation (Explain)
50% of total cover: 32 arb Stratum (Plot size: 10m x 10m)				Problematic Hydrophytic Vegetation (Explain)
1			13 FAC	Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must
rb Stratum (Plot size: 10m x 10m)	2 20%	of total cover:		
Andropogon virginicus 10m x 10m)	20%	of total cover:	FAC	¹ Indicators of hydric soil and wetland hydrology must
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica	2 20% 20 15	of total cover: Yes Yes	FAC FAC OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata:
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum	2 20% 20 15 2 1	Yes Yes No No	FAC FAC OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
rb Stratum (Plot size: 10m x 10m) Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp.	2 20% 20 15 2 1 5	Yes Yes No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum	2 20% 20 15 2 1	Yes Yes No No	FAC FAC OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp.	2 20% 20 15 2 1 5	Yes Yes No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp.	2 20% 20 15 2 1 5	Yes Yes No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
rb Stratum (Plot size: 10m x 10m) Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp.	2 20% 20 15 2 1 5	Yes Yes No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana	2 20% 20 15 2 1 5	Yes Yes No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana	2 20% 20 15 2 1 5	Yes Yes No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana	2 20% 20 15 2 1 5	Yes Yes No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana	20 15 2 1 5 1	Yes Yes No No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana	20 15 2 1 5 1	Yes Yes No No No No Total Cover	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana	20 15 2 1 5 1	Yes Yes No No No No	FAC FAC OBL OBL UPL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana	20 15 2 1 5 1	Yes Yes No No No No Total Cover	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana	20 15 2 1 5 1	Yes Yes No No No No Total Cover	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana 50% of total cover: 22 pody Vine Stratum (Plot size: 10m x 10m)	20 15 2 1 5 1	Yes Yes No No No No Total Cover	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana 50% of total cover: 22 pody Vine Stratum (Plot size: 10m x 10m)	20 15 2 1 5 1	Yes Yes No No No No Total Cover	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana 50% of total cover: 22 pody Vine Stratum (Plot size: 10m x 10m)	20 15 2 1 5 1	Yes Yes No No No No Total Cover	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana 50% of total cover: 22 pody Vine Stratum (Plot size: 10m x 10m)	20 15 2 1 5 1	Yes Yes No No No No Total Cover	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana 50% of total cover: 22 pody Vine Stratum (Plot size: 10m x 10m)	20 15 2 1 5 1	Yes Yes No No No No Total Cover Total Cover of total cover:	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana 50% of total cover: 22 pody Vine Stratum (Plot size: 10m x 10m)	20 15 2 1 5 1	Yes Yes No No No No Total Cover	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
Andropogon virginicus Dichanthelium dichotomum Woodwardia virginica Eriocaulon compressum Cladonia sp. Lachnanthes caroliniana 50% of total cover: 22 pody Vine Stratum (Plot size: 10m x 10m)	20 15 2 1 5 1	Yes Yes No No No No Total Cover Total Cover of total cover:	FAC FAC OBL OBL UPL OBL	¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.

SOIL Sampling Point: W8B_UD1

	ription: (Describe t	o the dept				tor or co	onfirm the absence	of indicators.)		
Depth	Matrix			Featur		. 2		_		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		emarks	
0-4	10YR 3/1	50					Sandy		unmasked 10YR 6/1	
4-7	10YR 3/1	60					Sandy	Remaining soil	unmasked 10YR 6/1	
7-9	10YR 4/1	95	10YR 5/1	5	D	M	Sandy			
9-20	10YR 4/1	90	10YR 5/1	10	<u>D</u>	<u>M</u>	Sandy	Depletions in	ncrease throughout	
									il profile.	
	ncentration, D=Depl					l Grains.		PL=Pore Lining, I		
-	ndicators: (Applical	ole to all L						for Problematic	-	
Histosol (` '		Thin Dark Su					luck (A9) (LRR O		
	ipedon (A2)		Barrier Island			12)		luck (A10) (LRR \$	•	
Black His			(MLRA 153					Prairie Redox (A1	·	
Hydroger	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(outs	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduce	ed Vertic (F18)		
Organic I	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(outs	side MLRA 150A,	150B)	
5 cm Mud	cky Mineral (A7) (LR	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	ont Floodplain So	ils (F19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	lous Bright Flood	plain Soils (F20)	
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLR	RA 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Pa	arent Material (F2	1)	
Thick Da	rk Surface (A12)		Depleted Och	nric (F1	1) (MLR /	A 151)	Very SI	hallow Dark Surfa	ice (F22)	
Coast Pra	airie Redox (A16) (M	LRA 150A)Iron-Mangan	ese Mas	sses (F1	2) (LRR (O, P, T) (outs	ide MLRA 138, 1	52A in FL, 154)	
Sandy M	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier	Islands Low Chro	oma Matrix (TS7)	
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	1)	(MLR	RA 153B, 153D)		
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 1	50B) Other (Explain in Remar	ks)	
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)			
Dark Sur	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Flo	oodplain	Soils (F2				
Polyvalue	e Below Surface (S8)		(MLRA 149	9A, 153	C, 153D)		³ Indicat	tors of hydrophyti	c vegetation and	
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,			
			(MLRA 138	8, 152A	in FL, 1	54)	unle	ss disturbed or pr	oblematic.	
	ayer (if observed):									
· -	None						Livelaie Ceil Dane	mt2 Van	No. V	
Depth (in	iches).						Hydric Soil Prese	ent? Yes_	No_X	
Remarks:	sa plat ia baddad and	furroused	No ovidence of rea	ont onil	altaratio	-				
Area within tr	ne plot is bedded and	iurrowea.	ino evidence of rec	ent son	aiteratio	n.				



W8_UD1



Project/Site: Trail Ridge South	City/Cou	inty: Bradford	Sampling Date: 11/1/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W13-WD1
Investigator(s): N. Adams, B. Mcgee	Section, Town	nship, Range: <u>13, -7, 22</u>	
Landform (hillside, terrace, etc.): depression	Local relief (con	cave, convex, none): concave	Slope (%):0-2
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 35.49"	Datum: WGS 84
Soil Map Unit Name: Sapelo sand			ation: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes x No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed?	Are "Normal Circumstances" presen	t? Yes x No
Are Vegetation, Soil, or Hydrok		(If needed, explain any answers in R	
SUMMARY OF FINDINGS – Attach			,
Hydrophytic Vegetation Present?	Yes x No Is the Sa	ampled Area	
		Wetland? Yes x	No
	Yes x No	Trottund	
Remarks:			
Rainfall conditions for Bradford County were measurable rain fell during the week leading some areas the furrows may intercept the set the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	up to the site visit. The site has been has asonal high water table resuting in wet ave been constructed perpendicular to the	nistorically converted to pine plantatic land vegetation within the furrow, how the slope per silviculture BMPs. Sind	on and has beds/furrows. In wever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	cks (B6)
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	ıs (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)
X Water Marks (B1)	Oxidized Rhizospheres on Living I	Roots (C3) Dry-Season Wat	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	s (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Sc		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Pos	
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Tes	` '
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)
Field Observations:		T	
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes	No x Depth (inches):		
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			_
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous ins	spections), if available:	
Remarks:			
The natural landform has been converted for the seasonal water table is present in the top	•	•	

<u>Tree Stratum</u> (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:1(A)
3. 4.				Total Number of Dominant Species Across All Strata: 1 (B)
5. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 51 x 1 = 51
50% of total cover:		of total cover:		FACW species 2 x 2 = 4
		or total cover.		FAC species 0 x 3 = 0
Sapling/Shrub Stratum (Plot size: 10m x 10m)				
1.				FACU species 0 x 4 = 0
2.				UPL species 0 x 5 = 0
3.				Column Totals: 53 (A) 55 (B)
4.				Prevalence Index = B/A =1.04
5				Hydrophytic Vegetation Indicators:
6.				X 1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8				X 3 - Prevalence Index is ≤3.0 ¹
	:	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20%	of total cover:		
Herb Stratum (Plot size: 10m x 10m)				
Sagittaria graminea	10	No	OBL	¹ Indicators of hydric soil and wetland hydrology must be
Dichanthelium scabriusculum	2	No	OBL	present, unless disturbed or problematic.
3. Osmundastrum cinnamomeum	2	No	FACW	Definitions of Four Vegetation Strata:
Lachnanthes caroliniana	30	Yes	OBL	
5. Eriocaulon compressum	5	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
6. Xyris elliottii	3	No	OBL	height.
	1			
7. Panicum hemitomon		No	OBL	Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
	53	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 2	7 20%	of total cover:	11	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1				
2.				
3.				
4.				
5.				
		=Total Cover		Hydrophytic
50% of total cover:		of total cover:		Vegetation Present? Yes X No
		or total ouvel.		165 <u>X</u> 100
Remarks: (If observed, list morphological adaptation	ns below.)			

Planted Pinus elliotti makes up the canopy with 70% cover. Not included in calculations. No shrub species identified in plot. No vines identified in plot.

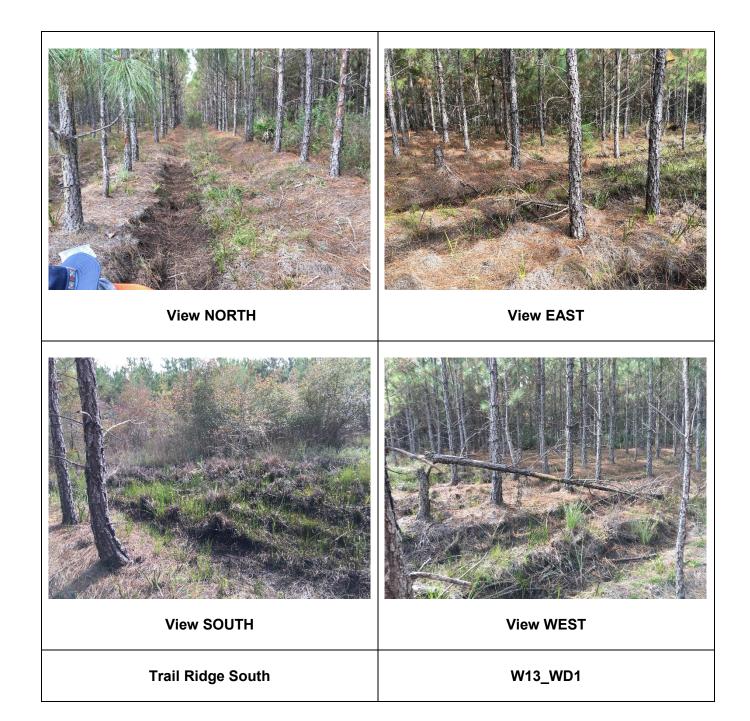
Sampling Point: W13-WD1

SOIL Sampling Point: W13-WD1

Profile Desc	ription: (Describe t	o the dep	th needed to docu	ment ti	ne indica	ator or co	onfirm the absence	of indicators.)
Depth	Matrix			Featur				
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/1	30					Sandy	Remaining soil unmasked 10YR 6/1
2-7	10YR 2/1	50	10YR 5/8	5	С	PL/M	Sandy	Remaining soil unmasked 10YR 6/1
7-9	10YR 2/1	50	10YR 5/8	5	<u>C</u>	PL/M	Sandy	Remaining soil unmasked 10YR 6/1
9-20	10YR 3/2	40	10YR 5/8	5	<u>C</u>	PL/M	Sandy	Remaining soil 10YR 5/3
	oncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix.
-	ndicators: (Applicat	ole to all L						for Problematic Hydric Soils ³ :
Histosol (` '		Thin Dark Su					Muck (A9) (LRR O)
	ipedon (A2)		Barrier Island		-	12)		Muck (A10) (LRR S)
Black His			(MLRA 15					Prairie Redox (A16)
	n Sulfide (A4)		Loamy Muck	,	· / ·	.RR O)	•	side MLRA 150A)
	Layers (A5)		Loamy Gleye					ed Vertic (F18)
	Bodies (A6) (LRR, P,		Depleted Mat	trix (F3)			,	side MLRA 150A, 150B)
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark S	Surface	(F6)		Piedm	ont Floodplain Soils (F19) (LRR P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	alous Bright Floodplain Soils (F20)
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLF	RA 153B)
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Pa	arent Material (F21)
Thick Da	rk Surface (A12)		Depleted Oct					hallow Dark Surface (F22)
	airie Redox (A16) (M		.)Iron-Mangan	ese Mas	sses (F1	2) (LRR (D, P, T) (outs	side MLRA 138, 152A in FL, 154)
Sandy M	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ce (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chroma Matrix (TS7)
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (N	MLRA 15	51)	(MLF	RA 153B, 153D)
_x_Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 1	Other ((Explain in Remarks)
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)	
Dark Sur	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	,	
	e Below Surface (S8))	(MLRA 149					tors of hydrophytic vegetation and
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	-22)	wetl	and hydrology must be present,
			(MLRA 138	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
	ayer (if observed):							
, · · -	None						Uhadala Oali Baas	
Depth (in	iches):						Hydric Soil Pres	ent? Yes X No
Remarks:	vidanas af maabania	al miving v	uith charn sail haun	dorios				
7-9 inches- e	vidence of mechanic	ai mixing v	viin snarp soii boun	daries				



W13_WD1



Project/Site: Trail Ridge South	City/County: Bradford	d Sampling Date: 11/1/18							
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W13-UD1							
Investigator(s): B.McGee, N. Adams	Section, Township, Range	e: 13, -7, 22							
Landform (hillside, terrace, etc.): terrace	Local relief (concave, conve	·							
Subregion (LRR or MLRA): LRR T, MLRA 15		: -82° 03' 35.75" Datum: WGS 84							
Soil Map Unit Name: Saplelo sand	<u></u>	NWI classification: Upland							
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes x	No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "Normal	I Circumstances" present? Yes x No							
Are Vegetation, Soil, or Hydrok		explain any answers in Remarks.)							
<u> </u>		itions, transects, important features, etc.							
Hydrophytic Vegetation Present?	Yes x No Is the Sampled Area	1							
	Yes No x within a Wetland?	Yes No_x_							
I	Yes X No								
Remarks:									
Rainfall conditions for Bradford County were slightly below average for October and are 3.07 inches above average for the prior 12 months. No measurable rain fell during the week leading up to the site visit. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resuting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows in some areas have been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.									
HYDROLOGY									
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)							
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)							
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)							
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)							
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)							
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)							
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)							
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)							
Iron Deposits (B5)	x Other (Explain in Remarks)	Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Test (D5)							
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)							
Field Observations:									
Surface Water Present? Yes	No x Depth (inches):								
Water Table Present? Yes	No x Depth (inches):								
Saturation Present? Yes	No x Depth (inches): Wetland	d Hydrology Present? Yes X No							
(includes capillary fringe)									
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspections), if	available:							
Remarks:									
	silviculture practices. It is expected that during the	wetl season the water table is present within the top							

Trace Charles (Districts 40mm v 40mm)	Absolute	Dominant	Indicator	Paralinamas Tast was dishart.
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 5 (B)
5 6.				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC: 60.0% (A/B) Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		=Total Cover		OBL species 10 x 1 = 10
50% of total cover:		of total cover:		FACW species 42 x 2 = 84
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 12 x 3 = 36
1. Ilex glabra	40	Yes	FACW	FACU species 10 x 4 = 40
2. Serenoa repens	10	Yes	FACU	UPL species 5 x 5 = 25
3.				Column Totals: 79 (A) 195 (B)
4.				Prevalence Index = B/A = 2.47
5.		<u></u>		Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	50	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 29	5 20%	of total cover:	10	<u> </u>
Herb Stratum (Plot size: 10m x 10m)				
1. Woodwardia virginica	10	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Ilex glabra	2	No	FACW	present, unless disturbed or problematic.
3. Dichanthelium sp.	5	Yes	UPL	Definitions of Four Vegetation Strata:
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7				
8.		•		Sapling/Shrub – Woody plants, excluding vines, less
9.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.				
11				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
	17	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 9	20%	of total cover:	4	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Vitis rotundifolia	10	Yes	FAC	
2. Smilax bona-nox	2	No	FAC	
3.				
4.				
5.				
	12	=Total Cover		Hydrophytic Vegetation
50% of total cover: 6		of total cover:	3	Present? Yes X No
	-			<u> </u>
Remarks: (If observed, list morphological adaptation Planted Pinus elliottii makes up the canopy with 70%	,	nculded in the	calculations	
The same of the sa				

Sampling Point: W13-UD1

SOIL Sampling Point: W13-UD1

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Rem	narks	
0-9	10YR 2/1	60	Color (Illoist)		Туре					
							Sandy	Remaining soil ui	masked 10YR 6/1	
9-22	10YR 3/1	90	10YR 5/1	10	D	M	Sandy	Increased deple	tions throughout	
								pro	ofile	
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=	Matrix.	
	ndicators: (Applicat							for Problematic Hy		
Histosol ((A1)		Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)		
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)		
	Layers (A5)		Loamy Gleye					ed Vertic (F18)		
	Bodies (A6) (LRR, P,		Depleted Ma	` '			(outside MLRA 150A, 150B)			
	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark		` '		Piedmont Floodplain Soils (F19) (LRR P, T)			
	esence (A8) (LRR U)		Depleted Da				Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)	(0.44)	Redox Depre		(F8)		(MLRA 153B) Red Parent Material (F21)			
	Below Dark Surface	(A11)	Marl (F10) (L		1) /MI D	1 4 5 4 \	Very Shallow Dark Surface (F22)			
	rk Surface (A12) airie Redox (A16) (M l	I DA 150A	Depleted Oct Iron-Mangan							
	ucky Mineral (S1) (LF		Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)	(i(0, 0)	Delta Ochric				(MLRA 153B, 153D)			
Sandy Re										
	Matrix (S6)			Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Other (Explain in Remarks)						
	face (S7) (LRR P, S,	T, U)	Anomalous E							
	e Below Surface (S8)		(MLRA 14	-			³ Indicators of hydrophytic vegetation and			
(LRR S			Very Shallow				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type: N	None									
Depth (in	ches):						Hydric Soil Prese	ent? Yes	NoX	
Remarks:										
Area within th	e plot is bedded and	furrowed.	No evidence of rec	cent alte	eration.					



W13_UD1



Project/Site: Trail Ridge South		City/County: Clay		Sampling Date: <u>01/31/19</u>				
Applicant/Owner: The Chemours Compa	ny FC, LLC		State: FL	Sampling Point: W14_WD1				
Investigator(s): N. Adams, B. McGee	Sect	ection, Township, Range: 18, -7, 23						
Landform (hillside, terrace, etc.): depression		elief (concave, convex,		Slope (%): 0				
Subregion (LRR or MLRA): LRR T, MLRA 15		•	82°02'27.9"W	Datum: WGS 84				
Soil Map Unit Name: Allanton and Rutlege m			NWI classification					
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)				
•								
Are Vegetation, Soil, or Hydrol	<u></u>		Circumstances" present					
Are Vegetation, Soil, or Hydrol			plain any answers in Re	•				
SUMMARY OF FINDINGS – Attach	site map snowing san		ons, transects, in	iportant leatures, etc.				
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area						
l ,		within a Wetland?	Yes X	No				
Wetland Hydrology Present?	Yes X No							
Remarks: Rainfall conditions for Clay County were higher than normal for January and are 5.94 inches above average for the prior 12 months. An average 1.86 inches of rainfall was recorded at the site during the prior week.								
HYDROLOGY				·				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Crac	ks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetate	ed Concave Surface (B8)				
X High Water Table (A2)	Marl Deposits (B15) (LRI	RR U) Drainage Patterns (B10)						
X Saturation (A3)	Hydrogen Sulfide Odor (0	·	X Moss Trim Lines (•				
X Water Marks (B1)	Oxidized Rhizospheres o		Dry-Season Wate					
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows					
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		X Geomorphic Posit					
X Iron Deposits (B5)	Other (Explain in Remark	(s)	Shallow Aquitard	,				
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test	• •				
Water-Stained Leaves (B9)		<u> </u>	X Sphagnum Moss	(D8) (LKK 1,U)				
Field Observations: Surface Water Present? Yes	No. V. Donth (inches).							
Surface Water Present? Yes Water Table Present? Yes X	No X Depth (inches): No Depth (inches):	2						
Saturation Present? Yes X	No Depth (inches):		Hydrology Present?	Yes X No				
(includes capillary fringe)	Deptil (iliches).	vvetiand	riyarology Fresent:	165 <u>X</u> 110				
Describe Recorded Data (stream gauge, mo	nitoring well aerial photos pre	evious inspections) if a	vailable [.]					
	g, acriai pricios, pri	,,,,						
Remarks:								
Sphagnum moss observed with 5% cover of	plot.							

Tree Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus elliottii	1	No	FACW	
2.			TACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 6 (B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		=Total Cover		OBL species23 x 1 =23
50% of total cover:1	20%	of total cover:	1	FACW species 18 x 2 = 36
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species10 x 3 =30
1. Persea palustris	3	Yes	FACW	FACU species 2 x 4 = 8
2. Morella cerifera	2	No	FAC	UPL species0 x 5 =0
3. Pinus elliottii	5	Yes	FACW	Column Totals: (A) (B)
4. Serenoa repens	1	No	FACU	Prevalence Index = B/A = 1.83
5. Lyonia lucida	3	Yes	FACW	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				X 3 - Prevalence Index is ≤3.0 ¹
	14:	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:7	20%	of total cover:	3	
Herb Stratum (Plot size: 10m x 10m)				
1. Andropogon virginicus	5	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be
2. Pinus elliottii	1	No	FACW	present, unless disturbed or problematic.
3. Pteridium aquilinum	1	No	FACU	Definitions of Four Vegetation Strata:
4. Persea palustris	1	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Woodwardia virginica	5	Yes	OBL	more in diameter at breast height (DBH), regardless of
6. Rhexia nashii	1	No	FACW	height.
7. Scirpus cyperinus	3	No	OBL	Continue (Observe) We and a state of a second size of a s
8. Scleria baldwinii	1	No	FACW	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9. Solidago fistulosa	3	No	FAC	and the BBH and groater than 0.20 it (1 iii) tail.
10. Xyris elliottii	15	Yes	OBL	
11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.				of size, and woody plants less than 5.20 ft tail.
	36	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 18	8 20%	of total cover:	8	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Smilax laurifolia	2	No	FACW	
2.				
3.				
4.				
5.				
	2	=Total Cover		Hydrophytic
50% of total cover: 1		of total cover:	1	Vegetation Present? Yes X No
		- total cover.		11000m: 100 <u>X</u> 110
Remarks: (If observed, list morphological adaptation	ns below.)			

Sampling Point: W14_WD1

SOIL Sampling Point: W14_WD1

	ription: (Describe to	o the dep				ator or co	onfirm the absence	of indicators.)			
Depth	Matrix			x Featur		1 2	Tardona	Demonto			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0-6.5	10YR 2/1						Sandy	7% organic bodies within top 3 inches			
								Remaining soil unmasked 10YR 6/1			
6.5-15	10YR 4/1	60					Sandy	Remaining soil unmasked 10YR 6/1			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, N	 1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.			
Hydric Soil In	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :			
Histosol ((A1)		X Thin Dark Su	urface (S	9) (LRR	S, T, U)	1 cm M	Muck (A9) (LRR O)			
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)			
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)			
Hydroger	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	— (outs	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)			
X Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		— (outs	side MLRA 150A, 150B)			
5 cm Muc	cky Mineral (A7) (LRF	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	alous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)				
 Depleted	Below Dark Surface	(A11)	 Marl (F10) (L	.RR U)			Red Parent Material (F21)				
Thick Dar	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) (M I	LRA 150A) Iron-Mangan	ese Ma	sses (F12	2) (LRR C	D, P, T) (outside MLRA 138, 152A in FL, 154)				
Sandy Mu	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(MLRA 153B, 153D)				
Sandy Re	edox (S5)		Reduced Ve	rtic (F18) (MLRA	150A, 15	50B) Other (Explain in Remarks)				
Stripped I	Matrix (S6)		Piedmont Flo	Piedmont Floodplain Soils (F19) (MLRA 149A)							
X Dark Surf	face (S7) (LRR P, S,	T, U)	Anomalous I	Bright Fl	oodplain	Soils (F2	0)				
Polyvalue	Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	s, T, U)		Very Shallov				wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: <u>N</u> Depth (in	lone ches):						Hydric Soil Prese	ent? Yes X No			
Remarks:							,	<u> </u>			
	terminated at 15 inch	nes due to	high water table. N	No evide	ence of re	cent soil	alteration.				



W14_WD1



Project/Site: Trail Ridge South	City/County	: Clay	Sampling Date: 01/31/19			
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W14_UD1			
Investigator(s): N. Adams, B. McGee	Section, Townsh	 nip, Range: 18, -7, 23				
Landform (hillside, terrace, etc.): hillside		ve, convex, none): none	Slope (%): 0-2			
Subregion (LRR or MLRA): LRR T, MLRA 15	<u> </u>	Long: -82°02'28.2"W	Datum: WGS 84			
						
Soil Map Unit Name: Hurricane fine sand, 0-5		NWI classifica				
Are climatic / hydrologic conditions on the site	•		explain in Remarks.)			
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are	e "Normal Circumstances" present	? Yes X No			
Are Vegetation, Soil, or Hydrold	ogynaturally problematic? (If	needed, explain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	site map showing sampling poi	int locations, transects, in	portant features, etc.			
Hydrophytic Vegetation Present?	Yes No X Is the Samp	oled Area				
, , , ,	Yes No X within a We		No X			
Wetland Hydrology Present?	Yes No X					
Remarks: Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has been his asonal high water table resulting in wetlar have been constructed perpendicular to	torically converted to pine plantation of vegetation within the furrow, how the slope per silviculture BMPs. S	on and has beds/furrows. In vever upland plants remain			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac				
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRR U)	sits (B15) (LRR U) Drainage Patterr				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	n Sulfide Odor (C1) Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres on Living Roo	ots (C3) X Dry-Season Wate	r Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	of Reduced Iron (C4) Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	` ' <u>—</u>	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posit				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard				
Inundation Visible on Aerial Imagery (B7))	FAC-Neutral Test				
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)			
	No X Depth (inches): No Depth (inches): No Depth (inches): Depth (inches): intoring well, aerial photos, previous inspec	Wetland Hydrology Present?	Yes No _X_			
Remarks: The natural landform has been converted for	silviculture practices.					

		Absolute	Dominant	Indicator	
	e Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. 2.					Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.					Total Number of Dominant Species Across All Strata:3(B)
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
			Total Cover		OBL species 0 $x = 0$
	50% of total cover:	20%	of total cover:		FACW species 15 x 2 = 30
Saı	oling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 8 x 3 = 24
1.	Gordonia lasianthus	10	No	FACW	FACU species 60 x 4 = 240
2.	Rhus copallinum	3	No	UPL	UPL species 3 x 5 = 15
3.	Lyonia ferruginea	2	No	FACU	Column Totals: 86 (A) 309 (B)
4.	Ilex coriacea	1	No	FACW	Prevalence Index = B/A = 3.59
5.	Serenoa repens	50	Yes	FACU	Hydrophytic Vegetation Indicators:
6.	<u> </u>				1 - Rapid Test for Hydrophytic Vegetation
7.					2 - Dominance Test is >50%
8.					3 - Prevalence Index is ≤3.0 ¹
		66 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover: 3		of total cover:	14	
Hei	b Stratum (Plot size: 10m x 10m)				
1.	Pteridium aquilinum	8	Yes	FACU	The disease of budging and supplied budget and provided
2.	Dichanthelium dichotomum	5	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	llex glabra	3	No	FACW	Definitions of Four Vegetation Strata:
4.	Rubus argutus	1	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.	Andropogon virginicus	2	No	FAC	more in diameter at breast height (DBH), regardless of
6.	Pinus elliottii	1	No	FACW	height.
7.	- mad dimetal				
8.					Sapling/Shrub – Woody plants, excluding vines, less
9.					than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.					
11.					Herb – All herbaceous (non-woody) plants, regardless
12.					of size, and woody plants less than 3.28 ft tall.
		20 =	Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
	50% of total cover:		of total cover:	4	height.
W۵	ody Vine Stratum (Plot size: 10m x 10m)	0 2070	or total cover.		
1.					
2.					
2. 3.					
4. -					
5.			Tatal Commi		Hydrophytic
	E00/ -54-4-1		=Total Cover		Vegetation
	50% of total cover:		of total cover:		Present?
Rei	marks: (If observed, list morphological adaptation	ns helow)			

Planted Pinus elliottii makes up the canopy with 5% cover. Not included in calculations because it was planted. No woody vine stratum was observed in plot.

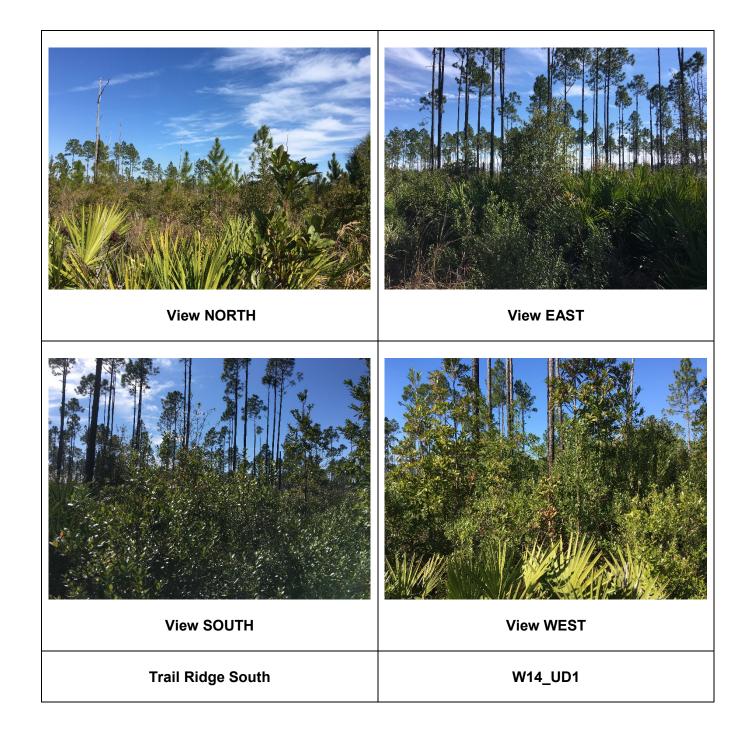
Sampling Point: W14_UD1

SOIL Sampling Point: W14_UD1

	ription: (Describe t	o the dept				tor or co	onfirm the absence	of indicators.)		
Depth	Matrix			x Featur		. 2	- .	5		
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture		narks	
0-4	10YR 3/1						Sandy		nmasked 10YR 6/1	
4-12	10YR 4/1	50					Sandy	Remaining soil ur	nmasked 10YR 6/1	
12-15	10YR 6/1	80					Sandy	Remaining s	soil 10YR 7/1	
¹Type: C=Co	ncentration, D=Deple	etion RM=	Reduced Matrix M	 IS=Mas	ked Sand	Grains	² I ocation	PL=Pore Lining, M=	——————————————————————————————————————	
	ndicators: (Applicat							for Problematic Hy		
Histosol (Thin Dark Su			S, T, U)		luck (A9) (LRR O)		
	ipedon (A2)		Barrier Island	,	, ,			luck (A10) (LRR S)		
Black His			(MLRA 15			,		Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)		
	Layers (A5)		Loamy Gleye	•	` ' '	,	•	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	T. U)	Depleted Ma					side MLRA 150A, 15	50B)	
	cky Mineral (A7) (LR I		Redox Dark				•	•	•	
	esence (A8) (LRR U)	, , , -,	Depleted Da				Piedmont Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre		` '		(MLRA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L		(- /		Red Parent Material (F21)			
	rk Surface (A12)	` /	Depleted Oc		1) (MLR /	(151)	Very Shallow Dark Surface (F22)			
	airie Redox (A16) (M	LRA 150A								
	ucky Mineral (S1) (LI		Umbric Surfa		•	, ,	Barrier Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)	, -,	Delta Ochric	•	, ,		(MLRA 153B, 153D)			
	edox (S5)			. , .		•	,			
	Matrix (S6)			Reduced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks) Piedmont Floodplain Soils (F19) (MLRA 149A)						
··	face (S7) (LRR P, S,	T. U)	Anomalous E							
	Below Surface (S8)		(MLRA 14	-		-		tors of hydrophytic v	egetation and	
(LRR S			Very Shallow				wetland hydrology must be present,			
(======	., ., .,		(MLRA 13		,	,	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type: 1	None									
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No _X	
Remarks:										
Soil boring is	terminated at 15 incl	nes due to	high water table. <i>F</i>	Area with	hin plot is	bedded	and furrowed. No evi	dence of recent soil	alteration.	



W14_UD1



Project/Site: Trail Ridge South	Ci	ity/County: Bradford		Sampling Date: 12/5/18
Applicant/Owner: The Chemours Compar	ny FC, LLC		State: FL	Sampling Point: W15-WD1
Investigator(s): D.Sank, D.LeJeune	Section	n, Township, Range: 1	3, -7, 22	-
Landform (hillside, terrace, etc.): depression		ef (concave, convex, no		Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15		,	° 03' 8.16"W	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0 to 2 perce			NWI classificat	
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed	d? Are "Normal Circ	cumstances" present?	? Yes X No
Are Vegetation, Soil, or Hydrok			ain any answers in Re	
SUMMARY OF FINDINGS – Attach	· <u>······</u>		-	•
Hydrophytic Vegetation Present?	Yes X No Is	the Sampled Area		
1		ithin a Wetland?	Yes X	No
1	Yes X No			
Remarks:				
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows have dominan cross slope, this can result in ponding of water	ring the prior week. The site has asonal high water table resulting atly been constructed perpendicu	been historically conve g in wetland vegetation valuer to the slope per silvi	erted to pine plantatior within the furrow, how	n and has beds/furrows. In vever upland plants remain
HYDROLOGY				
Wetland Hydrology Indicators:		<u>S</u>	Secondary Indicators ((minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Crack	
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR I	U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odor (C1	_	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on I	Living Roots (C3)	Dry-Season Water	r Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron	(C4)	Crayfish Burrows ((C8)
Drift Deposits (B3)	Recent Iron Reduction in Ti	illed Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		X Geomorphic Posit	ion (D2)
Iron Deposits (B5)	X Other (Explain in Remarks)	_	Shallow Aquitard (
Inundation Visible on Aerial Imagery (B7))		X FAC-Neutral Test	
Water-Stained Leaves (B9)			Sphagnum Moss ((D8) (LRR T,U)
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches):	Wetland Hy	drology Present?	Yes <u>X</u> No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previ	ous inspections), if avai	ilable:	
Remarks:				
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expe	cted that during the wet	t season the water tak	ole is present with in the top

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

VEGETATION (Four Strata) – Use scientif	ic names	of plants.		Sampling Point: W15-WD1
Tree Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3.				Total Number of Dominant Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 75.0% (A/I
7.				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		=Total Cover		OBL species 52 x 1 = 52
50% of total cover:	20%	of total cover:		FACW species 2 x 2 = 4
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 35 x 3 = 105
Serenoa repens	20	Yes	FACU	FACU species 20 x 4 = 80
2.				UPL species 0 x 5 = 0
3.				Column Totals: 109 (A) 241 (I
4.				Prevalence Index = B/A = 2.21
5		•		Hydrophytic Vegetation Indicators:
6.		-		
				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
	20	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:10	0 20%	of total cover:	4	
Herb Stratum (Plot size: 10m x 10m)				
Woodwardia virginica	50	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must
Dichanthelium dichotomum	30	Yes	FAC	present, unless disturbed or problematic.
Osmundastrum cinnamomeum	2	No	FACW	Definitions of Four Vegetation Strata:
	2			
4. Xyris elliottii		No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)
5				more in diameter at breast height (DBH), regardless height.
6.				neight.
7				Sapling/Shrub – Woody plants, excluding vines, les
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				ulan o ini BBN ana groator than o.zo it (1 m) taii.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardles
12.		•		of size, and woody plants less than 3.28 ft tall.
12.	84	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
F00/ - 54-4-1			47	height.
50% of total cover: 42	2 20%	of total cover:	17	noight.
Woody Vine Stratum (Plot size: 10m x 10m)				
Vitis rotundifolia	5	Yes	FAC	
2				
3.				
4.				
5.				
	5	=Total Cover		Hydrophytic
50% of total cover: 3		of total cover:	1	Vegetation Present? Yes X No
50% of total cover:3	20%	or total cover.	- 1	Present? Yes X No No
Remarks: (If observed, list morphological adaptation	,			
Planted Pinus elliottii makes up the canopy with 70%	cover. Not	included in the	calculations	s because it was planted.

SOIL Sampling Point: W15-WD1

		o the dep				ator or co	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/1	50	Color (Inolst)		Туре	LOC	Sandy	Remaining 50% unmasked 10YR 6/1
5-20	10YR 2/2	60	10YR 5/1	10		M	Sandy	Remaining 30% unmasked 10YR 6/1
			_		,			Depletions percent increases
								through soil profile
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil In	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol (A1)		Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie Redox (A16)
Hydrogen	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(outs	ide MLRA 150A, 150B)
5 cm Mud	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bright Floodplain Soils (F20)
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLF	RA 153B)
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	rent Material (F21)
Thick Dar	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very S	hallow Dark Surface (F22)
Coast Pra	airie Redox (A16) (M	LRA 150A) Iron-Mangan	ese Mas	sses (F12	2) (LRR (O, P, T) (outs	ide MLRA 138, 152A in FL, 154)
Sandy Mu	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chroma Matrix (TS7)
Sandy GI	eyed Matrix (S4)		Delta Ochric					RA 153B, 153D)
Sandy Re	` '		Reduced Ve					Explain in Remarks)
X Stripped I	` ,		Piedmont Flo					
	face (S7) (LRR P, S,		Anomalous E	-				
	e Below Surface (S8)		(MLRA 14					tors of hydrophytic vegetation and
(LRR S	5, T, U)		Very Shallow			•		and hydrology must be present,
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
	ayer (if observed):							
Type: <u>N</u> Depth (in	lone						Hydric Soil Prese	ent? Yes X No
Remarks:							Tiyunc 3011 Frese	165 <u>/</u> 10
	e plot is bedded and	furrowed	No evidence of re	cent soi	il alteratio	on		
, a od Widini ti	o piet le bedded dila	iuiiowou.	110 011001100 0110	00111 001	ii aitoratic	,		



W15_WD1



Project/Site: Trail Ridge South	City/County:	Bradford Sampling Date: 12/5/18
Applicant/Owner: The Chemours Compan	ny FC, LLC	State: FL Sampling Point: W15-UD1
Investigator(s): D.Sank, D.LeJeune	Section, Township	o, Range: 13, -7, 22
Landform (hillside, terrace, etc.): terrace	Local relief (concave	e, convex, none): convex Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15.		Long: -82° 03' 7.22"W Datum: WGS 84
Soil Map Unit Name: Leon sand, 0 to 2 perce		NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year?	es X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are	"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrold		eeded, explain any answers in Remarks.)
		nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes X No Is the Sampl	ed Area
	Yes No X within a Wet	
_ ·	Yes X No	
Remarks:		
inches of rainfall was recorded at the site duri some areas the furrows may intercept the sea	ing the prior week. The site has been histo asonal high water table resulting in wetland ty been constructed perpendicular to the s	ches above average for the prior 12 months. An average 1.54 rically converted to pine plantation and has beds/furrows. In a vegetation within the furrow, however upland plants remain lope per silviculture BMPs. Since furrows are constructed periods.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all tha <u>t apply)</u>	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Root	
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	<u> </u>	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No X Depth (inches):	
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspec	tions), if available:
Remarks:		
The natural landform has been converted for	silviculture practices.	

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

Tree Stretum (Diet eine 10m v 10m)	Absolute	Dominant Species?	Indicator	Deminance Test weeksheet
Tree Stratum (Plot size: 10m x 10m) 1.	% Cover	Species?	Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 6 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	=	Total Cover		OBL species 25 x 1 = 25
50% of total cover:	20%	of total cover:		FACW species 10 x 2 = 20
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species15 x 3 =45
1. Serenoa repens	35	Yes	FACU	FACU species 37 x 4 = 148
2. <u>Ilex glabra</u>	10	Yes	FACW	UPL species10 x 5 =50
3				Column Totals: 97 (A) 288 (B)
4				Prevalence Index = B/A = 2.97
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	45 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 23	20%	of total cover:	9	
Herb Stratum (Plot size: 10m x 10m)				
Woodwardia virginica	20	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Lachnanthes caroliniana	5	No	OBL	present, unless disturbed or problematic.
3. Cladonia sp.	10	Yes	UPL	Definitions of Four Vegetation Strata:
4. Dichanthelium dichotomum	5	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Andropogon virginicus	2	No	FAC	more in diameter at breast height (DBH), regardless of
6. Pteridium aquilinum	2	No	FACU	height.
7. 8.				Sapling/Shrub – Woody plants, excluding vines, less
9.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.				
11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12	 44 =	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 22		of total cover:	9	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
Vitis rotundifolia	5	Yes	FAC	
2. Smilax bona-nox	3	Yes	FAC	
3.		163		
4.				
5.				
5.	 8 =	=Total Cover		Hydrophytic Vegetation
50% of total cover:4	20%	of total cover:	2	Present? Yes X No No
Remarks: (If observed, list morphological adaptation	s helow \			
Planted Pinus elliottii makes up the canopy with 80%	,	included in the	calculations	because it was planted.

US Army Corps of Engineers

Sampling Point: W15-UD1

SOIL Sampling Point: W15-UD1

	iption: (Describe to	o the dept				ator or co	onfirm the absence	of indicators.)			
Depth	Matrix			K Featur		. 2	- .				
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture		Remarks		
0-6	10YR 4/1								0% unmasked 10YR 6/1		
6-9	10YR 4/1	70						Remaining 3	0% unmasked 10YR 6/1		
9-14	10YR 6/1								0% unmasked 10YR 7/1		
14-20	10YR 4/1	60						Remaining 4	0% unmasked 10YR 7/1		
	ncentration, D=Deple					d Grains.		PL=Pore Lining			
Hydric Soil Ir	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problemat	ic Hydric Soils ³ :		
Histosol (A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm N	luck (A9) (LRR	(O)		
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	luck (A10) (LR	R S)		
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)		
Hydrogen	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	side MLRA 150	OA)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outs	side MLRA 150)A, 150B)		
5 cm Muc	ky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedme	ont Floodplain S	Soils (F19) (LRR P, T)		
Muck Pre	sence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	alous Bright Flo	odplain Soils (F20)		
1 cm Muc	k (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	arent Material (F21)		
Thick Dark Surface (A12)			Depleted Oc	hric (F1	1) (MLR /	A 151)	Very Shallow Dark Surface (F22)				
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12)				2) (LRR (D, P, T) (outs	side MLRA 138	3, 152A in FL, 154)				
Sandy Mu	ıcky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ce (F13	3) (LRR P	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(MLF	RA 153B, 153D)		
Sandy Re	edox (S5)		Reduced Ver	tic (F18	B) (MLRA	150A, 1	50B) Other (Explain in Rem	narks)		
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Surf	ace (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	20)				
Polyvalue	Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indica	tors of hydroph	ytic vegetation and		
(LRR S	, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
· –	lone						Hudria Sail Broad	ont? Vo	o No V		
Depth (inc							Hydric Soil Prese	ent? Ye	s No_X_		
Remarks:	e plot is bedded and	furrowed	No evidence of re	cent so	il alteratio	nn.					
Alea within th	e piot is bedded and	iuiioweu.	No evidence of re	Cent 30	ii aiteratic)II.					



W15_UD1



Project/Site: Trail Ridge South	City/Cou	unty: Bradford	Sampling Date: 11/1/18
Applicant/Owner: The Chemours Compa	ny FC, LLC	State: FL	Sampling Point: W16-WD1
Investigator(s): D. LeJune, C. Kul, T. Richard	Ison Section, Tow	/nship, Range: 13, -7, 22	
Landform (hillside, terrace, etc.): terrace		ncave, convex, none): none	Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15	,	Long: -82° 03' 41.33"	Datum: WGS 84
Soil Map Unit Name: Mascotte sand, 0 to 2 p			ation: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes x No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrol		Are "Normal Circumstances" presen	
Are Vegetation, Soil, or Hydrol		(If needed, explain any answers in R	
SUMMARY OF FINDINGS – Attach			·
Hydrophytic Vegetation Present?	Yes X No Is the S	ampled Area	
1		Wetland? Yes X	No
	Yes X No		
Remarks:			
Rainfall conditions for Bradford County were measurable rain fell during the week leading some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of wat	up to the site visit. The site has been leasonal high water table resuting in we have been constructed perpendicular to	historically converted to pine plantatic tland vegetation within the furrow, how the slope per silviculture BMPs. Sind	on and has beds/furrows. In wever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)	Surface Soil Crac	
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	
Water Marks (B1)	Oxidized Rhizospheres on Living		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	
Drift Deposits (B3)	Recent Iron Reduction in Tilled S		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	=
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	(D3)
Inundation Visible on Aerial Imagery (B7	<u></u>	X FAC-Neutral Tes	it (D5)
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T,U)
Field Observations:	_	T	
Surface Water Present? Yes	No x Depth (inches):	_	
Water Table Present? Yes	No x Depth (inches):	<u> </u>	
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)		<u> </u>	
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previous in	spections), if available:	
Remarks:			
The natural landform has been converted for 12 inches of the soil profile. The wetland doe			ble is present with in the top

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

- O	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. Gordonia lasianthus	10	Yes	FACW	Number of Dominant Species
2.		-		That Are OBL, FACW, or FAC: 4 (A)
3.				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	10	=Total Cover		OBL species <u>27</u> x 1 = <u>27</u>
50% of total cover:5	20%	of total cover:	2	FACW species 79 x 2 = 158
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 0 x 3 = 0
1. Ilex glabra	40	Yes	FACW	FACU species0 x 4 =0
2. Gordonia lasianthus	2	No	FACW	UPL species 0 x 5 = 0
3.				Column Totals: 106 (A) 185 (B)
4.			,	Prevalence Index = B/A = 1.75
5.				Hydrophytic Vegetation Indicators:
6.				X 1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0¹
o	42	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 2°			9	
	2070	of total cover:		
Herb Stratum (Plot size: 10m x 10m)	05		E4 0)4/	
Osmundastrum cinnamomeum	25	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be
Woodwardia virginica	25	Yes	OBL	present, unless disturbed or problematic.
3. <u>Lachnanthes caroliniana</u>	2	No	OBL	Definitions of Four Vegetation Strata:
3. Lachnanthes caroliniana4. Gordonia lasianthus	2 2	No No	OBL FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4. Gordonia lasianthus				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Gordonia lasianthus5.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
4. Gordonia lasianthus5.6.7.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
4. Gordonia lasianthus5.6.7.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
 4. Gordonia lasianthus 5. 6. 7. 8. 				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
 4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11 				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
 4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
 4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 	2			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
 4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 	54	No No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27.	54	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27 Woody Vine Stratum (Plot size: 10m x 10m)	54	No No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 12. 13. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	54	No No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2.	54	No No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3.	54	No No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27	54	No No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27. Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4		=Total Cover	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27		=Total Cover of total cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27		=Total Cover		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. 5.		=Total Cover of total cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27 Woody Vine Stratum (Plot size: 10m x 10m) 1. 2. 3. 4. 5. 50% of total cover:		No Total Cover: Total Cover: Total Cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27		No Total Cover: Total Cover: Total Cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No
4. Gordonia lasianthus 5. 6. 7. 8. 9. 10. 11. 12. 50% of total cover: 27		No Total Cover: Total Cover: Total Cover:		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes X No

Sampling Point: W16-WD1

SOIL Sampling Point: W16-WD1

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix	%		k Featur		Loc ²	Touture	Domonico		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	LOC	Texture	Remarks		
0-5	10YR 2/1	65	10YR 6/1	35			Sandy	65% masked soil		
5-12	10YR 4/1	90	10YR 5/1	10	<u>D</u>	M	Sandy	10% striping increase to 30% at 12 inches		
12-20	10YR 2/1	100								
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil In	ndicators: (Applical	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol ((A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)		
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie Redox (A16)		
Hydrogen	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)		
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outs	ide MLRA 150A, 150B)		
	cky Mineral (A7) (LR I		Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)		Depleted Dai	rk Surfa	ce (F7)			lous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre					AA 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L		,		Red Pa	rent Material (F21)		
	rk Surface (A12)	,	Depleted Ocl		1) (MLR	A 151)	Very SI	hallow Dark Surface (F22)		
	airie Redox (A16) (M	LRA 150A		-				ide MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (LI		Umbric Surfa					Islands Low Chroma Matrix (TS7)		
	eyed Matrix (S4)		Delta Ochric					AA 153B, 153D)		
Sandy Re			Reduced Ver					Explain in Remarks)		
X Stripped I	` '		Piedmont Flo	,	, ,		· — `	,		
	face (S7) (LRR P, S,	T. U)	Anomalous E							
	Below Surface (S8)		(MLRA 14	-				tors of hydrophytic vegetation and		
(LRR S			Very Shallow					wetland hydrology must be present,		
(=::::::	., ., .,		(MLRA 13			•	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type: N	None									
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No		
Remarks:		£	No ovidonos of no							
Area within th	e plot is bedded and	iurrowea.	no evidence of rec	cent alte	eration.					



W16_WD1



Project/Site: Trail Ridge South	City/County:	Bradford S	Sampling Date: 11/1/18					
Applicant/Owner: The Chemours Compa	ny FC, LLC	State: FL S	Sampling Point: W16_UD1					
Investigator(s): D. Sank, C. Kul, T. Richardso	on Section, Townshi	p, Range: 13, -7, 22						
Landform (hillside, terrace, etc.): terrace		e, convex, none): none	Slope (%): 2					
Subregion (LRR or MLRA): LRR T, MLRA 15	,	Long: -82° 03' 41.09"	Datum: WGS 84					
Soil Map Unit Name: Mascotte sand, 0 to 2 p		NWI classification						
Are climatic / hydrologic conditions on the site	e typical for this time of year?	es X No (If no, exp	olain in Remarks.)					
Are Vegetation, Soil, or Hydrol		"Normal Circumstances" present?	Yes X No					
Are Vegetation, Soil, or Hydrol		leeded, explain any answers in Rem						
SUMMARY OF FINDINGS – Attach			•					
Hydrophytic Vegetation Present?	Yes No x Is the Samp	led Area						
	Yes No x within a Wet		No X_					
l	Yes x No							
Remarks:								
Rainfall conditions for Bradford County were slightly below average for October and are 3.07 inches above average for the prior 12 months. No measurable rain fell during the week leading up to the site visit. The site has been converted to pine plantation and has beds/furrows. In the less dry areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow and upland plants on the bed. Soils have not been altered for a sufficient duration to have morphologies that reflect the hydrologic conditions onsite. Beds and furrows have dominantly been constructed perpendicular to the slope per BMPs. This can result in ponding of water within the furrows during abnormally wet periods.								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indicators (m						
Primary Indicators (minimum of one is requir		Surface Soil Cracks						
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) (I PP II)		Concave Surface (B8)					
High Water Table (A2) Saturation (A3)	Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1)	Drainage Patterns (E Moss Trim Lines (B1						
Water Marks (B1)	Oxidized Rhizospheres on Living Root		· ·					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (Ci						
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (n Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position						
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (D3	` '					
Inundation Visible on Aerial Imagery (B7		X FAC-Neutral Test (D						
Water-Stained Leaves (B9)	,	Sphagnum Moss (D	·					
Field Observations:								
Surface Water Present? Yes	No x Depth (inches):							
Water Table Present? Yes	No x Depth (inches):							
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	Yes x No					
(includes capillary fringe)		, 0,						
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, previous inspec	ctions), if available:						
Remarks:	_	_						
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected that d	uring the wet season the water table	is present within the top					

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

VEGETATION (Four Strata) – Use scientif	ic names	of plants.		Sampling Point:	W16_UD1
Tree Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	4(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	50.0% (A/B)
7.			,	Prevalence Index worksheet:	
8.				Total % Cover of: M	ultiply by:
		=Total Cover		OBL species 6 x 1 =	6
50% of total cover:		of total cover:		FACW species 15 x 2 =	30
Sapling/Shrub Stratum (Plot size: 10m x 10m)		or total cover.		FAC species 2 x3=	6
	30	Yes	FACU	FACU species 30 x 4 =	120
,	15				
2. Ilex glabra	15	Yes	FACW		10 (D)
3.				Column Totals: 55 (A)	(B)
4				Prevalence Index = B/A =	3.13
5				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Ve	getation
7				2 - Dominance Test is >50%	
8.				3 - Prevalence Index is ≤3.0 ¹	
	45	=Total Cover		Problematic Hydrophytic Vegetat	ion ¹ (Explain)
50% of total cover: 2	3 20%	of total cover:	9	<u> </u>	(' ,
Herb Stratum (Plot size: 10m x 10m)		or total cover.			
	_	V	ODI		
1. Woodwardia virginica	5	Yes	OBL	¹ Indicators of hydric soil and wetland	
2. Lachnanthes caroliniana	1	No	OBL	present, unless disturbed or problema	
3. Dichanthelium dichotomum	1	No	FAC	Definitions of Four Vegetation Stra	ta:
4. Cladonia sp.	2	Yes	UPL	Tree – Woody plants, excluding vines	
5.				more in diameter at breast height (DE	sH), regardless of
6				height.	
7.					
8.				Sapling/Shrub – Woody plants, exclusion 2 in DRU and greater they 2 22	
9.				than 3 in. DBH and greater than 3.28	π (1 m) tall.
10					
				Herb – All herbaceous (non-woody) p	
11.				of size, and woody plants less than 3.	.28 ft tall.
12					
	9	=Total Cover		Woody Vine – All woody vines greate	er than 3.28 ft in
50% of total cover:5	20%	of total cover:	2	height.	
Woody Vine Stratum (Plot size: 10m x 10m)					
1. Vitis rotundifolia	1	No	FAC		
2.					
3.					
4.					
		•			
5		T-4-1-0		Hydrophytic	
		=Total Cover		Vegetation	
50% of total cover:1	20%	of total cover:	1	Present? Yes No	X
Remarks: (If observed, list morphological adaptation	ns below.)			•	
Planted Pinus ellottii makes up the canopy with 70%	,	ncluded in calc	ulations		

SOIL Sampling Point: W16_UD1

	ription: (Describe t	o the dept				tor or co	onfirm the absence	of indica	tors.)	
Depth	Matrix			x Featur		1 2	- .			
(inches)	Color (moist)	<u>%</u> _	Color (moist)		Type ¹	Loc ²	Texture	Damai		narks
0-3	10YR 2/1	30					Sandy			masked 10YR 6/1
3-6	10YR 2/1	50					Sandy			masked 10YR 6/1
6-9	10YR 4/1	70					Sandy			15% 10YR 3/1
9-15	10YR 5/1	80	10YR 6/1	10	D	<u>M</u>	Sandy			5/2 Mottles
15-20	10YR 2/2	100					Sandy		Spo	odic
	oncentration, D=Depl					l Grains.	² Location:			
=	ndicators: (Applical	ble to all L							•	dric Soils³:
Histosol	` '		Thin Dark Su	-					(LRR O)	
	ipedon (A2)		Barrier Island		-	12)) (LRR S)	
Black His			(MLRA 15						edox (A16)	
	n Sulfide (A4)		Loamy Muck	•	` , `	RR O)	•	ide MLR	•	
	Layers (A5)		Loamy Gleye					ed Vertic	` '	
	Bodies (A6) (LRR, P,		Depleted Ma	` '			•		A 150A, 15	<i>'</i>
	cky Mineral (A7) (LR		Redox Dark		` '					(F19) (LRR P, T)
	esence (A8) (LRR U)		Depleted Da		` '			_		in Soils (F20)
	ck (A9) (LRR P, T)		Redox Depre		(F8)		•	(A 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L						erial (F21)	
Thick Da	rk Surface (A12)		Depleted Oc					nallow Da	ark Surface	(F22)
	airie Redox (A16) (M								•	A in FL, 154)
	ucky Mineral (S1) (L l	RR O, S)	Umbric Surfa							a Matrix (TS7)
	leyed Matrix (S4)		Delta Ochric				•	A 153B,	,	
	edox (S5)		Reduced Ve	•	, ,		· — `	Explain ir	n Remarks)	
	Matrix (S6)		Piedmont Flo							
	face (S7) (LRR P, S,		Anomalous E	•	•	•				
	e Below Surface (S8))	(MLRA 14					•		egetation and
(LRR S	S, T, U)		Very Shallow		`	,	wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturb	ed or probl	ematic.
	ayer (if observed):									
· · -	None						Hydric Soil Prese	m+2	Yes	No. v
Depth (in							Hydric 30ii Prese	***************************************	162	Nox
Remarks:	ne plot is bedded and	furrowed	No ovidoneo of ro	cont alto	ration					
Area within ti	ie piot is bedded and	i iuiioweu.	ino evidence or rec	seni ane	rauori.					



W16_UD1



Project/Site: Trail Ridge South	City/County:	Bradford Sampling Date: 11/29/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W18_WD1
Investigator(s): D. LeJeune, B. McGee	Section, Township	o, Range: 13, -7, 22
Landform (hillside, terrace, etc.): depression	Local relief (concave	e, convex, none): concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15	•	Long: -82° 03' 32.16" Datum: WGS 84
Soil Map Unit Name: Mascotte sand, 0 to 2 p	 !	NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year?	es x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed? Are '	"Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrok	· · · · · · · · · · · · · · · · · · ·	eeded, explain any answers in Remarks.)
		nt locations, transects, important features, etc.
	Yes x No Is the Sample	
1	Yes x No within a Wetl	
li	Yes x No	<u> </u>
Remarks:		
inches of rainfall was recorded at the site dur some areas the furrows may intercept the se	ring the prior week. The site has been histo asonal high water table resuting in wetland ave been constructed perpendicular to the sl	thes above average for the prior 12 months. An average 0.65 brically converted to pine plantation and has beds/furrows. In vegetation within the furrow, however upland plants remain on lope per silviculture BMPs. Since furrows are constructed periods.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots	s (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (0	C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	x Geomorphic Position (D2)
Iron Deposits (B5)	x Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		x Sphagnum Moss (D8) (LRR T,U)
Field Observations:		
Surface Water Present? Yes	No x Depth (inches):	
Water Table Present? Yes	No x Depth (inches):	
Saturation Present? Yes	No x Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspect	ions), if available:
Remarks:		
	silviculture practices. It is expected that dur	ring the wet season the water table is present with in the top

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

VEGETATION (Four Strata) – Use scie	ntific names o	of plants.		Sampling Point: <u>W18_WD1</u>
<u>Tree Stratum</u> (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3.				`` <i>`</i>
4.	_			Total Number of Dominant Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8.	_			Total % Cover of: Multiply by:
		=Total Cover		OBL species 8 x 1 = 8
50% of total cover:	20%	of total cover:		FACW species 15 x 2 = 30
Sapling/Shrub Stratum (Plot size: 10m x 10m)			FAC species 27 x 3 = 81
1. Ilex myrtifolia	<u></u>	Yes	FACW	FACU species 2 x 4 = 8
Persea palustris	1	No	FACW	UPL species 0 x 5 = 0
3. Ilex coriacea	1	No	FACW	Column Totals: 52 (A) 127 (B)
4.				Prevalence Index = B/A = 2.44
5.				Hydrophytic Vegetation Indicators:
6.	_			1 - Rapid Test for Hydrophytic Vegetation
7.	_			X 2 - Dominance Test is >50%
8.	_			X 3 - Prevalence Index is ≤3.0 ¹
	14 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:		of total cover:	3	
Herb Stratum (Plot size: 10m x 10m)				
1. Andropogon virginicus	13	Yes	FAC	1 Indicators of budgin pail and watland budgelogy must be
Euthamia caroliniana	5	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Solidago fistulosa	3	No	FAC	Definitions of Four Vegetation Strata:
Eupatorium capillifolium		No	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Diodia virginiana		No	FACW	more in diameter at breast height (DBH), regardless of
Lycopodiella appressa	_ <u> </u>	No	OBL	height.
7. Xyris		No	OBL	
8. Lachnanthes caroliniana		No	OBL	Sapling/Shrub – Woody plants, excluding vines, less
9. Morella cerifera	- -	No	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Panicum hemitomon	3	No	OBL	
11. Dichanthelium scabriusculum		Yes	FAC	Herb – All herbaceous (non-woody) plants, regardless
12.		165	TAC	of size, and woody plants less than 3.28 ft tall.
12.		Total Cover		Mandy Vine All woody vines greater than 2.29 ft in
F00/ of total acress			0	Woody Vine – All woody vines greater than 3.28 ft in height.
50% of total cover:		of total cover:	8	
Woody Vine Stratum (Plot size: 10m x 10m)			
1.				
2.				
3				
4				
5	_			Hydrophytic
	=	=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes X No No
Remarks: (If observed, list morphological adapta	itions below)			•

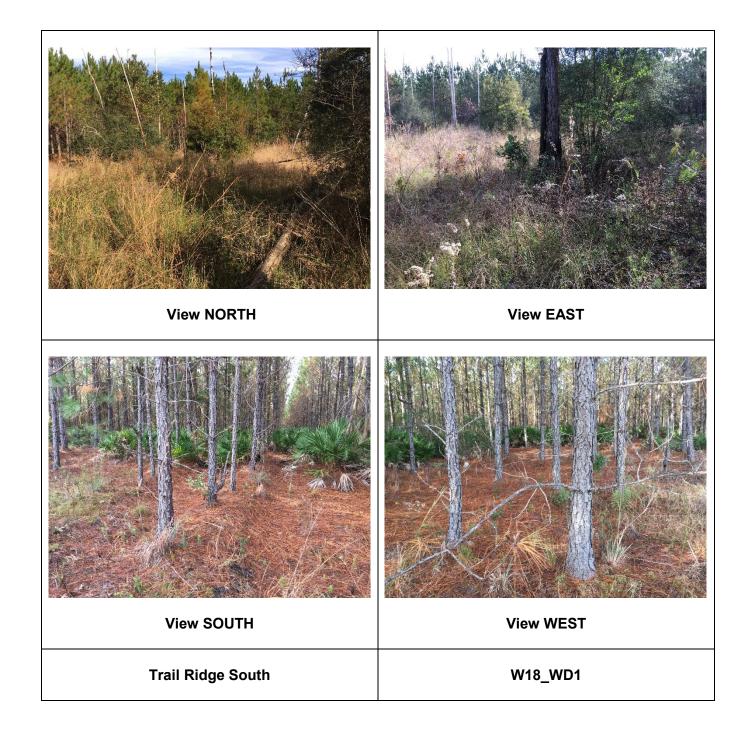
Planted Pinus elliottii makes up the canopy with 25% cover. Not included in calculations because it was planted. Historic cypress canopy that has been eliminated due to fire. No woody vines observed in plot.

SOIL Sampling Point: W18_WD1

	ription: (Describe to	o the dept				ator or co	onfirm the absence of	of indicators.)	
Depth	Matrix			Featur		. 2	- .		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-4	10YR 3/1	60	10YR 5/1	40	<u>D</u>	M	Sandy		
4-11	10YR 3/1	50	10YR 5/1	48	D	M	Sandy	Remaining 2% masked 10YR 2/1	
11-22	10YR 3/1	40	10YR 5/1	60	D	M	Sandy		
	ncentration, D=Deple					d Grains.		PL=Pore Lining, M=Matrix.	
=	ndicators: (Applicat	ole to all L				C T II)		for Problematic Hydric Soils ³ :	
Histosol (Thin Dark Su					uck (A9) (LRR O)	
	ipedon (A2)		Barrier Island			12)		uck (A10) (LRR S)	
Black His			(MLRA 15: Loamy Muck			DD ()\		Prairie Redox (A16) ide MLRA 150A)	
	Sulfide (A4)		<u> </u>	,	· , ·	.KK U)	•	•	
	Layers (A5)	T 11\	Loamy Gleye					d Vertic (F18)	
	Bodies (A6) (LRR, P,		Depleted Mai	` ,			•	ide MLRA 150A, 150B)	
	cky Mineral (A7) (LRI	K P, 1, U)	Redox Dark S Depleted Dar		. ,			nt Floodplain Soils (F19) (LRR P, T) ous Bright Floodplain Soils (F20)	
	esence (A8) (LRR U)				` '			A 153B)	
	ck (A9) (LRR P, T) Below Dark Surface	(A11)	Redox Depre		(6)		*	rent Material (F21)	
	rk Surface (A12)	(A11)	Depleted Oct		1) /MI D	\ 151\		nallow Dark Surface (F22)	
	airie Redox (A16) (M I	I DA 150A						ide MLRA 138, 152A in FL, 154)	
	ucky Mineral (S1) (LF		Umbric Surfa					Islands Low Chroma Matrix (TS7)	
	leyed Matrix (S4)	(I(O, O)	Delta Ochric					A 153B, 153D)	
	edox (S5)		Reduced Ver				*	Explain in Remarks)	
x Stripped	` '		Piedmont Flo	•	, ,		· — `	zapiam in Nemarka)	
	face (S7) (LRR P, S ,	T 11)	Anomalous E						
	e Below Surface (S8)		(MLRA 149	-	•	•	•	ors of hydrophytic vegetation and	
	5, T, U)		Very Shallow				wetland hydrology must be present,		
(Zitire	, , , , ,		(MLRA 138		•	,		es disturbed or problematic.	
Restrictive L	ayer (if observed):								
Type: 1	None								
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No	
Remarks:									
Area within th	e plot is bedded and	furrowed.	No evidence of rec	ent soil	alteratio	n.			



W18_WD1



Project/Site: Trail Ridge South	City/County: Bra	adford Sampling Date: 11/29/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W18_UD1
Investigator(s): D. LeJeune, B. McGee	Section, Township, R	dange: 13, -7, 22
Landform (hillside, terrace, etc.): terrace	Local relief (concave, co	onvex, none): none Slope (%): 0-2%
Subregion (LRR or MLRA): LRR T, MLRA 15		ong: -82° 03' 32.26" Datum: WGS 84
Soil Map Unit Name: Macotte sand, 0 to 2 pe		NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes_	x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	– ogy significantly disturbed? Are "No	ormal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrok		led, explain any answers in Remarks.)
<u> </u>		ocations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No x Is the Sampled	Area
	Yes No $\frac{x}{x}$ within a Wetland	
	Yes x No	
Remarks:		
inches of rainfall was recorded at the site dur some areas the furrows may intercept the sea the bed. Beds and furrows in some areas ha	ing the prior week. The site has been historica asonal high water table resuting in wetland veg	s above average for the prior 12 months. An average 0.65 ally converted to pine plantation and has beds/furrows. In getation within the furrow, however upland plants remain on e per silviculture BMPs. Since furrows are constructed riods.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7))	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)
Field Observations:		
Surface Water Present? Yes	No x Depth (inches):	
Water Table Present? Yes	No x Depth (inches):	
Saturation Present? Yes	No x Depth (inches): We	etland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspection	s), if available:
Pomorko:		
Remarks: The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It iis expected that during	g the wet season the water table is present within the top

 VEGETATION (Four Strata) – Use scientific names of plants.
 Sampling Point:
 W18_UD1

Tree Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 1 (B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		=Total Cover		OBL species 0 x 1 = 0
50% of total cover:	20%	of total cover:		FACW species 5 x 2 = 10
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species4 x 3 =12
Serenoa repens	50	Yes	FACU	FACU species 50 x 4 = 200
2. Ilex glabra	5	No	FACW	UPL species 2 x 5 = 10
3.				Column Totals: 61 (A) 232 (B)
4.				Prevalence Index = B/A = 3.80
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:26	8 20%	of total cover:	11	
Herb Stratum (Plot size: 10m x 10m)				
1. Cladonia sp.	2	No	UPL	¹ Indicators of hydric soil and wetland hydrology must be
2. <u>Dichanthelium dichotomum</u>	2	<u>No</u>	FAC	present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of height.
6				noight.
7.				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				
10.				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12				
		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in height.
50% of total cover: 2	20%	of total cover:	1	Holght.
Woody Vine Stratum (Plot size: 10m x 10m)	0	NI.	540	
1. <u>Vitis rotundifolia</u>	2	No	FAC	
2.				
3.				
4.				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:1	20%	of total cover:	1	Present? Yes No x
Remarks: (If observed, list morphological adaptation Planted Pinus elliottii makes up the canopy with 80%	,	included in cal	culations bed	cause it was planted.

SOIL Sampling Point: W18_UD1

		o the dep				ator or co	onfirm the absence o	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Rem	arke	
,			Color (moist)		Туре					
0-7	10YR 5/1	98					Sandy	Remaining 2% m	asked TUYR 2/1	
7-22	10YR 5/1	80	10YR 6/1	20	D	<u>M</u>	Sandy			
¹ Type: C=Co	ncentration, D=Deple	etion RM=	Reduced Matrix M		ked Sand		² l ocation: F	L=Pore Lining, M=N	Matrix	
	ndicators: (Applicat					J Grains.		or Problematic Hy		
Histosol (Thin Dark Su			S, T, U)		uck (A9) (LRR O)		
	ipedon (A2)		Barrier Island	•	, ,			uck (A10) (LRR S)		
Black His			(MLRA 15			•	Coast P	rairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outsi	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(outsi	ide MLRA 150A, 15	0B)	
5 cm Mud	cky Mineral (A7) (LR l	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)	
	esence (A8) (LRR U)		Depleted Da					ous Bright Floodplai	n Soils (F20)	
	ck (A9) (LRR P, T)		Redox Depre		(F8)		•	A 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L					rent Material (F21)		
	rk Surface (A12)		Depleted Oc					allow Dark Surface	` '	
	airie Redox (A16) (M							ide MLRA 138, 152		
	ucky Mineral (S1) (LI	KK (J, S)	Umbric Surfa					Islands Low Chroma	Matrix (157)	
	leyed Matrix (S4) edox (S5)		Delta Ochric Reduced Ve					A 153B, 153D) Explain in Remarks)		
	Matrix (S6)		Piedmont Flo					zapiaiii iii itemaiks <i>j</i>		
	face (S7) (LRR P, S,	T U)	Anomalous E							
	e Below Surface (S8)		(MLRA 14	-				ors of hydrophytic ve	egetation and	
			Very Shallow				wetland hydrology must be present,			
			(MLRA 13			•		s disturbed or proble	-	
Restrictive L	ayer (if observed):									
Type: 1	None									
Depth (in	ches):						Hydric Soil Prese	nt? Yes	No x	
Remarks:										
Area within th	ne plot is bedded and	furrowed.	No evidence of red	cent soil	alteratio	n.				



W18_UD1



Project/Site: Trail Ridge South	City/County: Clay	Sampling Date: <u>02/01/19</u>				
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL Sampling Point: W19_WD				
Investigator(s): N. Adams, D. Sank	Section, Township, Range	19, -7, 23				
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex	, none): <u>concave</u> Slope (%): <u>0</u>				
Subregion (LRR or MLRA): LRR T, MLRA 15	3A Lat: 29° 52' 15.28"N Long:	-82° 2' 40.56"W Datum: WGS 84				
Soil Map Unit Name: Allanton and Rutlege m	ucky fine sands, depressional	NWI classification: Upland				
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "Normal	Circumstances" present? Yes X No				
Are Vegetation , Soil , or Hydrold		xplain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing sampling point locat	ions, transects, important features, etc.				
Hydrophytic Vegetation Present?	res X No Is the Sampled Area					
1	/es X No within a Wetland?	Yes X No				
I -	/es X No					
Remarks: Rainfall conditions for Clay County were high- inches of rainfall was recorded at the site dur		ve average for the prior 12 months. An average 1.86				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)				
X Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3)					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)		X Sphagnum Moss (D8) (LRR T,U)				
Field Observations:	No. Double (inches)					
Surface Water Present? Yes X	No Depth (inches):4					
Water Table Present? Yes Saturation Present? Yes	No X Depth (inches): Wetland	I Hydrology Present? Yes X No				
(includes capillary fringe)	Wettand	Trydrology Present: Tes NO				
	itoring well, aerial photos, previous inspections), if	available:				
(3 3 7	3 / 1 /1 //					
Remarks:						

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

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus palustris	5	Yes	FACU	Number of Dominant Species
2. Pinus elliottii	5	Yes	FACW	That Are OBL, FACW, or FAC:5 (A)
3				Total Number of Dominant
4				Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 83.3% (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	10=	Total Cover		OBL species 38 x 1 = 38
50% of total cover: 5	20%	of total cover:	2	FACW species 37 x 2 = 74
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species14 x 3 =42
1. Morella cerifera	10	Yes	FAC	FACU species6 x 4 =24
2. Lyonia lucida	20	Yes	FACW	UPL species0 x 5 =0
3				Column Totals: 95 (A) 178 (B)
4.				Prevalence Index = B/A = 1.87
5.				Hydrophytic Vegetation Indicators:
6.		·		1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
	30 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 15		of total cover:	6	
Herb Stratum (Plot size: 10m x 10m)		or total cover.		
1. Lyonia lucida	5	No	FACW	4
	5	No No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	15	Yes	OBL	Definitions of Four Vegetation Strata:
	2			
4. Andropogon virginicus		No No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Pteridium aquilinum		No No	FACU	height.
6. Scirpus cyperinus	5	No No	OBL	3
7. Xyris elliottii	15	Yes	OBL	Sapling/Shrub – Woody plants, excluding vines, less
8. <u>Ludwigia leptocarpa</u>	1	No No	OBL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9. Solidago fistulosa	1	No	FAC	
10. Nymphaea odorata	2	<u>No</u>	OBL	Herb – All herbaceous (non-woody) plants, regardless
11. Vaccinium corymbosum	2	<u>No</u>	FACW	of size, and woody plants less than 3.28 ft tall.
12				
		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 27	20%	of total cover:	11	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Vitis rotundifolia	1	No	FAC	
2.				
3.				
4.				
5.				the decorate 4th
0.				
·	1 =	Total Cover		Hydrophytic
		=Total Cover	1	Vegetation Present? Yes X No
50% of total cover:1	20%		1	Vegetation
	20%		1	Vegetation
50% of total cover:1	20%		1	Vegetation
50% of total cover:1	20%		1	Vegetation

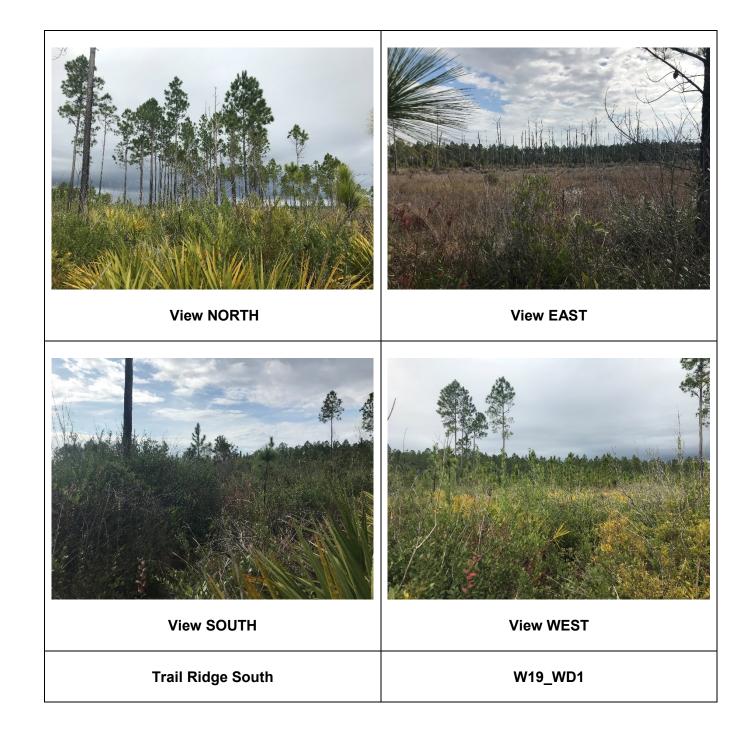
Sampling Point: W19_WD1

SOIL Sampling Point: W19_WD1

	ription: (Describe to	o the depti				tor or co	onfirm the absence	of indicators.)		
Depth	Matrix			K Featur		. 2				
(inches)	Color (moist)	<u></u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks		
0-6.5	10YR 2/1	<u>75</u> _				—	Sandy	Remaining soil unmasked 10YR 6/1		
6.5-10	10YR 4/1	65					Sandy	Remaining soil unmasked 10YR 6/1		
10-12	10YR 6/1	30				<u> </u>	Sandy	Remaining soil unmasked 10YR 7/1		
			-							
¹Type: C=Co	oncentration, D=Deple	—— — etion, RM=F	Reduced Matrix, M	 IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applicat	ole to all LI	RRs, unless othe	rwise n	oted.)			for Problematic Hydric Soils ³ :		
Histosol			Thin Dark Su			S, T, U)	1 cm N	Muck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	— (outs	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma					side MLRA 150A, 150B)		
	cky Mineral (A7) (LRI		Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)			alous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)			RA 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L		` ,		Red Pa	arent Material (F21)		
	rk Surface (A12)	` ,	Depleted Oc		1) (MLR /	A 151)	Very S	Very Shallow Dark Surface (F22)		
	airie Redox (A16) (M	LRA 150A)						side MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (LF	,	Umbric Surfa		•	, ,	,	Islands Low Chroma Matrix (TS7)		
	leyed Matrix (S4)	-, -,	Delta Ochric				(MLRA 153B, 153D)			
	edox (S5)		Reduced Ve	. , .		•	, ,			
	Matrix (S6)		Piedmont Flo	,	, ,		· —	(2) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3		
	face (S7) (LRR P, S,	T U)	Anomalous E							
	e Below Surface (S8)		(MLRA 14	-				tors of hydrophytic vegetation and		
	5, T, U)		Very Shallow					and hydrology must be present,		
(LIUI	5, 1, 5,		(MLRA 13		`	,		ess disturbed or problematic.		
Restrictive L	ayer (if observed):									
Type: I	None									
Depth (in	iches):						Hydric Soil Prese	ent? Yes X No		
Remarks:										
Soil boring is	terminated at 12 inch	nes due to l	high water table. N	lo evide	ence of re	cent soil a	alteration.			



W19_WD1



Project/Site: Trail Ridge South	City/County: Clay	s	Sampling Date: <u>02/01/19</u>			
Applicant/Owner: The Chemours Compan	y FC, LLC	State: FL S	Sampling Point: W19_UD1			
Investigator(s): N. Adams, D. Sank	Section, Township, Range:	19, -7, 23				
Landform (hillside, terrace, etc.): terrace	Local relief (concave, convex	none): convex	Slope (%): 0-1			
Subregion (LRR or MLRA): LRR T, MLRA 153	3A Lat: 28° 52' 15.64"N Long:	-82° 2' 41.14"W	Datum: WGS 84			
Soil Map Unit Name: Allanton and Rutlege mu	 -	NWI classification	_			
Are climatic / hydrologic conditions on the site	· ·		plain in Remarks.)			
Are Vegetation, Soil, or Hydrold	· · · · · · · · · · · · · · · · · · ·	Circumstances" present?	Yes X No			
Are Vegetation , Soil , or Hydrold		κplain any answers in Rem	arks.)			
	site map showing sampling point locat	ions, transects, imp	ortant features, etc.			
Hydrophytic Vegetation Present?	es No X Is the Sampled Area					
	/es No X within a Wetland?	Yes I	No X			
	es X No					
Remarks: Rainfall conditions for Clay County were higher inches of rainfall was recorded at the site duri	er than normal for January and are 5.94 inches aboring the prior week.	ve average for the prior 12	months. An average 1.86			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks	(B6)			
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated	Concave Surface (B8)			
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (E	•			
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B1	•			
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water T				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C	·			
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2) Shallow Aguitard (D3)				
X Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)				
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)		Sphagnum Moss (D	,			
Field Observations:		Opinagrium woss (Di	O) (LIKIC 1,0)			
	No. Y. Donth (inches):					
	No X Depth (inches): 6					
Saturation Present? Yes X		Hydrology Present?	Yes X No			
(includes capillary fringe)		,				
	itoring well, aerial photos, previous inspections), if	available:				
Remarks:						

Tree Stratum (Diet size) 10m v 10m	Absolute % Cover	Dominant Species?	Indicator	Deminence Test weeksheet:
Tree Stratum (Plot size: 10m x 10m)		Species?	Status	Dominance Test worksheet:
1. Pinus palustris	10	Yes	<u>FACU</u>	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata: 6 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	10:	=Total Cover		OBL species0 x 1 =0
50% of total cover:5	20%	of total cover:	2	FACW species 72 x 2 = 144
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 5 x 3 = 15
1. Serenoa repens	40	Yes	FACU	FACU species 65 x 4 = 260
2. Ilex coriacea	60	Yes	FACW	UPL species 0 x 5 = 0
3. Ilex glabra	10	No	FACW	Column Totals: 142 (A) 419 (B)
4.				Prevalence Index = B/A = 2.95
5.				Hydrophytic Vegetation Indicators:
6.				
		<u> </u>		1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:55	20%	of total cover:	22	
Herb Stratum (Plot size: 10m x 10m)				
1. Pteridium aquilinum	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be
2. Vaccinium myrsinites	5	Yes	FACU	present, unless disturbed or problematic.
3. Vaccinium corymbosum	2	No	FACW	Definitions of Four Vegetation Strata:
4. Dichanthelium dichotomum	5	Yes	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				
8.				Sapling/Shrub – Woody plants, excluding vines, less
9.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
10.				
				Herb – All herbaceous (non-woody) plants, regardless
12.				of size, and woody plants less than 3.28 ft tall.
12.	22	=Total Cover		Manda Vine All was deviced a greater than 2 20 ft in
500/ 51 1			_	Woody Vine – All woody vines greater than 3.28 ft in height.
50% of total cover: 11	20%	of total cover:	5	noight.
Woody Vine Stratum (Plot size: 10m x 10m)				
1				
2				
3				
4				
5				Hydrophytic
	:	=Total Cover		Vegetation
50% of total cover:				=
	20%	of total cover:		Present? Yes No X
Remarks: (If observed list morphological adaptation		of total cover:		Present? Yes No X
Remarks: (If observed, list morphological adaptation No woody vine stratum observed within plot.		of total cover:		Present? Yes No X
Remarks: (If observed, list morphological adaptation No woody vine stratum observed within plot.		of total cover:		Present? Yes No X
, , , , , , , , , , , , , , , , , , , ,		of total cover:		Present? Yes No X
, , , , , , , , , , , , , , , , , , , ,		of total cover:		Present? Yes No X

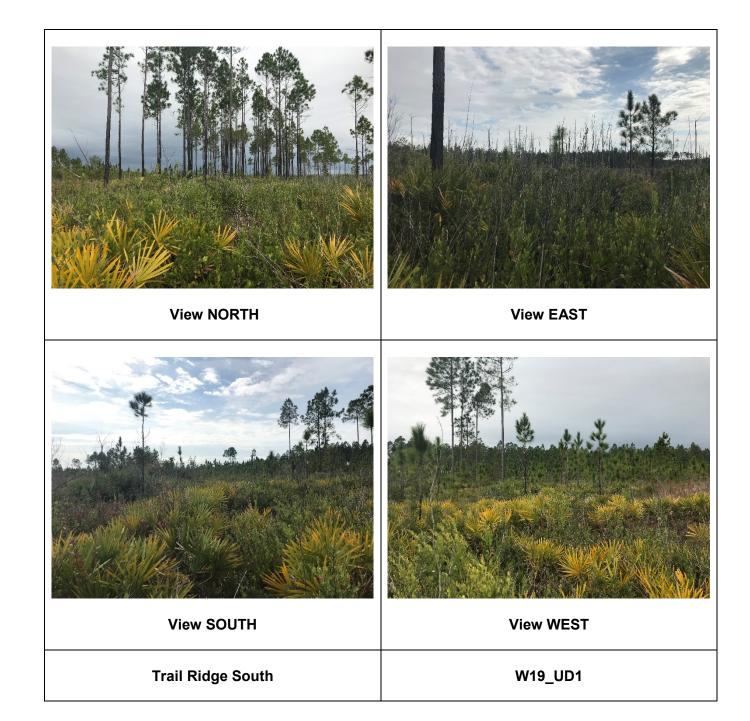
Sampling Point: W19_UD1

SOIL Sampling Point: W19_UD1

	iption: (Describe to	o the dept				ator or co	nfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	0/		Feature		1002	Toytura	Dow	aarka	
(inches)	Color (moist) 10YR 2/1	% 60	Color (moist)		Type ¹	Loc ²	Texture		narks	
7.5-9.5	10YR 4/1	60					Sandy Sandy		masked 10YR 6/1 masked 10YR 6/1	
7.3-9.3	10111 4/1						Sanuy	Remaining soil un	masked 1011X 0/1	
9.5-12	10YR 4/1		10YR 6/1	20		<u>M</u> .	Sandy	Remaining soil un	masked 10YR 5/1	
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	S=Masl	ked Sand	d Grains.		PL=Pore Lining, M=		
Hydric Soil Ir	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hy	dric Soils ³ :	
Histosol (A1)		Thin Dark Su	rface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)		
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm M	fuck (A10) (LRR S)		
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie Redox (A16)		
Hydrogen	Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	.RR O)	(outs	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	d Matrix	(F2)		Reduce	ed Vertic (F18)		
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Mat	trix (F3)			(outs	side MLRA 150A, 15	0B)	
5 cm Muc	ky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils ((F19) (LRR P, T)	
Muck Pre	sence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	llous Bright Floodpla	in Soils (F20)	
1 cm Mud	k (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLF	RA 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Parent Material (F21)			
Thick Dar	k Surface (A12)		Depleted Och	nric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M I	LRA 150A)Iron-Mangan	ese Mas	sses (F12	2) (LRR C	O, P, T) (outside MLRA 138, 152A in FL, 154)			
Sandy Mu	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)			
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (N	/ILRA 15	1)	(MLRA 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 15	,			
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)			
Dark Surf	ace (S7) (LRR P, S,	T, U)	Anomalous E	Bright Flo	oodplain	Soils (F2	0)			
Polyvalue	Below Surface (S8)		(MLRA 149	9A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and			
(LRR S	i, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,			
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.			
	ayer (if observed):									
Type: N	lone									
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No _X	
Remarks:						_				
Soil boring is	terminated at 12 inch	nes due to	high water table. N	lo evide	nce of re	cent soil	alteration.			



W19_UD1



Project/Site: Trail Ridge South	City/County: Clay		Sampling Date: 01/31/19
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL	Sampling Point: W19_WD2
Investigator(s): D. LeJeune, D. Sank	Section, Township, Range:	19, -7, 23	
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex	none): concave	Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15	 3A Lat: 29° 52' 3.32"N Long:	-82° 2' 37.75"W	Datum: WGS 84
Soil Map Unit Name: Leon fine sand, 0-2 per		NWI classification	
Are climatic / hydrologic conditions on the site	·		plain in Remarks.)
Are Vegetation, Soil, or Hydrold	·· —	Circumstances" present?	•
Are Vegetation , Soil , or Hydrold		γplain any answers in Rem	
	site map showing sampling point locat		•
Hydrophytic Vegetation Present?	es X No Is the Sampled Area		
	es X No within a Wetland?	Yes X	No
*	/es X No		
Remarks: Rainfall conditions for Clay County were high- inches of rainfall was recorded at the site dur	er than normal for January and are 5.94 inches aboung the prior week.	ve average for the prior 12	2 months. An average 1.86
HYDROLOGY			· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks	
X Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated	Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B	·
X Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water	Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		n Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Positio	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D	•
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test (I	·
Water-Stained Leaves (B9)		Sphagnum Moss (D	08) (LRR 1,U)
Field Observations:	N		
Surface Water Present? Yes X	No Depth (inches):2		
Water Table Present? Yes Saturation Present? Yes	No X Depth (inches): Wetland	Hydrology Present?	Yes X No
(includes capillary fringe)	Vetiality	riyarology r resent:	165 <u>X</u> 110
	itoring well, aerial photos, previous inspections), if a	available:	
	······································		
Remarks:			

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus elliottii	5	Yes	FACW	Number of Dominant Species
2. Gordonia lasianthus	5	Yes	FACW	That Are OBL, FACW, or FAC: 7 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 7 (B)
5.				`` /
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
·				Prevalence Index worksheet:
7.				
8				Total % Cover of: Multiply by:
		=Total Cover		OBL species65 x 1 =65
50% of total cover:5	20%	of total cover:	2	FACW species 60 x 2 = 120
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 40 x 3 = 120
1. Gordonia lasianthus	10	No	FACW	FACU species0 x 4 =0
2. Ilex glabra	20	Yes	FACW	UPL species0 x 5 =0
3. Vaccinium corymbosum	20	Yes	FACW	Column Totals: 165 (A) 305 (B)
4. Andropogon virginicus	40	Yes	FAC	Prevalence Index = B/A = 1.85
5.				Hydrophytic Vegetation Indicators:
6.				X 1 - Rapid Test for Hydrophytic Vegetation
·				X 2 - Dominance Test is >50%
7.				1
8				X 3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 45	20%	of total cover:	18	
Herb Stratum (Plot size: 10m x 10m)				
1. Eleocharis baldwinii	30	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Xyris elliottii	15	Yes	OBL	present, unless disturbed or problematic.
3. Woodwardia virginica	10	No	OBL	Definitions of Four Vegetation Strata:
4. Hypericum tetrapetalum	5	No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Eriocaulon compressum	5	No	OBL	more in diameter at breast height (DBH), regardless of
6.				height.
7.				
				Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10				
				Herb – All herbaceous (non-woody) plants, regardless
11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	65 =	=Total Cover		
		=Total Cover	13	of size, and woody plants less than 3.28 ft tall.
12			13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
12			13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
12	3 20%		13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
12	20%		13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
12	20%		13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
12	20%		13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
12	3 20%	of total cover:	13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
12	3 20%		13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
12	20%	of total cover:	13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic
12	20%	of total cover:	13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
12	20%	of total cover:	13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
12	20%	of total cover:	13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
12	20%	of total cover:	13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation
12	20%	of total cover:	13	of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation

Sampling Point: W19_WD2

SOIL Sampling Point: W19_WD2

	ription: (Describe t	o the depti				itor or co	onfirm the absence	of indicators.)
Depth	Matrix			K Featur		. 2	- .	D
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-13	10YR 2/1	100					Sandy	
			_					
								<u></u>
			_					
¹ Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, M	IS=Mas	ked Sand	l Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applical	ole to all Li	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm l	Muck (A9) (LRR O)
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm l	Muck (A10) (LRR S)
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)
Hydroge	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(out	side MLRA 150A)
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ced Vertic (F18)
Organic	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(out	side MLRA 150A, 150B)
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodplain Soils (F19) (LRR P, T)
Muck Pro	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		— Anom	alous Bright Floodplain Soils (F20)
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(ML	RA 153B)
 Depleted	l Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red P	arent Material (F21)
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR /	A 151)	Very S	Shallow Dark Surface (F22)
Coast Pr	rairie Redox (A16) (M	LRA 150A)	Iron-Mangan	ese Ma	sses (F12	2) (LRR C), P, T) (out	side MLRA 138, 152A in FL, 154)
Sandy M	lucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrie	r Islands Low Chroma Matrix (TS7)
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(ML	RA 153B, 153D)
Sandy R	edox (S5)		Reduced Ver				0B) Other	(Explain in Remarks)
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)	
X Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous E					
	e Below Surface (S8)		(MLRA 14	-				ators of hydrophytic vegetation and
	S, T, U)		Very Shallow					land hydrology must be present,
•			(MLRA 13					ess disturbed or problematic.
Restrictive L	_ayer (if observed):							
Type:	None							
Depth (ir	nches):						Hydric Soil Pres	ent? Yes X No
Remarks:								
	terminated at 13 incl	nes due to l	high water table. E	Because	the soil l	boring wa	s terminated is ass	umed that the layer below will have a
chroma of 2						•		•



W19_WD2



Project/Site: Trail Ridge South	City/County: Clay	y Sampling Date: 01/31/19
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W19_UD2
Investigator(s): D. LeJeune, D. Sank	Section, Township, Ra	ange: 19, -7, 23
Landform (hillside, terrace, etc.): terrace	 Local relief (concave, cor	nvex, none): convex Slope (%): 0-1
Subregion (LRR or MLRA): LRR T, MLRA 15		ong: -82° 2' 37.75"W Datum: WGS 84
Soil Map Unit Name: Leon fine sand, 0-2 per		NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes	X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "Norr	mal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrold		ed, explain any answers in Remarks.)
		ocations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No X Is the Sampled A	Area
	Yes No X within a Wetland	
	Yes X No	
Remarks:		
inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows in some areas	ring the prior week. The site has been historical easonal high water table resulting in wetland vego	above average for the prior 12 months. An average 1.86 lly converted to pine plantation and has beds/furrows. In getation within the furrow, however upland plants remain ope per silviculture BMPs. Since furrows are constructed ods.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3	3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7))	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes X	No Depth (inches): 6	
Saturation Present? Yes X		tland Hydrology Present? Yes X No
(includes capillary fringe)		<u> </u>
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections	s), if available:
, , , , ,		•
Remarks: The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected that during	the wet season the water table is present with in the top

<u>Tree Stratum</u> (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 COVEI	Species?	Status	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
8		=Total Cover		Total % Cover of: Multiply by: OBL species 10 x 1 = 10
50% of total cover:		of total cover:		FACW species 35 x 2 = 70
Sapling/Shrub Stratum (Plot size: 10m x 10m)		or total cover.		FAC species 0 x3 = 0
1. Pinus palustris	15	No	FACU	FACU species 95 x 4 = 380
2. Pinus elliottii	5	No	FACW	UPL species 0 x 5 = 0
3. Ilex glabra	30	Yes	FACW	Column Totals: 140 (A) 460 (B)
4. Serenoa repens	45	Yes	FACU	Prevalence Index = B/A = 3.29
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 ¹
	95 :	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 48	20%	of total cover:	19	
Herb Stratum (Plot size: 10m x 10m)				
1. Vaccinium myrsinites	35	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be
2. Eriocaulon compressum	10	Yes	OBL	present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7				Conting/Charle Woody plants evaluating vines less
8				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				3
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				
		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 23	20%	of total cover:	9	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1				
2				
3				
4				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present?
Remarks: (If observed, list morphological adaptation	,			
No canopy or woody vine stratum observed within plo	ot.			

Sampling Point: W19_UD2

SOIL Sampling Point: W19_UD2

	ription: (Describe t	o the dep				ator or co	nfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	 -		x Featur		Loc ²	Toyturo		Domarko	
(inches) 0-8	Color (moist) 10YR 3/1	60	Color (moist)		Type ¹	LOC -	Texture Sandy	Remaining se	Remarks pil unmasked 10YR 6/1	
							Sandy	ixemaining s	Dil dililiasked 10110 0/1	
8-14	10YR 3/1						Sandy	Remaining so	bil unmasked 10YR 6/1	
									_	
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining	, M=Matrix.	
Hydric Soil I	ndicators: (Applical	ble to all I	RRs, unless othe	rwise r	noted.)		Indicators	for Problemati	c Hydric Soils ³ :	
Histosol	(A1)		Thin Dark Su	urface (S	S9) (LRR	S, T, U)	1 cm M	uck (A9) (LRR	O)	
Histic Ep	ipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRF	RS)	
Black His	stic (A3)		(MLRA 15	3B, 153	BD)		Coast F	Prairie Redox (A	A16)	
— Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outs	ide MLRA 150	A)	
Stratified	Layers (A5)		Loamy Gley	ed Matri	x (F2)		Reduce	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	, T, U)	Depleted Ma	trix (F3))		(outs	ide MLRA 150	A, 150B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain S	soils (F19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bright Floo	odplain Soils (F20)	
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		— (MLR	A 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (I	RR U)			Red Pa	rent Material (F	·21)	
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very SI	nallow Dark Sui	face (F22)	
Coast Pr	airie Redox (A16) (M	LRA 150A	N) Iron-Mangan	ese Ma	sses (F12	2) (LRR O	, P, T) (outs	ide MLRA 138	, 152A in FL, 154)	
Sandy M	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Ch	roma Matrix (TS7)	
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	— (MLR	A 153B, 153D)		
Sandy Re	edox (S5)		Reduced Ve	rtic (F18	B) (MLRA	150A, 15	,			
Stripped	Matrix (S6)		Piedmont Fl	oodplair	Soils (F	19) (MLR /	A 149A)			
Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous I	Bright Fl	loodplain	Soils (F20	0)			
Polyvalue	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)		³ Indicat	ors of hydrophy	tic vegetation and	
(LRR S	S, T, U)		Very Shallov	v Dark S	Surface (F	22)	wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.			
	ayer (if observed):									
Type: <u>I</u>	None									
Depth (in	nches):						Hydric Soil Prese	ent? Yes	No <u>X</u>	
Remarks: Soil boring is	terminated at 14 incl	hes due to	high water table. I	No evide	ence of re	cent soil a	alteration.			
· ·			· ·							



W19_UD2



Project/Site: Trail Ridge South		City/County: Clay		Sampling Date: <u>01/31/2019</u>
Applicant/Owner: The Chemours Compar	y FC, LLC		State: FL	Sampling Point: W20_WD1
Investigator(s): D. LeJeune, D. Sank	Sect	tion, Township, Range:	19, -7, 23	<u> </u>
Landform (hillside, terrace, etc.): depression		elief (concave, convex, r		Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15		•	2° 2' 24.32"W	Datum: WGS 84
Soil Map Unit Name: Leon fine sand, 0 to 2 p			NWI classification	
Are climatic / hydrologic conditions on the site	•	Yes X		explain in Remarks.)
	•		rcumstances" present	
Are Vegetation, Soil, or Hydrold			•	
Are Vegetation, Soil, or Hydrold SUMMARY OF FINDINGS – Attach			lain any answers in Re	•
GOWNART OF TINDINGS - Attach	The map showing san	ipinig point locatio	nis, transects, in	portant leatures, etc.
' ' ' "		Is the Sampled Area		
'		within a Wetland?	Yes X	No
Wetland Hydrology Present?	/esXNo			
Remarks: Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ng the prior week. The site hasonal high water table result have been constructed perpe	nas been historically con ing in wetland vegetatior endicular to the slope pe	verted to pine plantation within the furrow, how	on and has beds/furrows. In vever upland plants remain
HYDROLOGY				
Wetland Hydrology Indicators: Primary Indicators (minimum of one is require X Surface Water (A1) High Water Table (A2) Saturation (A3) X Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes X Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	Aquatic Fauna (B13) Marl Deposits (B15) (LRI Hydrogen Sulfide Odor (COXIDITION OF THE PRESENCE OF REDUCED IT OF THE PRESENCE	R U) C1) on Living Roots (C3) on (C4) on Tilled Soils (C6) ks) 2 Wetland H	Surface Soil Crace Sparsely Vegetate Drainage Patterns Moss Trim Lines (Dry-Season Wate Crayfish Burrows Saturation Visible X Geomorphic Posit Shallow Aquitard X FAC-Neutral Test Sphagnum Moss	ed Concave Surface (B8) (B10) (B16) In Table (C2) (C8) In Aerial Imagery (C9) (D3) (D5)
Remarks: The natural landform has been converted for	silviculture practices.			

	Absolute	Dominant	Indicator	
Free Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
L				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:4(A)
3.				Total Number of Dominant
·.				Species Across All Strata: 4 (B)
i.				``
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
·		-		Prevalence Index worksheet:
·				Total % Cover of: Multiply by:
·		=Total Cover		OBL species 40 x 1 = 40
50% of total cover:		of total cover:		FACW species 70 x 2 = 140
apling/Shrub Stratum (Plot size: 10m x 10m				FAC species 5 x 3 = 15
. <u>Ilex glabra</u>	40	Yes	FACW	FACU species 0 x 4 = 0
. Spartina bakeri	30	Yes	FACW	UPL species 0 x 5 = 0
·				Column Totals: 115 (A) 195 (B)
·				Prevalence Index = B/A = 1.70
				Hydrophytic Vegetation Indicators:
				X 1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.0 ¹
	70	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:			14	residing try drop try the vegetation (Explain)
		of total cover:	14	
lerb Stratum (Plot size: 10m x 10m)	35 20%	of total cover:		
lerb Stratum (Plot size: 10m x 10m) . Woodwardia virginica	25	of total cover:	OBL	¹ Indicators of hydric soil and wetland hydrology must b
lerb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi	25 10	of total cover: Yes Yes	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic.
lerb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must b
lerb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii	25 10	of total cover: Yes Yes	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
erb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
erb Stratum (Plot size: 10m x 10m) Woodwardia virginica Rhynchospora tracyi Xyris elliottii Andropogon virginicus	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
lerb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
lerb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
lerb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
lerb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus .	25 10 5	of total cover: Yes Yes No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb Stratum (Plot size: 10m x 10m) Woodwardia virginica Rhynchospora tracyi Xyris elliottii Andropogon virginicus	25 10 5 5	Yes Yes No No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica 2. Rhynchospora tracyi 3. Xyris elliottii 4. Andropogon virginicus 5	25 10 5 5 45	Yes Yes No No Total Cover	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica 2. Rhynchospora tracyi 3. Xyris elliottii 4. Andropogon virginicus 5	25 10 5 5 45	Yes Yes No No	OBL OBL	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Herb Stratum (Plot size: 10m x 10m) Noodwardia virginica Rhynchospora tracyi Andropogon virginicus	25 10 5 5 45	Yes Yes No No Total Cover	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica 2. Rhynchospora tracyi 3. Xyris elliottii 4. Andropogon virginicus 5	25 10 5 5 45	Yes Yes No No Total Cover	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica 2. Rhynchospora tracyi 3. Xyris elliottii 4. Andropogon virginicus 5	25 10 5 5 45	Yes Yes No No Total Cover	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica 2. Rhynchospora tracyi 3. Xyris elliottii 4. Andropogon virginicus 5	25 10 5 5 45	Yes Yes No No Total Cover	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) Woodwardia virginica Rhynchospora tracyi Andropogon virginicus Company of total cover: 2 Woody Vine Stratum (Plot size: 10m x 10m) Company of total cover: 2 Woody Vine Stratum (Plot size: 10m x 10m)	25 10 5 5 45	Yes Yes No No Total Cover	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus	25 10 5 5 45	Yes Yes No No Total Cover	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
Herb Stratum (Plot size: 10m x 10m) Noodwardia virginica Rhynchospora tracyi Andropogon virginicus	25 10 5 5 45 23 20%	Yes Yes No No Total Cover	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
Herb Stratum (Plot size: 10m x 10m) . Woodwardia virginica . Rhynchospora tracyi . Xyris elliottii . Andropogon virginicus	25 10 5 5 5 45 23 20%	Yes Yes No No Total Cover of total cover:	OBL OBL FAC	¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.

within the plot.

SOIL Sampling Point: W20_WD1

	ription: (Describe t	o the dept				tor or co	onfirm the absence	of indicators.)		
Depth	Matrix	- 0/		x Featur		1 2	- .	5 .		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-3	10YR 3/1	80					Sandy	Remaining soil unmasked 10YR 6/1		
3-7	10YR 4/1	90					Sandy	Remaining soil unmasked 10YR 6/1		
7-8	10YR 2/1	100					Sandy			
							_			
							_			
1Typo: C=Co	ncentration, D=Deple		Poducod Matrix M		Lod Sand		² Location:	PL=Pore Lining, M=Matrix.		
	ndicators: (Applicat					i Giailis.		for Problematic Hydric Soils ³ :		
Histosol (Jie to all L	X Thin Dark Su		•	S T II)		luck (A9) (LRR O)		
	ipedon (A2)		Barrier Island					luck (A10) (LRR S)		
Black His			(MLRA 15		-	12)		Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck			PP ()		side MLRA 150A)		
	Layers (A5)		Loamy Gleye	•	· , ·	itit O)	•	ed Vertic (F18)		
	Bodies (A6) (LRR, P,	T 11\	Depleted Ma					ide MLRA 150A, 150B)		
	cky Mineral (A7) (LR I		Redox Dark				•	ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)	K 1 , 1, 0,	Depleted Da					lous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre					kA 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L		(1.0)		•	arent Material (F21)		
	rk Surface (A12)	(,,,,	Depleted Oc		1) (MI RA	151)		hallow Dark Surface (F22)		
	airie Redox (A16) (M	I RA 150A		-				side MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (Li		Umbric Surfa		•	, ,	. , ,	Islands Low Chroma Matrix (TS7)		
	eyed Matrix (S4)	0, 0,	Delta Ochric					(MLRA 153B, 153D)		
	edox (S5)		Reduced Ve	. , .		•		Explain in Remarks)		
	Matrix (S6)		Piedmont Flo	•	, ,		· — `	zapam m remane)		
	face (S7) (LRR P, S,	T U)	Anomalous E		-					
	e Below Surface (S8)		(MLRA 14	_				tors of hydrophytic vegetation and		
(LRR S			Very Shallow				wetland hydrology must be present,			
(., ., .,		(MLRA 13				unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type: 1	None									
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No		
Remarks:										
Soil boring is	terminated at 8 inche	es due to h	igh water table. No	o eviden	ice of rec	ent soil a	Iteration.			



W20_WD1



Project/Site: Trail Ridge South	City/County:	Clay Sampling Date: 01/31/19
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL Sampling Point: W20_UD1
Investigator(s): D. LeJeune, D. Sank	Section, Township	, Range: 19, -7, 23
Landform (hillside, terrace, etc.): hillside	 Local relief (concave,	, convex, none): convex Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 2' 25.22"W Datum: WGS 84
Soil Map Unit Name: Leon fine sand, 0 to 2 p		NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year?	s X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "	Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrold		eeded, explain any answers in Remarks.)
		t locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No X Is the Sample	ed Area
	Yes No X within a Wetl	
	Yes X No	
Remarks:		
inches of rainfall was recorded at the site dur some areas the furrows may intercept the sea	ing the prior week. The site has been histon asonal high water table resulting in wetland shave been constructed perpendicular to the	hes above average for the prior 12 months. An average 1.86 rically converted to pine plantation and has beds/furrows. In vegetation within the furrow, however upland plants remain e slope per silviculture BMPs. Since furrows are constructed periods.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots	
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	•	Sphagnum Moss (D8) (LRR T,U)
Field Observations:		_
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes X	No Depth (inches): 10	
Saturation Present? Yes X	No Depth (inches): 10	Wetland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	a illui a vitta una una ati a a a	
The natural landform has been converted for	silviculture practices.	

ot size: 10m v 10m)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
t size	70 00001	ороско:	Otatas	
				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant Species Across All Strata: 4 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
	=	Total Cover		OBL species 0 x 1 = 0
50% of total cover:	20%	of total cover:		FACW species 52 x 2 = 104
tum (Plot size: 10m x 10m)			FAC species 0 x 3 = 0
s	45	Yes	FACU	FACU species 60 x 4 = 240
	50	Yes	FACW	UPL species 2 x 5 = 10
ymbosum	2	No	FACW	Column Totals: 114 (A) 354 (B)
aretta	2	No	UPL	Prevalence Index = B/A = 3.11
				Hydrophytic Vegetation Indicators:
	_			1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
	99 =	Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:			20	
		• • • • • • • • • • • • • • • • • • • •		
	10	Yes	FACU	1. Postano di livela a cil and continud hadrologia materia
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
nonghonus		100	1700	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				height.
				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
			_	Woody Vine – All woody vines greater than 3.28 ft in
	8 20%	of total cover:	3	height.
<u>m</u> (Plot size: 10m x 10m)				
				Hydrophytic
	=	Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes No X
ved, list morphological adaptation	ons below.)			
	tum (Plot size: 10m x 10m s s s s s s s s s s s s s s s s s s s	Solve 10m x 10m	Species? Species. Species.	Status 10m x 10m % Cover Species? Status

Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vine stratum observed within plot.

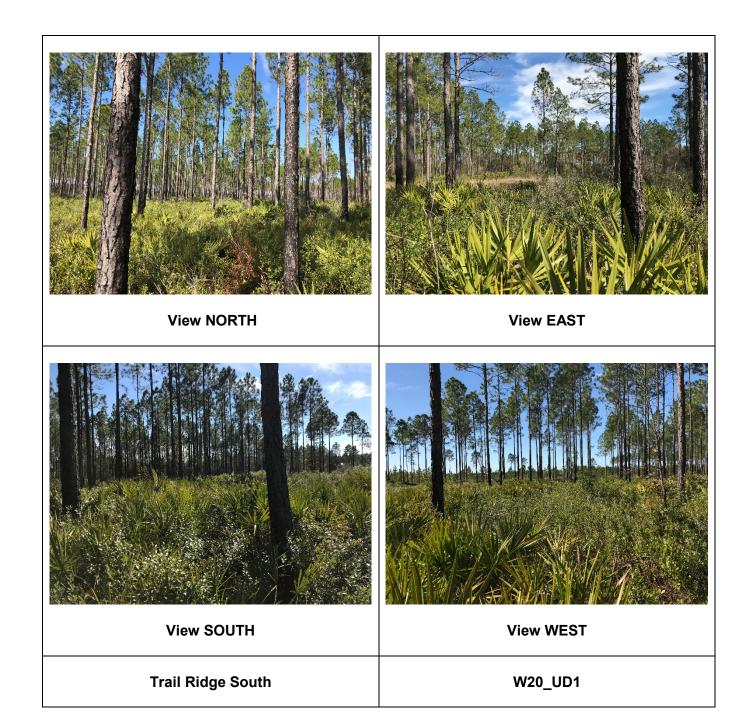
Sampling Point: W20_UD1

SOIL Sampling Point: W20_UD1

	ription: (Describe t	o the dep				itor or co	onfirm the absence	of indicators.)			
Depth	Matrix Color (moist)	0/		Feature		1002	Toytura	Dow	aarka		
(inches) 0-3	Color (moist) 10YR 5/1	<u>%</u> -	Color (moist)		Type ¹	Loc ²	Texture Sandy	-	marks masked 10YR 6/1		
3-8	10YR 4/1	65	10YR 6/1	 5			Sandy		masked 10YR 5/1		
							Carray	Tremaining sen un	masked forth of t		
8-17	10YR 4/1		10YR 6/1			<u>M</u>	Sandy	Remaining soil un	masked 10YR 5/1		
¹ Type: C=Co	 ncentration, D=Deple	 etion. RM=	Reduced Matrix. M	S=Masl	ed Sand	Grains.	2Location:	PL=Pore Lining, M=	Matrix.		
	ndicators: (Applicat							for Problematic Hy			
Histosol (Thin Dark Su			S, T, U)		Muck (A9) (LRR O)			
	pedon (A2)		Barrier Island					Muck (A10) (LRR S)			
Black His			(MLRA 153		-	,		Prairie Redox (A16)			
	Sulfide (A4)		Loamy Mucky			RR O)		side MLRA 150A)			
	Layers (A5)		Loamy Gleye	•	` ' '	,	•	ed Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	Depleted Mat					side MLRA 150A, 15	0B)		
	cky Mineral (A7) (LR		Redox Dark S				Piedmo	ont Floodplain Soils ((F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	alous Bright Floodpla	in Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLRA 153B)				
 Depleted	Below Dark Surface	(A11)	 Marl (F10) (L	RR U)			Red Parent Material (F21)				
Thick Dar	rk Surface (A12)		Depleted Och	nric (F1	1) (MLR /	A 151)	Very Shallow Dark Surface (F22)				
Coast Pra	airie Redox (A16) (M	LRA 150A	N) Iron-Mangane	ese Mas	sses (F12	2) (LRR C	D, P, T) (outs	side MLRA 138, 152	A in FL, 154)		
Sandy Mu	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ric Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Matrix (TS							
Sandy Gl	eyed Matrix (S4)		Delta Ochric	Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 15	Other (Explain in Remarks)				
Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Surf	face (S7) (LRR P, S,	T, U)	Anomalous B	right Flo	oodplain	Soils (F2	0)				
Polyvalue	e Below Surface (S8)		(MLRA 149	A, 1530	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	s, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,				
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: <u>N</u> Depth (in	None ches):						Hydric Soil Prese	ent? Yes	No X		
Remarks:	/						, , , , , , , , , , , , , , , , , , , ,	_			
	terminated at 17 incl	nes due to	high water table. A	rea with	nin the pl	ot is bedo	led and furrowed. No	evidence of recent	soil alteration.		



W20_UD1



Project/Site: Trail Ridge South	Ci	ty/County: Bradford		Sampling Date: 12/5/18			
Applicant/Owner: The Chemours Compar	ny FC, LLC		State: FL	Sampling Point: W21-WD1			
Investigator(s): D. Sank, D. LeJeune	Section	n, Township, Range: 13, -	7, 22				
Landform (hillside, terrace, etc.): depression	Local relie	ef (concave, convex, none)): concave	Slope (%): 0			
Subregion (LRR or MLRA): LRR T, MLRA 15	•	Long: -82° 03	•	Datum: WGS 84			
Soil Map Unit Name: Leon sand, 0 to 2 perce	· ·		NWI classificati				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No	o (If no, e	xplain in Remarks.)			
Are Vegetation, Soil, or Hydrole	ogy significantly disturbed	d? Are "Normal Circum	nstances" present?	Yes X No			
Are Vegetation, Soil, or Hydrol							
SUMMARY OF FINDINGS – Attach			-	•			
		the Sampled Area					
1		thin a Wetland?	Yes X	No			
1	Yes X No	tilli a rrodat	<u> </u>				
Remarks:							
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows have dominantly been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.							
HYDROLOGY							
Wetland Hydrology Indicators:	that apply)			minimum of two required)			
Primary Indicators (minimum of one is required Water (A1)			Surface Soil Crack				
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) (LRR I		Sparsely vegetated Drainage Patterns	d Concave Surface (B8)			
Saturation (A3)	Hydrogen Sulfide Odor (C1		Moss Trim Lines (E				
Water Marks (B1)	Oxidized Rhizospheres on I		Dry-Season Water				
Sediment Deposits (B2)	Presence of Reduced Iron (Crayfish Burrows (
Drift Deposits (B3)	Recent Iron Reduction in Ti	· ·		on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position				
Iron Deposits (B5)	X Other (Explain in Remarks)		Shallow Aquitard (I				
Inundation Visible on Aerial Imagery (B7)	<u> </u>	FAC-Neutral Test ((D5)			
Water-Stained Leaves (B9)		;	Sphagnum Moss (I	D8) (LRR T,U)			
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):	Wetland Hydro	ology Present?	Yes <u>X</u> No			
(includes capillary fringe)	 						
Describe Recorded Data (stream gauge, more Not available	nitoring well, aerial photos, previ	ous inspections), if availab	le:				
Remarks:							
The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expense	cted tht during the wet sea	son the water table	is present with in the top			

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

		Absolute	Dominant	Indicator	1	
<u>Tree Stratum</u> (Plot size: 10	0m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:	
)	70 OOVCI	Орескоз:	Otatus		
l					Number of Dominant Species	
2					That Are OBL, FACW, or FAC:	(A)
3					Total Number of Dominant	
1					Species Across All Strata:	3 (B)
5.					Percent of Dominant Species	
<u></u> 3.					That Are OBL, FACW, or FAC:	66.7% (A/B
7.					Prevalence Index worksheet:	(12
3.			•			Multiply by
). 						Multiply by:
			Total Cover		OBL species 20 x 1	
50%	% of total cover:	20%	of total cover:		FACW species 3 x 2	= 6
Sapling/Shrub Stratum (Plot s	size: 10m x 10m)				FAC species 20 x 3 :	=60
I. Serenoa repens		2	No	FACU	FACU species 4 x 4	= 16
2					UPL species 15 x 5	= 75
3.					Column Totals: 62 (A)	177 (B
					, ,	
ł					Prevalence Index = B/A =	2.85
j					Hydrophytic Vegetation Indicator	s:
S					1 - Rapid Test for Hydrophytic	√egetation
7					X 2 - Dominance Test is >50%	
3.					X 3 - Prevalence Index is ≤3.0 ¹	
		2	Total Cover		Problematic Hydrophytic Veget	ation ¹ (Explain)
50%	% of total cover: 1		of total cover:	1		
	-		or total cover.			
Herb Stratum (Plot size: 10	om x rom)		.,	0.01		
Woodwardia virginica		20	Yes	OBL	¹ Indicators of hydric soil and wetlan	
2. <u>Dichanthelium dichotomu</u>	m	20	Yes	FAC	present, unless disturbed or probler	natic.
3. Cladonia sp.		15	Yes	UPL	Definitions of Four Vegetation St	rata:
Vaccinium myrsinites		2	No	FACU	Tree – Woody plants, excluding vin	es. 3 in. (7.6 cm) o
5. Andropogon glomeratus		3	No	FACW	more in diameter at breast height (I	
).					height.	
·	_					
7						
					Sapling/Shrub – Woody plants, ex	
3.					Sapling/Shrub – Woody plants, ex than 3 in. DBH and greater than 3.2	
3.						
3.					than 3 in. DBH and greater than 3.2	28 ft (1 m) tall.
0. 0.					than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody)	28 ft (1 m) tall.) plants, regardless
3. 9. 0. 1.					than 3 in. DBH and greater than 3.2	28 ft (1 m) tall.) plants, regardless
3. 9. 10.			-Total Cover		than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3. 9. 10. 11.	/ · · · · · · · · · · · · · · · · · · ·		=Total Cover		than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greater	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3. 9. 10. 11. 12.	% of total cover:3		=Total Cover	12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3. 9. 10. 11. 12.				12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greater	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3				12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greater	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3				12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greater	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3				12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greater	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3				12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greater	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3.				12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greater	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
3		20%	of total cover:	12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greater	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.
Noody Vine Stratum (Plot siz		20%		12	than 3 in. DBH and greater than 3.2 Herb – All herbaceous (non-woody of size, and woody plants less than Woody Vine – All woody vines greatheight.	28 ft (1 m) tall.) plants, regardless 3.28 ft tall.

Planted Pinus elliottii makes up the canopy with 70% cover. Not included in calculations because it was planted. No woody vines observed with in the plot.

SOIL Sampling Point: W21-WD1

		o the dep				ator or co	onfirm the absence	of indicators.)		
Depth	Matrix			K Featur		1 - 2	T.,,t.,,,	Davis and a		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-4	10YR 3/1	60					Sandy	Remaining 40% unmasked 10YR 6/1		
4-8	10YR 3/1	30	10YR 5/1	20	<u>D</u>	M	Sandy	Remaining 50% unmasked 10YR 6/1		
8-14	10YR 5/1	60					Sandy	Remaining 40% unmasked 10YR 6/1		
14-20	10YR 3/2	100					Sandy			
¹ Type: C=Cor	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.		
Hydric Soil In	ndicators: (Applicat	ole to all I	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol (A1)		Thin Dark Su	ırface (S	9) (LRR	S, T, U)	1 cm N	Muck (A9) (LRR O)		
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)		
Black His	tic (A3)		(MLRA 15	3B, 153	D)		Coast	Prairie Redox (A16)		
Hydrogen	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(out	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)		
Organic B	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3)			(outs	side MLRA 150A, 150B)		
	ky Mineral (A7) (LRI		Redox Dark	Surface	(F6)		Piedme	ont Floodplain Soils (F19) (LRR P, T)		
	sence (A8) (LRR U)	,	Depleted Da	rk Surfa	ce (F7)			alous Bright Floodplain Soils (F20)		
	k (A9) (LRR P, T)		Redox Depre	essions	(F8)			(MLRA 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L		,		Red Parent Material (F21)			
	k Surface (A12)	,	Depleted Oc		1) (MLR /	A 151)	Very Shallow Dark Surface (F22)			
	irie Redox (A16) (M	LRA 150A					O, P, T) (outside MLRA 138, 152A in FL, 154)			
	ıcky Mineral (S1) (LF		Umbric Surfa		•	, ,	Barrier Islands Low Chroma Matrix (TS7)			
	eyed Matrix (S4)	-,-,	Delta Ochric				(MLRA 153B, 153D)			
Sandy Re			Reduced Ve							
X Stripped N	` '		Piedmont Flo	,	, ,		· —	,		
	ace (S7) (LRR P, S,	T. U)	Anomalous E							
	Below Surface (S8)		(MLRA 14	-			³ Indicators of hydrophytic vegetation and			
(LRR S			Very Shallow				wetland hydrology must be present,			
(======	, -, -,		(MLRA 13				unless disturbed or problematic.			
	ayer (if observed):									
Type: N	lone									
Depth (inc	ches):						Hydric Soil Pres	ent? Yes X No		
Remarks:		£	No svidence of us	4:	-144:-	_				
Area within the	e plot is bedded and	furrowed.	No evidence of rec	cent soil	alteratio	n.				



W21_WD1



Project/Site: Trail Ridge South	City/Cou	nty: Bradford	Sampling Date: 12/5/18				
Applicant/Owner: The Chemours Compar	y FC, LLC	State:	FL Sampling Point: W21-UD1				
Investigator(s): D.Sank, D.LeJeune	Section, Town	nship, Range: 13, -7, 22					
Landform (hillside, terrace, etc.): terrrace		cave, convex, none): convex	Slope (%): 2				
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 03' 5.91"	Datum: WGS 84				
Soil Map Unit Name: Leon sand, 0 to 2 perce	·		ssification: Upland				
Are climatic / hydrologic conditions on the site			(If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrold		Are "Normal Circumstances" p	resent? Yes X No				
Are Vegetation, Soil, or Hydrold	ogynaturally problematic?	(If needed, explain any answer	s in Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing sampling p	ooint locations, transec	ts, important features, etc.				
Hydrophytic Vogetation Procent?	res No X Is the Sa	mpled Area					
, , , ,			No _ X				
	res No X	-					
Remarks:							
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows have dominantly been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.							
HYDROLOGY							
Water Table Present? Yes	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living In Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scantin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Surface So Sparsely Vo Drainage P Moss Trim Dry-Seasor Crayfish Bu Saturation Geomorphi Shallow Aq FAC-Neutra Sphagnum Wetland Hydrology Pres	al Test (D5) Moss (D8) (LRR T,U)				
Remarks: The natural landform has been converted for	silviculture practices.						

<u>Tree Stratum</u> (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 4 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 2 x1 = 2
50% of total cover:		of total cover:		FACW species 12 x 2 = 24
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 5 x 3 = 15
Serenoa repens	50	Yes	FACU	FACU species 50 x 4 = 200
2. Ilex glabra	10	No No	FACW	UPL species 17 x 5 = 85
3.		110	TAOW	Column Totals: 86 (A) 326 (B)
4.				Prevalence Index = B/A = 3.79
5.				Hydrophytic Vegetation Indicators:
6.				
				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
7.				
8				3 - Prevalence Index is ≤3.0¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:3	0 20%	of total cover:	12	
Herb Stratum (Plot size: 10m x 10m)				
Andropogon virginicus	5	Yes	<u>FAC</u>	¹ Indicators of hydric soil and wetland hydrology must be
2. Lachnanthes caroliniana	2	No	OBL	present, unless disturbed or problematic.
3. Cladonia sp.	10	Yes	UPL	Definitions of Four Vegetation Strata:
4. Juncus scirpoides	2	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Ceratiola ericoides	2	No	UPL	more in diameter at breast height (DBH), regardless of
6. Pseudognaphalium obtusifolium	5	Yes	UPL	height.
7				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				3
10				Hart All back as a confusion of All back as a confusion
11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.				or size, and woody plante loss than o.ze it tail.
	26	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	3 20%	of total cover:	6	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1.				
2.				
3.				
5.				
·		=Total Cover		Hydrophytic
E00/ of total cover		of total cover:		Vegetation Present? Yes No X
50% of total cover:		or total cover:		Present? Yes No X
Remarks: (If observed, list morphological adaptation	ns below.)			

Planted Pinus elliottii makes up the canopy with 80% cover. Not included in calculations because it was planted. No woody vines observed with in the plot.

Sampling Point: W21-UD1

SOIL Sampling Point: W21-UD1

	ription: (Describe to	o the dept				itor or co	onfirm the absence	of indicators	.)	
Depth (inches)	Matrix Color (maint)	<u></u> %		k Featur %		Loc ²	Toyturo		Domorko	
(inches) 0-4	Color (moist) 10YR 5/1	30	Color (moist)		Type ¹	LOC	Texture Sandy	Pomoining	Remarks 70% unmasked 10YR 6/1	
0-4									-	
4-14	10YR 5/1						Sandy	Rema	ining 50% 10YR 7/1	
14-20	10YR 7/1	100					Sandy			
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	l Grains.		PL=Pore Linir	-	
-	ndicators: (Applicat	ole to all L							atic Hydric Soils ³ :	
— Histosol (•		Thin Dark Su	-				luck (A9) (LR I	•	
	pedon (A2)		Barrier Island		-	12)		1uck (A10) (LF	•	
Black His	` '		(MLRA 15			DD 6\		Prairie Redox		
<u> </u>	Sulfide (A4)		Loamy Muck	•	` ' '	RR O)	•	side MLRA 15	•	
	Layers (A5)	T 11\	Loamy Gleye					ed Vertic (F18 side MLRA 15	•	
	Bodies (A6) (LRR, P, cky Mineral (A7) (LRI		Depleted Ma Redox Dark				•		Soils (F19) (LRR P, T)	
	esence (A8) (LRR U)	, . , . , . ,	Depleted Da							
	ck (A9) (LRR P, T)		Redox Depre		` '		Anomalous Bright Floodplain Soils (F20) (MLRA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L		,		Red Parent Material (F21)			
	rk Surface (A12)	. ,		Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)		
Coast Pra	airie Redox (A16) (M	LRA 150A	Iron-Mangan	Iron-Manganese Masses (F12) (LRR C				O, P, T) (outside MLRA 138, 152A in FL, 154)		
Sandy Mu	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	Umbric Surface (F13) (LRR P, T, U)				Barrier Islands Low Chroma Matrix (TS7)		
Sandy Gl	eyed Matrix (S4)		Delta Ochric	Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)		
Sandy Re			Reduced Ver	,	, ,		· —	Explain in Re	marks)	
··	Matrix (S6)		Piedmont Flo		-					
	face (S7) (LRR P, S,		Anomalous E	-		-				
	Below Surface (S8)		(MLRA 14				³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
(LRR S	i, I, U)		Very Shallow (MLRA 13		`	,	unless disturbed or problematic.			
Postrictivo I	aver (if observed):		(IVILIXA 13	0, 132A	, III F E, 13) +)	unie 	ss distuibed t	л рговієптаце.	
	None									
Depth (in							Hydric Soil Prese	ent? Yo	es No X	
Remarks:										
Area within th	e plot is bedded and	furrowed.	No evidence of re	cent so	il alteratio	n.				



W21_UD1



Project/Site: Trail Ridge South	City/Cou	inty: Bradford	Sampling Date: 12/5/18				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W23-WD1				
Investigator(s): D.Sank, D.LeJeune	Section, Tow	nship, Range: 13, -7, 22					
Landform (hillside, terrace, etc.): depression	·	cave, convex, none): concave	Slope (%): 0				
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82° 02' 58.68"	Datum: WGS 84				
Soil Map Unit Name: Starke mucky fine sand			ation: wetland				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	explain in Remarks.)				
Are Vegetation, Soil, or Hydrok		Are "Normal Circumstances" present					
Are Vegetation, Soil, or Hydrok		(If needed, explain any answers in R					
SUMMARY OF FINDINGS – Attach			·				
Hydrophytic Vegetation Present?	Yes X No Is the Sa	ampled Area					
1		Wetland? Yes X	No				
'	Yes X No						
Remarks:							
Rainfall conditions for Bradford County were near normal for November and are 3.46 inches above average for the prior 12 months. An average 1.54 inches of rainfall was recorded at the site during the prior week. The site has been historically converted to pine plantation and has beds/furrows. In some areas the furrows may intercept the seasonal high water table resulting in wetland vegetation within the furrow, however upland plants remain on the bed. Beds and furrows have dominantly been constructed perpendicular to the slope per silviculture BMPs. Since furrows are constructed cross slope, this can result in ponding of water within the furrows during abnormally wet periods.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is require	* * * * *	Surface Soil Crac					
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)				
—— High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern					
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines					
— Water Marks (B1)	Oxidized Rhizospheres on Living I						
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows					
Drift Deposits (B3)	Recent Iron Reduction in Tilled Sc		e on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Pos					
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard					
Inundation Visible on Aerial Imagery (B7))	X FAC-Neutral Tes	` '				
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)				
Field Observations:	N D (I Grahas)						
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):	Moderna Hudrology Present?	Vaa V Na				
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes <u>X</u> No				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous ins	spections), if available:					
Remarks: The natural landform has been converted for 12 inches of the soil profile.	silviculture practices. It is expected th	at during the wet season the water to	able is present with in the top				

		Absolute	Dominant	Indicator	
Tre	e Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1.	Persea palustris	2	No	FACW	Number of Dominant Species
2.	Ilex myrtifolia	2	No	FACW	That Are OBL, FACW, or FAC:5 (A)
 4. 					Total Number of Dominant Species Across All Strata: 5 (B)
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					Prevalence Index worksheet:
7. 8.					Total % Cover of: Multiply by:
0.		4	=Total Cover		OBL species 43 x 1 = 43
	50% of total cover:		of total cover:	1	FACW species 75 x 2 = 150
Sai	bling/Shrub Stratum (Plot size: 10m x 10m	<u>2</u> 2070	oi total cover.		FAC species 20 x 3 = 60
<u>3a</u> 1.	Lyonia lucida) 40	Yes	FACW	FACU species 1 x 4 = 4
1. 2.	Ilex glabra	10	No	FACW	UPL species 0 x 5 = 0
3.	Morella cerifera	2	No	FAC	
3. 4.		2	No	FACW	Column Totals: 139 (A) 257 (B) Prevalence Index = B/A = 1.85
4. 5.	Persea palustris	2	No	FAC	Hydrophytic Vegetation Indicators:
5. 6.	Acer rubrum Vaccinium conumbosum	3	No	FACW	
	Vaccinium corymbosum		INO	FACW	1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50%
7.					X 3 - Prevalence Index is ≤3.0 ¹
8.			Total Cause		
	FOO/ of total acusan		=Total Cover	40	Problematic Hydrophytic Vegetation ¹ (Explain)
		30 20%	of total cover:	12	
	<u>b Stratum</u> (Plot size: 10m x 10m)	0	NI.	EA 0\A/	
1.	Andropogon glomeratus	8	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2.	Woodwardia virginica	15	Yes	OBL	present, unless disturbed or problematic.
3.	Xyris elliottii	15	Yes	OBL	Definitions of Four Vegetation Strata:
4.	Juncus scirpoides	8	No No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. c	Solidago fistulosa	4	No No	FAC	height.
6.	Eupatorium capillifolium	1	No	FACU	
7.	Lachnocaulon minus	10	Yes	OBL	Sapling/Shrub – Woody plants, excluding vines, less
8.	Lachnanthes caroliniana	3	No	OBL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.	Dichanthelium dichotomum	10	Yes	FAC	
10.					Herb – All herbaceous (non-woody) plants, regardless
11.					of size, and woody plants less than 3.28 ft tall.
12.		74	Total Cause		Woods Vinc. All suceds since prostenth on 2 20 ft in
	500/ 51.1.1		=Total Cover	4.5	Woody Vine – All woody vines greater than 3.28 ft in height.
١٨/-		<u>37 </u>	of total cover:	15	Tolgin.
	ody Vine Stratum (Plot size: 10m x 10m)	0	NI.	E40	
1.	Rubus argutus	2	No	<u>FAC</u>	
2.	-				
3.	-				
4.					
5.					Hydrophytic
			=Total Cover		Vegetation
	50% of total cover:	1 20%	of total cover:	1	Present?
Rei	marks: (If observed, list morphological adaptation	ns below.)			

 $Planted\ Pinus\ elliottii\ makes\ up\ the\ canopy\ with\ 25\%\ cover.\ \ Not\ included\ in\ calculations\ because\ it\ was\ planted.$

Sampling Point: W23-WD1

SOIL Sampling Point: W23-WD1

	ription: (Describe to	o the dept				ator or co	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	es Type ¹	Loc ²	Texture	Remarks
0-6	10YR 2/1	80	Color (moist)		Туре	LOC		
							Mucky Sand	Remaining 10% unmasked 10YR 6/1
6-20	10YR 5/1	90	10YR 6/1	10	D	M	Sandy	
			_					
								-
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil In	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol (A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm N	Muck (A9) (LRR O)
Histic Epi	pedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)
Black His	` '		(MLRA 15					Prairie Redox (A16)
	Sulfide (A4)		Loamy Muck	•	` ',	.RR O)	•	side MLRA 150A)
	Layers (A5)		Loamy Gleye		٠, ,			ed Vertic (F18)
	Bodies (A6) (LRR, P,		Depleted Ma				•	side MLRA 150A, 150B)
	cky Mineral (A7) (LRI	R P, I, U)	Redox Dark					ont Floodplain Soils (F19) (LRR P, T)
	esence (A8) (LRR U) ck (A9) (LRR P, T)		Depleted Dar					alous Bright Floodplain Soils (F20) RA 153B)
	Below Dark Surface	(A11)	Marl (F10) (L		(10)		•	arent Material (F21)
	rk Surface (A12)	(7(1)	Depleted Oc		1) (MLR	A 151)		hallow Dark Surface (F22)
	airie Redox (A16) (M	LRA 150A		-				side MLRA 138, 152A in FL, 154)
	ucky Mineral (S1) (LF		Umbric Surfa					Islands Low Chroma Matrix (TS7)
	eyed Matrix (S4)	. ,	Delta Ochric					RA 153B, 153D)
Sandy Re			Reduced Ver					(Explain in Remarks)
X Stripped I	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)	
X Dark Surf	face (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	20)	
	e Below Surface (S8)		(MLRA 14				³ Indica	tors of hydrophytic vegetation and
(LRR S	s, T, U)		Very Shallow	Dark S	Surface (F	22)		and hydrology must be present,
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.
	ayer (if observed):							
· · · -	None							
Depth (in	ches):						Hydric Soil Pres	ent? Yes X No
Remarks:	of recent soil alteration	on						



W23_WD1



Project/Site: Trail Ridge South	City/County:	Bradford	Sampling Date: 12/5/18
Applicant/Owner: The Chemours Compan	ny FC, LLC	State: FL	Sampling Point: W23-UD1
Investigator(s): D.Sank, D.LeJeune	Section, Township	o, Range: 13, -7, 22	
Landform (hillside, terrace, etc.): terrace	 Local relief (concave	, convex, none): None	Slope (%): 1
Subregion (LRR or MLRA): LRR T, MLRA 15.		Long: -82° 02' 58.75"W	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0 to 2 perce		NWI classification	
Are climatic / hydrologic conditions on the site	typical for this time of year?	s X No (If no, ex	plain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are	"Normal Circumstances" present?	Yes X No
Are Vegetation , Soil , or Hydrold	· · · · · · · · · · · · · · · · · · ·	eeded, explain any answers in Ren	
SUMMARY OF FINDINGS – Attach			•
Hydrophytic Vegetation Present?	Yes X No Is the Sampl	ed Area	
	Yes No X within a Wet		No X
	Yes No X		
Remarks:			
Rainfall conditions for Bradford County were in inches of rainfall was recorded at the site during some areas the furrows may intercept the sea on the bed. Beds and furrows have dominant cross slope, this can result in ponding of water	ing the prior week. The site has been histo asonal high water table resulting in wetland tly been constructed perpendicular to the s	rically converted to pine plantation vegetation within the furrow, howelope per silviculture BMPs. Since	and has beds/furrows. In ever upland plants remain
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (n	ninimum of two required)
Primary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Cracks	
Surface Water (A1)	Aquatic Fauna (B13)		d Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B	
Water Marks (B1)	Oxidized Rhizospheres on Living Root		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (0	
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position	
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (
Water-Stained Leaves (B9)		Sphagnum Moss (E	•
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes		Wetland Hydrology Present?	Yes No X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mor Not available	nitoring well, aerial photos, previous inspec	rions), if available:	
Damania			
Remarks: The natural landform has been converted for	silviculture practices		
The natural landioni has been convented for	Silviculture practices.		

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. <u> </u>				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3.				
1.				Total Number of Dominant Species Across All Strata: 7 (B)
5 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 57.1% (A/B)
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 1 x 1 = 1
50% of total cover:	20%	of total cover:		FACW species 17 x 2 = 34
Sapling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 48 x 3 = 144
l. Ilex glabra	15	Yes	FACW	FACU species 30 x 4 = 120
2. Serenoa repens	5	Yes	FACU	UPL species 30 x 5 = 150
3.				Column Totals: 126 (A) 449 (B)
1.				Prevalence Index = B/A = 3.56
5.				Hydrophytic Vegetation Indicators:
S				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
3.				3 - Prevalence Index is ≤3.0 ¹
	20 =	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 1	0 20%	of total cover:	4	
Herb Stratum (Plot size: 10m x 10m)		,		
1. Vaccinium myrsinites	25	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be
2. Dichanthelium dichotomum	25	Yes	FAC	present, unless disturbed or problematic.
3. Andropogon virginicus	10	No	FAC	Definitions of Four Vegetation Strata:
4. Cladonia sp.	30	Yes	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Solidago fistulosa	5	No	FAC	more in diameter at breast height (DBH), regardless of
6. Osmundastrum cinnamomeum	1	No	FACW	height.
7. Scleria ciliata	3	No	FAC	
3. Panicum hemitomon	1	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9. Eupatorium mohrii	1	No	FACW	than one portain greater than 0.20 it (1 in) tais.
10.				All best and upodu) planta regardless
11.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.				of dizo, and moday plante too man dizo it tall
	101 =	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:5	20%	of total cover:	21	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Vitis rotundifolia	3	Yes	FAC	
2. Rubus argutus	2	Yes	FAC	
		<u> </u>		
3.				1
4.				
4.		=Total Cover		Hydrophytic
3		=Total Cover		Hydrophytic Vegetation Present? Yes X No

Planted Pinus elliottii makes up the canopy with 50% cover. Not included in calculations because it was planted.

Sampling Point: W23-UD1

SOIL Sampling Point: W23-UD1

		o the dep				ator or co	onfirm the absence	of indicators.)	
Depth (inches)	Color (moist)	 -	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Re	emarks
0-11	10YR 4/1	50	Color (moist)		Турс		Sandy		unmasked 10YR 6/1
								Terriaining 50 70	dililasked 1011(0/1
11-20	10YR 5/1	95	10YR 6/1	5	<u>D</u>	M	Sandy		
								-	
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location:	PL=Pore Lining, M	=Matrix.
Hydric Soil In	ndicators: (Applicat	ole to all I	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic H	lydric Soils³:
Histosol ((A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm N	/luck (A9) (LRR O)	
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)
Black His	,		(MLRA 15					Prairie Redox (A16)
<u> </u>	Sulfide (A4)		Loamy Muck	•	` ' '	.RR O)	•	side MLRA 150A)	
	Layers (A5)		Loamy Gleye					ed Vertic (F18)	4.505)
	Bodies (A6) (LRR, P,		Depleted Ma				•	side MLRA 150A,	•
	cky Mineral (A7) (LR l esence (A8) (LRR U)	K P, I, U)	Redox Dark					ont Floodplain Soil: alous Bright Floodp	
	ck (A9) (LRR P, T)		Redox Depre		` '			RA 153B)	iaii 00ii3 (i 20)
	Below Dark Surface	(A11)	Marl (F10) (L		(. 0)		•	arent Material (F21)
	rk Surface (A12)	,	Depleted Ocl		1) (MLR /	A 151)		hallow Dark Surfac	,
Coast Pra	airie Redox (A16) (M	LRA 150A	N Iron-Mangan	ese Ma	sses (F1	2) (LRR (O, P, T) (outs	side MLRA 138, 1	52A in FL, 154)
Sandy Mu	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chron	ma Matrix (TS7)
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	51)	(MLF	RA 153B, 153D)	
Sandy Re			Reduced Ver	,	, .		· —	(Explain in Remark	s)
··	Matrix (S6)		Piedmont Flo						
	face (S7) (LRR P, S,		Anomalous E	-	•	•			
	e Below Surface (S8)		(MLRA 14					tors of hydrophytic	· ·
(LRR S	s, I, U)		Very Shallow (MLRA 13		,	,		and hydrology mus ess disturbed or pro	-
Restrictive I	ayer (if observed):		(MERA 10	J, 102A	· · · · · · · · · · · · · · · · · · ·			.33 distarbed or pre	bicinatic.
	None								
Depth (in							Hydric Soil Pres	ent? Yes	No X
Remarks:	,							_	
Area within th	e plot is bedded and	furrowed.	No evidence of re	cent so	il alteratio	on.			



W23_UD1



Project/Site: Trail Ridge South	(City/County: Bradford		Sampling Date: 12/6/18
Applicant/Owner: The Chemours Compa	ny FC, LLC		State: FL	Sampling Point: W25_WD1
Investigator(s): D.Sank, N. Adams	Section	on, Township, Range:	24, -7, 22	<u> </u>
Landform (hillside, terrace, etc.): depression		elief (concave, convex, r		Slope (%): 0
Subregion (LRR or MLRA): LRR T, MLRA 15		•	2° 02' 51.29"	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0-2 percent			NWI classifica	
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydrol	ogy significantly disturbe	ed? Are "Normal Ci	rcumstances" present	? Yes X No
Are Vegetation, Soil, or Hydrol	· · · · · · · · · · · · · · · · · · ·		lain any answers in Re	
SUMMARY OF FINDINGS – Attach			-	·
Hydrophytic Vegetation Present?	Yes X No Is	s the Sampled Area		
1		within a Wetland?	Yes X	No
'	Yes X No			
Remarks:				
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of wat	ring the prior week. The site ha easonal high water table resutin ave been constructed perpendio	is been historically conv ng in wetland vegetation cular to the slope per si	verted to pine plantation within the furrow, how	n and has beds/furrows. In vever upland plants remain on
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Crac	<u>.</u>
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)
X High Water Table (A2)	Marl Deposits (B15) (LRR	R U)	Drainage Patterns	
X Saturation (A3)	Hydrogen Sulfide Odor (C	(1)	Moss Trim Lines ((B16)
Water Marks (B1)	Oxidized Rhizospheres or	n Living Roots (C3)	Dry-Season Wate	r Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron	n (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		X Geomorphic Posit	
Iron Deposits (B5)	Other (Explain in Remarks	s)	Shallow Aquitard	(D3)
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test	` '
Water-Stained Leaves (B9)			X Sphagnum Moss	(D8) (LRR T,U)
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes X	No Depth (inches): _	10		
Saturation Present? Yes X	No Depth (inches): _	10 Wetland F	lydrology Present?	Yes <u>X</u> No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mo Not available	nitoring well, aerial photos, pre	vious inspections), if av	ailable:	
Remarks:				
The natural landform has been converted for stained leaves located at the bottom of the fu		um moss located at the	top, bottom, and sides	of the furrows. Water

T. 01 1 (DL) 1 10 10 1	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
 Ilex myrtifolia Ilex myrtifolia 	5	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 7 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	5	=Total Cover		OBL species 29 x 1 = 29
50% of total cover:	3 20%	of total cover:	1	FACW species 54 x 2 = 108
Sapling/Shrub Stratum (Plot size: 10m x 10m)			FAC species19
1. Acer rubrum	2	No	FAC	FACU species0 x 4 =0
2. Lyonia lucida	10	Yes	FACW	UPL species0 x 5 =0
3. Ilex glabra	20	Yes	FACW	Column Totals: 102 (A) 194 (B)
4. Vaccinium corymbosum	10	Yes	FACW	Prevalence Index = B/A = 1.90
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 ¹
	42	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	21 20%	of total cover:	9	
Herb Stratum (Plot size: 10m x 10m)				
1. <u>Ilex glabra</u>	5	<u>No</u>	FACW	¹ Indicators of hydric soil and wetland hydrology must be
2. Vaccinium corymbosum	2	No	FACW	present, unless disturbed or problematic.
3. Osmundastrum cinnamomeum	15	Yes	OBL	Definitions of Four Vegetation Strata:
4. Woodwardia virginica	10	Yes	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Andropogon virginicus	8	Yes	FAC	more in diameter at breast height (DBH), regardless of height.
6. <u>Dichanthelium dichotomum</u>	5	<u>No</u>	FAC	Height.
7. Woodwardia areolata	3	<u>No</u>	OBL	Sapling/Shrub – Woody plants, excluding vines, less
8. Acer rubrum	1	No	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9. Scleria baldwinii	2	No	FACW	
10. Hypericum tetrapetalum	1	No	OBL	Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				
		=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
	26 20%	of total cover:	11	height.
Woody Vine Stratum (Plot size: 10m x 10m)				
1. Vitis rotundifolia	1	No	FAC	
2. Smilax bona-nox	2	No	FAC	
3.				
4				
5.				Hydrophytic
	3	=Total Cover		Vegetation
50% of total cover:	2 20%	of total cover:	1	Present?
Remarks: (If observed, list morphological adaptation	ne helow)			•

Remarks: (If observed, list morphological adaptations below.)
Planted Pinus elliottii makes up the canopy with 60% cover. Not included in calculations because it was planted.

Sampling Point: W25_WD1

SOIL Sampling Point: W25_WD1

		o the dep				ator or co	onfirm the absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type ¹	Loc ²	Texture	Remarks	
0-5	10YR 3/1	60	Color (moist)		Туре	LOC			
			40VD F/4				Sandy	Remaining soil unmasked 10YR 6/1	
5-14	10YR 3/1	90	10YR 5/1	10	<u>D</u>	M	Sandy		
14-20	10YR 3/1	70					Sandy	Remaining soil unmasked 10YR 6/1	
¹ Type: C=Co	ncentration, D=Deple	etion, RM	Reduced Matrix, N	MS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators: (Applical	ble to all	LRRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hydric Soils ³ :	
Histosol ((A1)		Thin Dark S	urface (S	9) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)	
Histic Ep	ipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	12)	2 cm N	luck (A10) (LRR S)	
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast I	Prairie Redox (A16)	
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)	
Stratified	Layers (A5)		Loamy Gley	ed Matri	x (F2)		Reduce	ed Vertic (F18)	
Organic E	Bodies (A6) (LRR, P,	, T, U)	Depleted Ma	ıtrix (F3)			(outs	ide MLRA 150A, 150B)	
5 cm Mud	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bright Floodplain Soils (F20)	
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLF	RA 153B)	
Depleted	Below Dark Surface	(A11)	Marl (F10) (I	.RR U)			Red Pa	rent Material (F21)	
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)		
Coast Pra	airie Redox (A16) (M	LRA 150A	\) Iron-Mangar	ese Ma	sses (F1	2) (LRR C	D, P, T) (outs	ide MLRA 138, 152A in FL, 154)	
Sandy M	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chroma Matrix (TS7)	
Sandy Gl	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	51)	(MLF	RA 153B, 153D)	
Sandy Re	edox (S5)		Reduced Ve	rtic (F18) (MLRA	150A, 15	50B) Other (Explain in Remarks)	
X Stripped			Piedmont Fl	oodplain	Soils (F	19) (MLR	A 149A)		
	face (S7) (LRR P, S ,		Anomalous I	-					
	e Below Surface (S8))	(MLRA 14					tors of hydrophytic vegetation and	
(LRR S	S, T, U)		Very Shallov					and hydrology must be present,	
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.	
	ayer (if observed):								
Type: <u>1</u> Depth (in	ohes):						Hydric Soil Prese	ent? Yes X No	
							Tiyunc 3011 Fiese	163 <u>/</u> 10	
Remarks:	e plot is bedded and	l furrowed	No evidence of re	cent soil	alteratio	n			
7 troa Within th	io piot io boddod dirid	riarrowea	THO CVIGORIOC OF TO	00111 0011	altoratio				



W25_WD1



Project/Site: Trail Ridge South	City/Coun	ty: Bradford	Sampling Date: 12/6/18
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W25_UD1
Investigator(s): D. Sank, N. Adams	Section, Town:	ship, Range: 24, -7, 22	
Landform (hillside, terrace, etc.): terrace	Local relief (conc	ave, convex, none): none	Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15	•	Long: -82°02'50.97"W	Datum: WGS 84
Soil Map Unit Name: Leon sand, 0-2 percent		NWI classifica	
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbed?	Are "Normal Circumstances" present	t? Yes X No
Are Vegetation, Soil, or Hydrole		If needed, explain any answers in R	
SUMMARY OF FINDINGS – Attach			•
Hydrophytic Vegetation Present?	Yes No X Is the Sar	mpled Area	
	Yes No X within a V		No X
	Yes X No		
Remarks:			
Rainfall conditions for Bradford County were inches of rainfall was recorded at the site dur some areas the furrows may intercept the se the bed. Beds and furrows in some areas ha cross slope, this can result in ponding of water	ring the prior week The site has been his easonal high water table resuting in wetla ave been constructed perpendicular to th	storically converted to pine plantatio and vegetation within the furrow, how he slope per silviculture BMPs. Sinc	n and has beds/furrows. In wever upland plants remain on
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crad	<u> </u>
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Pattern	
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines	(B16)
Water Marks (B1)	Oxidized Rhizospheres on Living R	oots (C3) Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soil	ls (C6) Saturation Visible	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Pos	
Iron Deposits (B5)	X Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Tes	, ,
Water-Stained Leaves (B9)		X Sphagnum Moss	(D8) (LRR T,U)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):	l	
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe)		a ational if available.	
Describe Recorded Data (stream gauge, mol Not available	nitoring well, aerial photos, previous insp	Dections), if available:	
TVOL AVAIIABIO			
Remarks:			
The natural landform has been converted for 12 inches of the soil profile. Sphagnum moss			ble is present with in the top

Tree	Stratum (Plot size: 10m x 10m)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	Chatani (Flot Size:	70 00101	ороско:	Otatus	
2.					Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.					Total Number of Dominant
4.					Species Across All Strata: 4 (B)
5.					Percent of Dominant Species
6.					That Are OBL, FACW, or FAC: 50.0% (A/B)
7.					Prevalence Index worksheet:
8.					Total % Cover of: Multiply by:
			=Total Cover		OBL species1 x 1 =1
	50% of total cover:	20%	of total cover:		FACW species 30 x 2 = 60
Sapl	ing/Shrub Stratum (Plot size: 10m x 10m)				FAC species24 x 3 =72
1.	llex glabra	20	Yes	FACW	FACU species 50 x 4 = 200
2.	Serenoa repens	10	Yes	FACU	UPL species0 x 5 =0
3.	Vaccinium corymbosum	5	No	FACW	Column Totals: 105 (A) 333 (B)
4.					Prevalence Index = B/A = 3.17
5.					Hydrophytic Vegetation Indicators:
6.					1 - Rapid Test for Hydrophytic Vegetation
7.					2 - Dominance Test is >50%
8.					3 - Prevalence Index is ≤3.0 ¹
		35	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	50% of total cover: 18	20%	of total cover:	7	
Herb	Stratum (Plot size: 10m x 10m)				
1.	Pteridium aquilinum	40	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be
2.	Andropogon virginicus	15	Yes	FAC	present, unless disturbed or problematic.
3.	Dichanthelium dichotomum	5	No	FAC	Definitions of Four Vegetation Strata:
4.	Scleria baldwinii	1	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.	Vaccinium corymbosum	1	No	FACW	more in diameter at breast height (DBH), regardless of
-	Osmundastrum cinnamomeum	2	No	FACW	height.
7.					
8.	Woodwardia virginica	1	No	OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.	llex glabra	1	No	FACW	than 5 in. DBH and greater than 5.25 it (1 iii) tail.
10.					
11.					Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.					of size, and woody plants less than 5.20 it tall.
-		66	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
	50% of total cover: 33	20%	of total cover:	14	height.
Woo	dy Vine Stratum (Plot size: 10m x 10m)				
	Vitis rotundifolia	2	No	FAC	
-	Smilax bona-nox	2	No	FAC	
3.					
4.					
5.					
-		4	=Total Cover		Hydrophytic Vegetation
	50% of total cover: 2		of total cover:	1	Present? Yes No X
Por					
	arks: (If observed, list morphological adaptation ted Pinus elliottii makes up the canopy with 65%	,	included in calc	ulations bec	ause it was planted.
	ap and candp)				

Sampling Point: W25_UD1

SOIL Sampling Point: W25_UD1

		o the dep				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	Type ¹	Loc ²	Texture	Rem	narks		
0-10	10YR 3/1	50	Color (moist)	70	Турс		Sandy		masked 10YR 6/1		
10-20	10YR 4/1	60	10YR 5/1	5		M	Sandy		masked 10YR 6/1		
								Depletions incre	ease throughout		
								the soil	profile.		
								,			
									_		
¹ Type: C=Co	ncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location: I	PL=Pore Lining, M=l	Matrix.		
Hydric Soil II	ndicators: (Applical	ole to all l	RRs, unless othe	rwise n	oted.)		Indicators	for Problematic Hy	dric Soils³:		
Histosol ((A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)			
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	luck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	Prairie Redox (A16)			
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outs	ide MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(outs	ide MLRA 150A, 15	0B)		
5 cm Mud	cky Mineral (A7) (LR I	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils ((F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	lous Bright Floodpla	in Soils (F20)		
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLR	A 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	rent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Oc	Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A)Iron-Mangan	ese Ma	sses (F12	2) (LRR (D, P, T) (outs	ide MLRA 138, 152	A in FL, 154)		
Sandy Mi	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ice (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chroma	a Matrix (TS7)		
Sandy GI	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(MLR	A 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ve	tic (F18	B) (MLRA	150A, 1	50B) Other (Explain in Remarks)			
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Surf	face (S7) (LRR P, S ,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	0)				
Polyvalue	e Below Surface (S8)		(MLRA 14				³ Indicat	ors of hydrophytic ve	egetation and		
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetla	and hydrology must l	oe present,		
			(MLRA 13	8, 152A	in FL, 1	54)	unles	ss disturbed or probl	ematic.		
	ayer (if observed):										
· · · -	None										
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No <u>X</u>		
Remarks:	a milakia baddada ara	6	No seddonos efec	4 9							
Area within th	e plot is bedded and	furrowed.	No evidence of rec	cent soil	alteratio	n.					



W25_UD1



Project/Site: Trail Ridge South	City/County: Clay	Sampling Date: 01/31/19
Applicant/Owner: The Chemours Compan	y FC, LLC	State: FL Sampling Point: W28_WD1
Investigator(s): D. LeJeune, D. Sank	Section, Township, Range:	19, -7, 23
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, n	one): concave Slope (%): 0-2
Subregion (LRR or MLRA): LRR T, MLRA 15	3A Lat: 29°52'7.352"N Long: -82	2°2'24.341"W Datum: WGS 84
Soil Map Unit Name: Leon fine sand		NWI classification: Upland
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes X	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed? Are "Normal Cir	rcumstances" present? Yes X No
Are Vegetation, Soil, or Hydrold		lain any answers in Remarks.)
	site map showing sampling point locatio	ons, transects, important features, etc.
Hydrophytic Vegetation Present?	es X No Is the Sampled Area	
Hydric Soil Present?	/es X No within a Wetland?	Yes _ X _ No
Wetland Hydrology Present?	/esXNo	
inches of rainfall was recorded at the site duri some areas the furrows may intercept the sea the bed. Beds and furrows in some areas ha	er than normal for January and are 5.94 inches above ng the prior week. The site has been historically convasonal high water table resuting in wetland vegetation we been constructed perpendicular to the slope per siler within the furrows during abnormally wet periods.	verted to pine plantation and has beds/furrows. In within the furrow, however upland plants remain on
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Position (D2)
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	-	X FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)
Field Observations:	No. Double (in alcos) 5	
	No Depth (inches): 5	
Water Table Present? Yes Saturation Present? Yes	No X Depth (inches): Wetland H	lydrology Present? Yes X No
(includes capillary fringe)	No X Depth (inches): Wetland H	lydrology Present? Yes X No No
	litoring well, aerial photos, previous inspections), if ava	ailable:
Bosonso recorded Bata (stream gauge, mor	normy won, dental priotes, provides inspessions), if ave	unusio.
Remarks:		

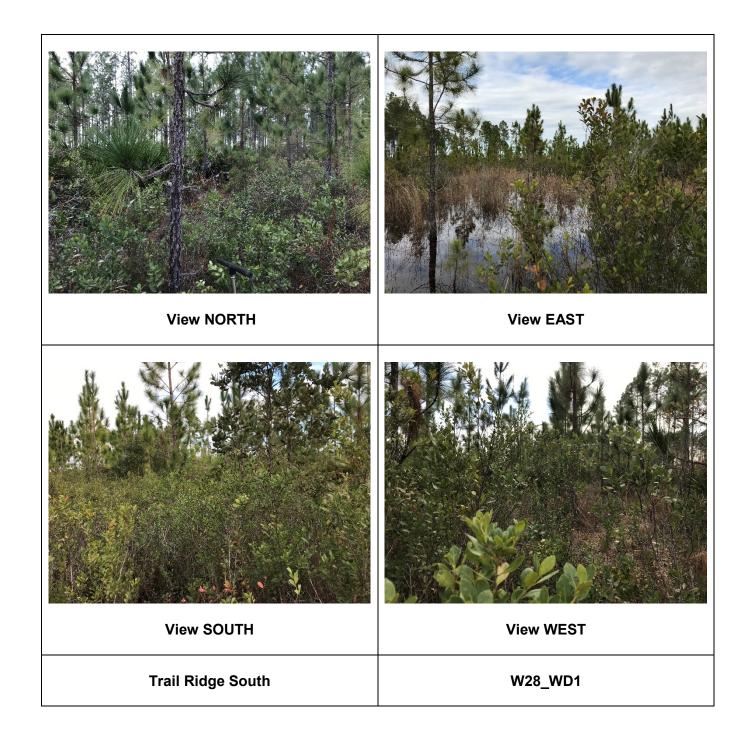
	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
Pinus elliottii	10	Yes	FACW	Number of Dominant Species
Pinus palustris	5	Yes	FACU	That Are OBL, FACW, or FAC:5 (A)
Persea palustris	2	No	FACW	Total Number of Dominant
		·		Species Across All Strata: 6 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 83.3% (A/B
				Prevalence Index worksheet:
		·		Total % Cover of: Multiply by:
	17	=Total Cover		OBL species 5 $x 1 = 5$
50% of total cover:	9 20%	of total cover:	4	FACW species 134 x 2 = 268
apling/Shrub Stratum (Plot size: 10m x 10m)			FAC species 25 x 3 = 75
llex glabra	50	Yes	FACW	FACU species 10 x 4 = 40
Pinus elliottii	2	No	FACW	UPL species 0 x 5 = 0
Lyonia lucida	10	No	FACW	Column Totals: 174 (A) 388 (B
Vaccinium corymbosum	15	No	FACW	Prevalence Index = B/A = 2.23
				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
		-		X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.0 ¹
	77	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	39 20%	of total cover:	16	
lerb Stratum (Plot size: 10m x 10m)				
. Vaccinium myrsinites	5	No	FACU	Indicators of hydric coil and watland hydrology must be
Juncus scirpoides	40	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
. Hypericum tetrapetalum	5	No	OBL	Definitions of Four Vegetation Strata:
. Andropogon virginicus	10	No	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
Dichanthelium dichotomum	15	Yes	FAC	more in diameter at breast height (DBH), regardless o
				height.
· · · · · · · · · · · · · · · · · · ·				Sapling/Shrub – Woody plants, excluding vines, less
·				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0. 1.				Herb – All herbaceous (non-woody) plants, regardless
2.				of size, and woody plants less than 3.28 ft tall.
	75	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:		of total cover:	15	height.
Voody Vine Stratum (Plot size: 10m x 10m)	2070	or total cover.	13	
. Smilax laurifolia	5	Voc	EACW	
. Similax laumona		Yes	FACW	
·				
·				
·		T-4-1 C		Hydrophytic
		=Total Cover	4	Vegetation
50% of total cover:		of total cover:	1	Present? Yes X No

SOIL Sampling Point: W28_WD1

	ription: (Describe t	o the dept				tor or co	onfirm the absence	of indicators.)			
Depth (inches)	Color (moist)	<u></u> %	Color (moist)	k Featur %	res Type ¹	Loc ²	Texture	Remarks			
0-4	10YR 3/1	80	Color (moist)		Туре		Sandy	Remaining soil unmasked 10YR 5/1			
4-9	10YR 3/1	30					Sandy	Remaining soil unmasked 10YR 5/1			
 											
	ncentration, D=Deple					Grains.		PL=Pore Lining, M=Matrix.			
-	ndicators: (Applical	ole to all L						for Problematic Hydric Soils ³ :			
Histosol (•		Thin Dark Su					Muck (A9) (LRR O)			
	pedon (A2)		Barrier Island			12)		Muck (A10) (LRR S)			
Black His	` '		(MLRA 15					Prairie Redox (A16)			
<u> </u>	Sulfide (A4)		Loamy Muck	•	. , .	RR O)	•	side MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(out	side MLRA 150A, 150B)			
	cky Mineral (A7) (LR		Redox Dark	Surface	(F6)		Piedmont Floodplain Soils (F19) (LRR P, T)				
Muck Pre	sence (A8) (LRR U)		Depleted Da	rk Surfa	ice (F7)		Anoma	alous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre		(F8)		(MLRA 153B)				
	Below Dark Surface	(A11)	Marl (F10) (L				Red Parent Material (F21)				
	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)				
	airie Redox (A16) (M				,	, ,					
	ucky Mineral (S1) (Li	RR O, S)	Umbric Surfa	ace (F13	B) (LRR P	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
	eyed Matrix (S4)		Delta Ochric	. , .		•	(MLRA 153B, 153D)				
Sandy Re			Reduced Ve	•	, ,		_ ` ` '				
	Matrix (S6)		Piedmont Floodplain Soils (F19) (MLRA 149A)								
	face (S7) (LRR P, S,		Anomalous E	-							
	Below Surface (S8))	(MLRA 14				³ Indicators of hydrophytic vegetation and				
(LRR S	5, T, U)		Very Shallow		`	,	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
	ayer (if observed):										
Type: <u>N</u> Depth (in	lone						Hydric Soil Pres	ent? Yes X No			
							Tryunc 3011 Fres	ent: 165 <u>/</u> 110			
Remarks: Soil boring is	terminated at 9 inche	es due to h	igh water table								
con boning to	torrimated at 5 more	55 ddc 10 11	gri water table.								



W28_WD1



Project/Site: Trail Ridge South	City/County	/: Clay	Sampling Date: 01/31/19				
Applicant/Owner: The Chemours Compar	ny FC, LLC	State: FL	Sampling Point: W28_UD1				
Investigator(s): D. LeJeune, D. Sank	Section, Townsl	nip, Range: 19, -7, 23	<u> </u>				
Landform (hillside, terrace, etc.): terrace		ve, convex, none): convex	Slope (%): 0-2				
Subregion (LRR or MLRA): LRR T, MLRA 15		Long: -82°2'25.199"W	Datum: WGS 84				
	Lat. 29 02 7.12 IV						
Soil Map Unit Name: Leon fine sand			cation: Upland				
Are climatic / hydrologic conditions on the site	•		o, explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	ogysignificantly disturbed? Ar	e "Normal Circumstances" prese	nt? Yes X No				
Are Vegetation, Soil, or Hydrolo	ogynaturally problematic? (If	needed, explain any answers in	Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing sampling po	int locations, transects,	important features, etc.				
Hydrophytic Vegetation Present?	Yes No X Is the Sam	pled Area					
, , , ,	Yes No X within a W		NoX				
	Yes No X						
Remarks:							
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur some areas the furrows may intercept the secon the bed. Beds and furrows in some areas cross slope, this can result in ponding of water	ing the prior week. The site has been his asonal high water table resulting in wetlar have been constructed perpendicular to	storically converted to pine planta nd vegetation within the furrow, h the slope per silviculture BMPs.	ation and has beds/furrows. In nowever upland plants remain				
HYDROLOGY							
	Aquatic Fauna (B13) Marl Deposits (B15) (LRR U) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T,U) Wetland Hydrology Present? Yes No _X					
Remarks: The natural landform has been converted for	silviculture practices.						

	Absolute	Dominant	Indicator		
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:	
	70 00101	ороско.	<u> </u>		
				Number of Dominant Species	
·				That Are OBL, FACW, or FAC:	(A
·				Total Number of Dominant	
·				Species Across All Strata:	6 (B
j.				Percent of Dominant Species	
<u></u>				That Are OBL, FACW, or FAC:	33.3% (A
				Prevalence Index worksheet:	()
					Anderson of the second
·					Multiply by:
		=Total Cover		OBL species0 x 1 =	0
50% of total cover:	20%	of total cover:		FACW species 30 x 2 =	60
apling/Shrub Stratum (Plot size: 10m x 10m)				FAC species 25 x 3 =	75
. Serenoa repens	50	Yes	FACU	FACU species 85 x 4 =	340
. Ilex glabra	30	Yes	FACW	UPL species 25 x 5 =	
. Morella cerifera	15	<u>No</u>	<u>FAC</u>	Column Totals: 165 (A)	600
·				Prevalence Index = B/A =	3.64
. <u> </u>				Hydrophytic Vegetation Indicators	5 :
				1 - Rapid Test for Hydrophytic V	egetation
				2 - Dominance Test is >50%	
				3 - Prevalence Index is ≤3.0 ¹	
·					1
	95	=Total Cover		Problematic Hydrophytic Vegeta	ation' (Explain)
50% of total cover: 48	3 20%	of total cover:	19		
larh Ctratum (Diataiza, 10m v 10m)					
<u>lerb Stratum</u> (Plot size: 10m x 10m)					
·	15	Yes	FACU	¹ Indicators of hydric soil and wotland	1 hydrology mus
Pteridium aquilinum		Yes Yes	FACU	¹ Indicators of hydric soil and wetland	
Pteridium aquilinum Vaccinium myrsinites	20	Yes	FACU	present, unless disturbed or problem	natic.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str	natic.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes	FACU	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine	natic. rata: es, 3 in. (7.6 cm
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D	natic. rata: es, 3 in. (7.6 cm
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine	natic. rata: es, 3 in. (7.6 cm
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height.	natic. rata: es, 3 in. (7.6 cm BH), regardless
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc	natic. rata: es, 3 in. (7.6 cm BH), regardless
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height.	natic. rata: es, 3 in. (7.6 cm BH), regardless
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc	natic. rata: es, 3 in. (7.6 cm BH), regardless
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26	natic. Pata: Pas, 3 in. (7.6 cm PBH), regardless Cluding vines, le B ft (1 m) tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody)	natic. Pata: Pas, 3 in. (7.6 cm PBH), regardless Cluding vines, le B ft (1 m) tall. plants, regardle
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20	Yes Yes	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26	natic. Pata: Pas, 3 in. (7.6 cm PBH), regardless Cluding vines, le B ft (1 m) tall. plants, regardle
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20 20 5	Yes Yes No	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20 20 5	Yes Yes No	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3 Woody Vine – All woody vines great	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20 20 5	Yes Yes No	FACU UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20 20 5	Yes Yes No	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3 Woody Vine – All woody vines great	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa 0. 1. 2. 50% of total cover: 30 Voody Vine Stratum (Plot size: 10m x 10m)	20 20 5	Yes Yes No	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3 Woody Vine – All woody vines great	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa 0 1 2 50% of total cover:	20 20 5 	Yes Yes No Total Cover of total cover:	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3 Woody Vine – All woody vines great	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa 0. 1. 2. 50% of total cover: 30 Voody Vine Stratum (Plot size: 10m x 10m) Smilax bona-nox	20 20 5 	Yes Yes No Total Cover of total cover:	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3 Woody Vine – All woody vines great	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa 0. 1. 2. 50% of total cover: 30 Woody Vine Stratum (Plot size: 10m x 10m) Smilax bona-nox	20 20 5 	Yes Yes No Total Cover of total cover:	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3 Woody Vine – All woody vines great	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20 20 5 	Yes Yes No Total Cover of total cover:	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.26 Herb – All herbaceous (non-woody) of size, and woody plants less than 3 Woody Vine – All woody vines great	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20 20 5 	Yes Yes No Total Cover of total cover:	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (D height. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.2d Herb – All herbaceous (non-woody) of size, and woody plants less than a Woody Vine – All woody vines great height.	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa	20 20 5 5 ——————————————————————————————	Yes Yes No Total Cover of total cover:	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Dheight. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.2d Herb – All herbaceous (non-woody) of size, and woody plants less than a woody Vine – All woody vines greatheight. Hydrophytic	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.
Pteridium aquilinum Vaccinium myrsinites Geobalanus oblongifolius Opuntia humifusa 0. 1. 2. 50% of total cover: 30 Voody Vine Stratum (Plot size: 10m x 10m)	20 20 5 5 ——————————————————————————————	Yes Yes No Total Cover of total cover: Yes	FACU UPL UPL	present, unless disturbed or problem Definitions of Four Vegetation Str Tree – Woody plants, excluding vine more in diameter at breast height (Dheight. Sapling/Shrub – Woody plants, exc than 3 in. DBH and greater than 3.2d Herb – All herbaceous (non-woody) of size, and woody plants less than a woody Vine – All woody vines greatheight. Hydrophytic Vegetation	natic. ata: es, 3 in. (7.6 cm BH), regardless cluding vines, le 8 ft (1 m) tall. plants, regardle 3.28 ft tall.

Planted Pinus elliottii makes up the canopy with 20% cover and P. palustris makes up the canopy with 40% cover . Not included in calculations because the species were planted.

SOIL Sampling Point: W28_UD1

	ription: (Describe to	the dept				itor or co	onfirm the absence	of indicators.)				
Depth (inches)	Matrix	<u></u> %		k Featur %		Loc ²	Toyturo	Do	m orko			
(inches) 0-2	Color (moist) 10YR 5/1	40	Color (moist)		Type ¹	Loc	Texture Sandy	-	marks nmasked 10YR 6/1			
2-10	10YR 5/1	20					Sandy	Remaining soil unmasked 10YR 6				
2-10	1011(3/1						Carray	imasked forty o/ i				
10-20	10YR 5/2						Sandy	Remaining soil u	nmasked 10YR 6/1			
¹ Type: C=Co	ncentration, D=Deple	tion RM=	Reduced Matrix M		—— ked Sand		² l ocation:	PL=Pore Lining, M=	-Matrix			
	ndicators: (Applicat					Oranis.		for Problematic H				
Histosol (ore to all E	Thin Dark Su			S. T. U)		fluck (A9) (LRR O)	, and cons .			
	ipedon (A2)		Barrier Island					fluck (A10) (LRR S)				
Black His			(MLRA 15		•	,		Prairie Redox (A16)				
	Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)				
· ·	Layers (A5)		Loamy Gleye	•	` ' '	,	•	ed Vertic (F18)				
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma					side MLRA 150A, 1	50B)			
5 cm Mu	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils	(F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)					
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)					
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Parent Material (F21)					
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR	A 151)	Very Shallow Dark Surface (F22)					
	airie Redox (A16) (M I				•	, ,						
	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	•	, ,		Barrier Islands Low Chroma Matrix (TS7)					
	eyed Matrix (S4)		Delta Ochric	. , .		•	(MLRA 153B, 153D)					
Sandy Re				luced Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)								
··	Matrix (S6)		Piedmont Flo		-							
	face (S7) (LRR P, S,		Anomalous E	-		-	•					
	e Below Surface (S8)		(MLRA 14				³ Indicators of hydrophytic vegetation and wetland hydrology must be present,					
(LRR S	5, 1, 0)		Very Shallow (MLRA 13		`	,	unless disturbed or problematic.					
Restrictive L	ayer (if observed):		· · · · · · · · · · · · · · · · · · ·	<u>, </u>	· ·	•		· ·				
Type: 1	None											
Depth (in	ches):						Hydric Soil Prese	ent? Yes	NoX			
Remarks:	of recent soil alteration	nn.										
No evidence (or recent son alteration	711										



W28-UD1



Project/Site: Trail Ridge South	City/County: Clay		_Sampling Date: <u>01/31/19</u>				
Applicant/Owner: The Chemours Compar	y FC, LLC	State: FL	Sampling Point: W35_WD1				
Investigator(s): D. LeJeune, D. Sank	Section, Township, Range	19, -7, 23					
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex	c, none): concave	Slope (%):0				
Subregion (LRR or MLRA): LRR T, MLRA 15	3A Lat: 29° 52' 6.46"N Long:	-82° 2' 31.31"W	Datum: WGS 84				
Soil Map Unit Name: Leon fine sand, 0-2 per		NWI classification	tion: Upland				
Are climatic / hydrologic conditions on the site			explain in Remarks.)				
Are Vegetation, Soil, or Hydrold	<i>"</i> —	Circumstances" present					
Are Vegetation, Soil, or Hydrold	ogynaturally problematic? (If needed, e	xplain any answers in Re	emarks.)				
SUMMARY OF FINDINGS – Attach	site map showing sampling point loca	tions, transects, im	nportant features, etc.				
Hydrophytic Vegetation Present?	Yes X No Is the Sampled Area						
I	Yes X No within a Wetland?	Yes X	No				
l ·	Yes X No						
Rainfall conditions for Clay County were high inches of rainfall was recorded at the site dur	er than normal for January and are 5.94 inches aboing the prior week.	ve average for the prior	12 months. An average 1.86				
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)	Surface Soil Crac	, ,				
X Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
—— High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)					
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)					
Water Marks (B1)	Oxidized Rhizospheres on Living Roots (C3)						
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows					
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C6)		on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remarks)	X Geomorphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3) X FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)					
Field Observations:			(20) (2.1.1.1,0)				
	No Depth (inches):1						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches): Wetland	d Hydrology Present?	Yes X No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:					
Remarks:							

	Absolute	Absolute Dominant							
ree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:					
. Pinus elliottii	30	Yes	FACW	Number of Dominant Species					
				That Are OBL, FACW, or FAC: (A)					
i				Total Number of Dominant					
				Species Across All Strata: 6 (B)					
i				Percent of Dominant Species					
i				That Are OBL, FACW, or FAC: 83.3% (A/B)					
·	_			Prevalence Index worksheet:					
i				Total % Cover of: Multiply by:					
	30	=Total Cover		OBL species 27 x 1 = 27					
50% of total cover:	15 20%	of total cover:	6	FACW species 105 x 2 = 210					
Sapling/Shrub Stratum (Plot size: 10m x 10m)			FAC species 20 x 3 = 60					
. Pinus palustris	10	No	FACU	FACU species 45 x 4 = 180					
. Ilex glabra	50	Yes	FACW	UPL species 0 x 5 = 0					
S. Vaccinium corymbosum	20	Yes	FACW	Column Totals: 197 (A) 477 (B)					
Serenoa repens	5	No	FACU	Prevalence Index = B/A = 2.42					
. Persea palustris	5	No	FACW	Hydrophytic Vegetation Indicators:					
				1 - Rapid Test for Hydrophytic Vegetation					
				X 2 - Dominance Test is >50%					
·				X 3 - Prevalence Index is ≤3.0 ¹					
	90 :	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)					
50% of total cover:		of total cover:	18	Troblematic riyarophytic vegetation (Explain)					
Herb Stratum (Plot size: 10m x 10m)		or total cover.							
. Pteridium aquilinum	25	Yes	FACU	1					
	25	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
	20	Yes	FAC	Definitions of Four Vegetation Strata:					
<u> </u>	20 2								
Hypericum tetrapetalum		No No	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of					
. Vaccinium myrsinites	5	<u>No</u>	<u>FACU</u>	height.					
i				, s					
·				Sapling/Shrub – Woody plants, excluding vines, less					
l				than 3 in. DBH and greater than 3.28 ft (1 m) tall.					
l									
0				Herb – All herbaceous (non-woody) plants, regardless					
1				of size, and woody plants less than 3.28 ft tall.					
2									
	=	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in					
50% of total cover:	39 20%	of total cover:	16	height.					
Voody Vine Stratum (Plot size: 10m x 10m)									
i									
i				Hydranbytia					
		=Total Cover		Hydrophytic Vegetation					
50% of total cover:	20%	of total cover:		Present? Yes X No					
Remarks: (If observed, list morphological adaptati latural recruitment of pine species followed histor	,	odv vine stratu	m observed v	within plot.					
	5	, Stratu		1					

Sampling Point: W35_WD1

SOIL Sampling Point: W35_WD1

	iption: (Describe to	o the dept				tor or co	onfirm the absence	of indicators.)			
Depth	Matrix			x Featur		1 - 2	T 4	Demonstr			
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks			
1-12	10YR 2/1	100					Sandy				
								· 			
¹ Type: C=Coi	 ncentration, D=Deple	etion. RM=I	Reduced Matrix. N	 IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.			
	idicators: (Applicat							for Problematic Hydric Soils ³ :			
Histosol (Thin Dark Su			S, T, U)		Muck (A9) (LRR O)			
	pedon (A2)		Barrier Island					Muck (A10) (LRR S)			
Black His			(MLRA 15		-	,		Prairie Redox (A16)			
— Hydrogen	Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)			
	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduc	ced Vertic (F18)			
	Bodies (A6) (LRR, P,	T, U)	Depleted Ma	trix (F3))		(out	side MLRA 150A, 150B)			
5 cm Muc	ky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	sence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anom	alous Bright Floodplain Soils (F20)			
1 cm Muc	k (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Parent Material (F21)				
Thick Dar	k Surface (A12)		Depleted Oc	hric (F1	1) (MLR A	151)	Very Shallow Dark Surface (F22)				
	irie Redox (A16) (M		Iron-Mangan	ese Ma	sses (F12	2) (LRR C					
	ıcky Mineral (S1) (LF	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
	eyed Matrix (S4)		Delta Ochric	. , .		•	(MLRA 153B, 153D)				
Sandy Re			Reduced Ve	•	, ,						
	Matrix (S6)		Piedmont Flo								
_	ace (S7) (LRR P, S,		Anomalous E	-							
	Below Surface (S8)		(MLRA 14				³ Indicators of hydrophytic vegetation and				
(LRR S	, I, U)		Very Shallow		`	,	wetland hydrology must be present, unless disturbed or problematic.				
Do atalastica I	(' .f. - l		(MLRA 13	0, 152A	in FL, 1	0 4)	unless disturbed of problematic.				
	ayer (if observed):										
· -	lone						Ukadala Osil Basa	was V. Na			
Depth (inc							Hydric Soil Pres	ent? Yes X No			
Remarks:	torminated at 12 inch	aca dua ta	high water table /	\roo with	ain tha al	at ia bada	lad and furroused N	o evidence of recent soil alteration.			
Soil boiling is	lemmaleu al 12 mci	ies due to	nigri water table. F	Alea Will	iiii iiie pi	ot is beat	ied and fullowed. N	o evidence of recent son alteration.			



W35_WD1



Project/Site: Trail Ridge South		City/County: Clay		Sampling Date: 01/31/19				
Applicant/Owner: The Chemours Compan	y FC, LLC		State: FL	Sampling Point: W35_UD1				
Investigator(s): D. LeJeune, D. Sank	Sect	ion, Township, Range:	 197. 23					
Landform (hillside, terrace, etc.): hillside		elief (concave, convex, n		Slope (%): 0-2				
Subregion (LRR or MLRA): LRR T, MLRA 15:		•	2° 2' 31.74"W	Datum: WGS 84				
		Long. <u>-02</u>						
Soil Map Unit Name: Leon fine sand, 0-2 perd	•		NWI classificat	· ·				
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)				
Are Vegetation, Soil, or Hydrold			cumstances" present?	Yes X No				
Are Vegetation, Soil, or Hydrold	gynaturally problemate	tic? (If needed, expl	ain any answers in Re	emarks.)				
SUMMARY OF FINDINGS - Attach	site map showing sam	pling point locatio	ns, transects, im	portant features, etc.				
Hydrophytic Vegetation Present?	es X No	Is the Sampled Area						
		within a Wetland?	Yes	No X				
•	es X No							
Remarks:								
Rainfall conditions for Clay County were high	•			_				
inches of rainfall was recorded at the site duri some areas the furrows may intercept the sea	.	,						
on the bed. Beds and furrows in some areas	o .	0	•					
cross slope, this can result in ponding of wate								
LIVEROLOGY								
HYDROLOGY								
Wetland Hydrology Indicators:	المراجعة المحالة المحالة عامماله المحالم	<u> </u>	•	(minimum of two required)				
Primary Indicators (minimum of one is require Surface Water (A1)	Aquatic Fauna (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)						
X High Water Table (A2)	Marl Deposits (B15) (LRF	 : : : : : : : : : : : : : : : : : :						
X Saturation (A3)	Hydrogen Sulfide Odor (0							
Water Marks (B1)	Oxidized Rhizospheres o							
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows					
Drift Deposits (B3)	Recent Iron Reduction in	- · · · · · -		on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	<u> </u>						
Iron Deposits (B5)	Other (Explain in Remark	_						
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test (D5)						
Water-Stained Leaves (B9)		Sphagnum Moss (D8) (LRR T,U)						
Field Observations:								
Surface Water Present? Yes	No X Depth (inches):							
Water Table Present? Yes X	No Depth (inches):	9						
Saturation Present? Yes X	No Depth (inches):	9 Wetland H	ydrology Present?	Yes _ X _ No				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, pre	evious inspections), if ava	ailable:					
Remarks:								
The natural landform has been converted for	silviculture practices.							
	•							

T 01 1 (DI 1 1 10 10)	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10m x 10m)	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus elliottii	15	Yes	FACW_	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.				
i.				Total Number of Dominant Species Across All Strata: 2 (B)
i				Percent of Dominant Species
S				That Are OBL, FACW, or FAC:100.0% (A/B)
·				Prevalence Index worksheet:
J				Total % Cover of: Multiply by:
		=Total Cover		OBL species 0 x 1 = 0
50% of total cover:		of total cover:	3	FACW species 85 x 2 = 170
Sapling/Shrub Stratum (Plot size: 10m x 10m)			FAC species0 x 3 =0
. <u>Ilex glabra</u>		Yes	FACW	FACU species 20 x 4 = 80
Serenoa repens	10	No	FACU	UPL species 5 x 5 = 25
B. Pinus palustris	10	No	FACU	Column Totals: 110 (A) 275 (B)
. Quercus geminata	5	No	UPL	Prevalence Index = B/A = 2.50
i				Hydrophytic Vegetation Indicators:
)				X 1 - Rapid Test for Hydrophytic Vegetation
,				X 2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 ¹
	95	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	48 20%	of total cover:	19	¹ Indicators of hydric soil and wetland hydrology must b
2.	_			present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in, (7.6 cm) c
i.				
				more in diameter at breast height (DBH), regardless o
				more in diameter at breast height (DBH), regardless o height. Sapling/Shrub – Woody plants, excluding vines, less
i				more in diameter at breast height (DBH), regardless o height.
3				more in diameter at breast height (DBH), regardless o height. Sapling/Shrub – Woody plants, excluding vines, less
i. i. i. i. i. i.				more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
6. 7. 8. 9. 0.				more in diameter at breast height (DBH), regardless o height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
6. 7. 8. 9. 0.		=Total Cover		more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
6. 7. 8. 9. 0.		=Total Cover		more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5	20%			more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
5	20%			more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
5	20%			more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
5	20%			more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
5	20%			more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in
5	20%			more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
5	20%			more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.
50% of total cover:	20%	of total cover:		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine – All woody vines greater than 3.28 ft in height.

Sampling Point: W35_UD1

SOIL Sampling Point: W35_UD1

	ription: (Describe t	o the dept				ator or co	nfirm the absence	of indic	ators.)			
Depth (inches)	epth Matrix			Feature		1002	Toytura	Remarks				
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remaining soil unmas			OVD 0/4	
0-7	10YR 3/1	60	-				Sandy	Rema	aining soli un	masked 1	UYR 6/1	
7-8	10YR 4/1	60					Sandy	Remaining soil unmaske		masked 1	0YR 6/1	
8-16	10YR 4/1	90	10YR 6/1	10	<u>D</u>	M	Sandy					
	oncentration, D=Depl					d Grains.			e Lining, M=I			
-	ndicators: (Applical	ble to all L							blematic Hy	dric Soils	s ³ :	
Histosol			Thin Dark Su	-) (LRR O)			
	ipedon (A2)		Barrier Island		-	12)			0) (LRR S)			
Black His			(MLRA 153						Redox (A16)			
	n Sulfide (A4)		Loamy Mucky	•	· , ·	.RR O)	•		RA 150A)			
	Layers (A5)	T	Loamy Gleye		(F2)			ed Vertic		0D)		
	Bodies (A6) (LRR, P, cky Mineral (A7) (LR		— Depleted Mat		(E6)		•		RA 150A, 15 dplain Soils (,	D D T\	
	esence (A8) (LRR U)		Depleted Dark		` '						-	
	ck (A9) (LRR P, T)		Redox Depre		` '		Anomalous Bright Floodplain Soils (F20) (MLRA 153B)					
	Below Dark Surface	(A11)	Marl (F10) (L		/		Red Parent Material (F21)					
	rk Surface (A12)	()	Depleted Och		i) (MLRA	A 151)	Very Shallow Dark Surface (F22)					
Coast Pr	airie Redox (A16) (M	LRA 150A)), P, T) (outs	ide ML	de MLRA 138, 152A in FL, 154)			
Sandy M	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)					
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (N	ILRA 15	1)	(MLRA 153B, 153D)					
Sandy R	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 15	0B) Other (Explain	in Remarks)			
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)					
	face (S7) (LRR P, S ,		Anomalous B	-								
	e Below Surface (S8))	(MLRA 149				³ Indicators of hydrophytic vegetation and					
(LRR S	S, T, U)		Very Shallow		`	,	wetland hydrology must be present,					
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.					
	.ayer (if observed):											
	None						Unadada Onli Bassa	40	V	NI -	v	
Depth (in							Hydric Soil Prese	ent?	Yes	No _	<u>×</u>	
Remarks: Soil boring is	terminated at 16 incl	hes due to	high water table A	rea with	in the pl	ot is bedd	ed and furrowed No	eviden	ce of recent s	soil alterat	tion	
con borning to	tommutod at 10 moi	100 440 10	ingii water table. 7	ilou Witi	ило ра	or io bodo	ou una farromou. 110	OTIGOTI	00 01 1000111	7011 GILOTGI		



W35_UD1

