

U.S. Army Corps of Engineers – Charleston District - Regulatory Division
REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD) / DELINEATION
 (For Jurisdictional Status and Identifying Wetlands and Other Aquatic Resources)

I. PROPERTY AND AGENT INFORMATION

A. Site Details/Location:

Site Name: Fairfield I-77 Development Date: February 25, 2021
 City/Township/Parish: Ridgeway County: Fairfield
 Latitude/Longitude: 34.3185N, -81.0165W Acreage: 416.76
 Tax Map Sequence (TMS) #(s): Three (3) Fairfield County Tax Parcels (Appendix D)
 Property Address(es): North of SC Highway 34 and east of Barber Road

Please attach a survey/plat map and vicinity map identifying location and review area for the JD/delineation.
 An accurate depiction of the review area must be provided (survey, tax map, or GPS coordinates). Tax maps may only be used if the site includes the entire tax map parcel.

B. Requestor of Jurisdictional Determination/Delineation (if there are multiple property owners, please attach additional pages)

Name: Bruce Smith, Greenfield Project Manager
 Company Name (if applicable): Luck Companies
 Address: PO Box 29682 Richmond, VA 23242
 Phone: 804-476-6406 Email: brucesmith@luckcompanies.com
 Check one: I currently own this property
 I plan to purchase this property
 Other, please explain Due diligence

C. Agent/Environmental Consultant Acting on Behalf of the Requestor (if applicable):

Consultant/Agent Name: Chris Daves, P.W.S.
 Company Name: S&ME, Inc.
 Address: 134 Suber Road Columbia, SC 29210 Phone: 803-561-9024
 Email: cdaves@smeinc.com

II. REASON FOR REQUEST (check all that apply)

- I intend to construct/develop a project or perform activities on this site which would be designed to avoid all aquatic resources.
- I intend to construct/develop a project or perform activities on this site which would be designed to avoid all jurisdictional aquatic resources under Corps authority.
- I intend to construct/develop a project or perform activities on this site which may require authorization from the Corps, and the Jurisdictional Determination would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
- I intend to construct/develop a project or perform activities on this site which may require authorization from the Corps; this request is accompanied by my permit application and the jurisdictional determination is to be used in the permitting process.
- I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is subject to the ebb and flow of the tide.
- A Corps jurisdictional determination is required in order to obtain my local/state authorization.
- I intend to contest jurisdiction over a particular aquatic resource and the request the Corps to confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
- I believe that the site may be comprised entirely of dry land.
- Other: _____

Charleston Office: US Army Corps of Engineers Regulatory Division 69A Hagood Avenue Charleston, SC 29403 (ph) 843-329-8044	Columbia Office: US Army Corps of Engineers Regulatory Office 1835 Assembly Street, Room 865 B-1 Columbia, SC 29201 (ph) 803-253-3444	Conway Office: US Army Corps of Engineers Regulatory Office 1949 Industrial Park Road, Room 140 Conway, SC 29526 (ph) 843-365-4239
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***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.
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 jurisdictional determination cannot be evaluated nor can a jurisdictional determination be issued.

III. TYPE OF REQUEST:

Delineation Concurrence¹

Approved² Jurisdictional Determination (AJD) Only

Preliminary³ Jurisdictional Determination (PJD) Only

Approved Jurisdictional Determination (AJD) with submittal of a Pre-Construction Notification or Department of the Army permit application

Preliminary Jurisdictional Determination (PJD) with submittal of a Pre-Construction Notification or Department of the Army permit application

Delineation of Wetlands and/or Other Aquatic Resources Only Conducted By Agent/Environmental Consultant with submittal of a Pre-Construction Notification or Department of the Army permit application (No jurisdictional determination requested)

I request that the Corps delineate the wetlands and/or other aquatic resources that may be present on my property with the attached Pre-Construction Notification or Department of the Army permit application

I request that the Corps delineate the wetlands and/or other aquatic resources that may be present on my property with a Delineation Only, an AJD or PJD

"No Permit Required" (NPR) Letter as I believe my proposed activity is not regulated⁴

Unclear as to which jurisdictional determination I would like to request and require additional information to inform my decision

¹ Delineation Concurrence (DC) – A DC provides concurrence that the delineated boundaries of wetlands on a property are a reasonable representation of the aquatic resources on-site. A DC does not address the jurisdictional status of the aquatic resources.

² Approved – 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.

³ Preliminary – 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.

⁴ "No 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.

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.

134 Suber Road, Columbia, SC 29210

Mailing Address

cdaves@smeinc.com

Email Address



*Signature:

Three Fairfield Co. TPNs (See Appendix D)

Property Address / TMS #(s)

803-561-9024

Daytime Phone Number

Chris Daves, P.W.S.

Printed Name and Date

*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.

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



February 25, 2021

U.S. Army Corps of Engineers
Columbia Regulatory Office
Strom Thurmond Federal Bldg.
1835 Assembly Street, Room 865 B-1
Columbia, SC 29201

Attention: Columbia Regulatory Project Manager

Reference: **Request for Jurisdictional Determination
Fairfield I-77 Development +/- 416.76 Acres**
Ridgeway, Fairfield County, South Carolina
S&ME Project No. 210730A

Dear Columbia Regulatory Project Manager:

On behalf of Luck Companies, S&ME, Inc. (S&ME) has completed a Wetland Delineation at the above-referenced site. The overall site consists of approximately 416.76 acres and is located north of SC Highway 34 and east of Barber Road in Ridgeway, Fairfield County, South Carolina. The site is represented by three Fairfield County tax parcels, currently owned by various owners (**Appendix D**). Please refer to **Exhibits 1-6** in **Appendix A** for depictions of the site and surrounding features. We are seeking an Approved Jurisdictional Determination for the site.

◆ Wetland Delineation

On January 29, February 3-4, and February 10-11, 2021, S&ME Biologists Chris Daves, P.W.S., Chris Handley, and Will Trotter, conducted the Wetland Delineation. The following features were observed:

- ◆ 16 Jurisdictional Wetlands (a)(4) waters
- ◆ 23 Jurisdictional Tributaries (a)(2) waters
- ◆ 1 Non-Jurisdictional Wetland (b)(1) excluded water
- ◆ 24 Non-Jurisdictional Ephemeral Drainages (b)(3) excluded waters

Jurisdictional Wetlands (a)(4) Waters

Sixteen (16) jurisdictional wetlands (1.18 acres) were observed on the site (Photographs 1-8). These wetlands are classified as riparian abutting forested wetlands, headwater wetlands (forested, scrub-shrub), and linear wetlands.



Jurisdictional Tributaries (a)(2) Waters

Twenty-three (23) jurisdictional tributaries (16,314 LF/1.93 acres) were observed on the site (Photographs 8-16). The tributaries consisted of seven perennial and 16 seasonal/intermittent channels. The tributaries had varying widths and substrates including sands, gravel, cobbles, boulders, and bedrock. According to the U.S. Geological Survey (USGS) topographic mapping, six blue-line stream features were located on the site. Each blue-line stream feature was observed on the site, including Dutchman's Creek.

Non-Jurisdictional Features

Ephemeral Drainages (b)(3) Waters

Twenty-four (24) ephemeral drainages (8,024 LF) was observed on the site (Photographs 17-20). These features are ephemeral in nature and did not exhibit flow or an ordinary high-water mark (OHWM).

Non-Abutting Wetlands (b)(1) Waters

One (1) non-abutting, non-jurisdictional wetland (0.03 acre) was observed on the site (Photographs 21-22). The non-jurisdictional wetland was determined to be closed boundary polygon that is not contiguous or directly abutting an (a)(1)-(a)(3) water. In addition, the wetland does not meet any of the other (a)(4) criteria for adjacency and thus is an excluded water pursuant to (b)(1).

In summary, the site contains approximately **3.11 acres** of JWOUS.

◆ Uplands

Upland areas on the site consist of planted pine forestland, pine-mixed hardwoods, mixed hardwoods, cutover forestland, and a utility easement. These portions of the site consist of the non-hydric soil series Appling, Cecil, Hiwassee, Pacolet, Wilkes, and Winnsboro as listed in the Soil Survey of Chester and Fairfield Counties, South Carolina and the U.S. Department of Agriculture - Natural Resources Conservation Service (USDA-NRCS) Web Soil Survey (Exhibit 4 – Soils Exhibit). Wetland vegetation, hydric soils, or hydrology were not observed in the upland areas.

◆ Enclosures

Attached in Appendices A-E, please find the following information for your review:

Appendix A

Exhibit 1 - Vicinity Exhibit, Exhibit 2 - Topographic Exhibit, Exhibit 3 (sheets 1-18) - Aerial Exhibits, Exhibit 4 - Soils Exhibit, Exhibit 5 - NWI Exhibit, Exhibit 6 – LIDAR Exhibit, Site Photographs

Appendix B

Wetland/Upland Datasheets



Appendix C

Approved JD Form

Appendix D

Owner Information

Appendix E

Antecedent Precipitation Tool

◆ Closing

Thank you for your time and attention to this project. If we can provide additional information, please do not hesitate to contact us at 803-561-9024.

Sincerely,

S&ME

A handwritten signature in black ink that reads "Chris Handley".

Chris Handley
Biologist
chandley@smeinc.com

A handwritten signature in black ink that reads "Chris Daves".

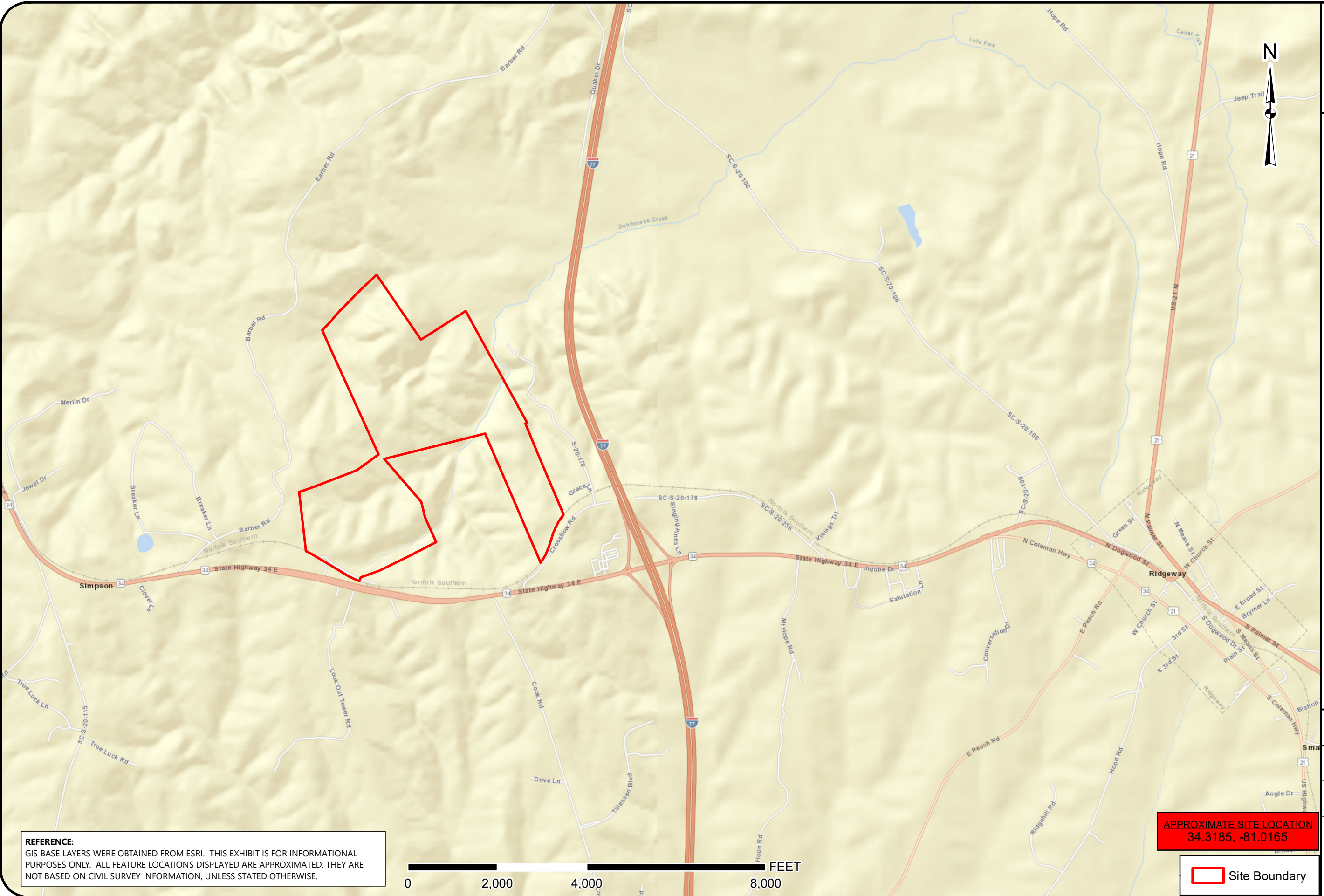
Chris Daves, P.W.S.
Senior Scientist
cdaves@smeinc.com

Attachments

Appendix A

Exhibits and Site Photographs

Drawing Path: T:\ENV\Projects\2021\210730A Luck Stone, Fairfield I-77 Development Due Diligence_Ridgeway SC\GIS\mxd\Fairfield I-77 Development Vicinity Exhibit.mxd plotted by chandley.02-19-2021



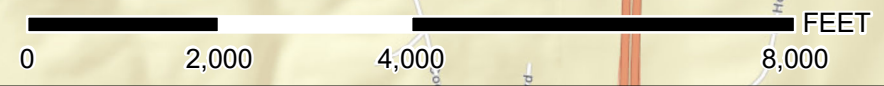
Vicinity Exhibit

Fairfield I-77 Development +/- 416.76 Acres
Ridgeway, Fairfield County, South Carolina
World Street Map

SCALE:
1" = 2,000'
DATE:
2-19-21
PROJECT NUMBER
210730A
EXHIBIT NO.

1

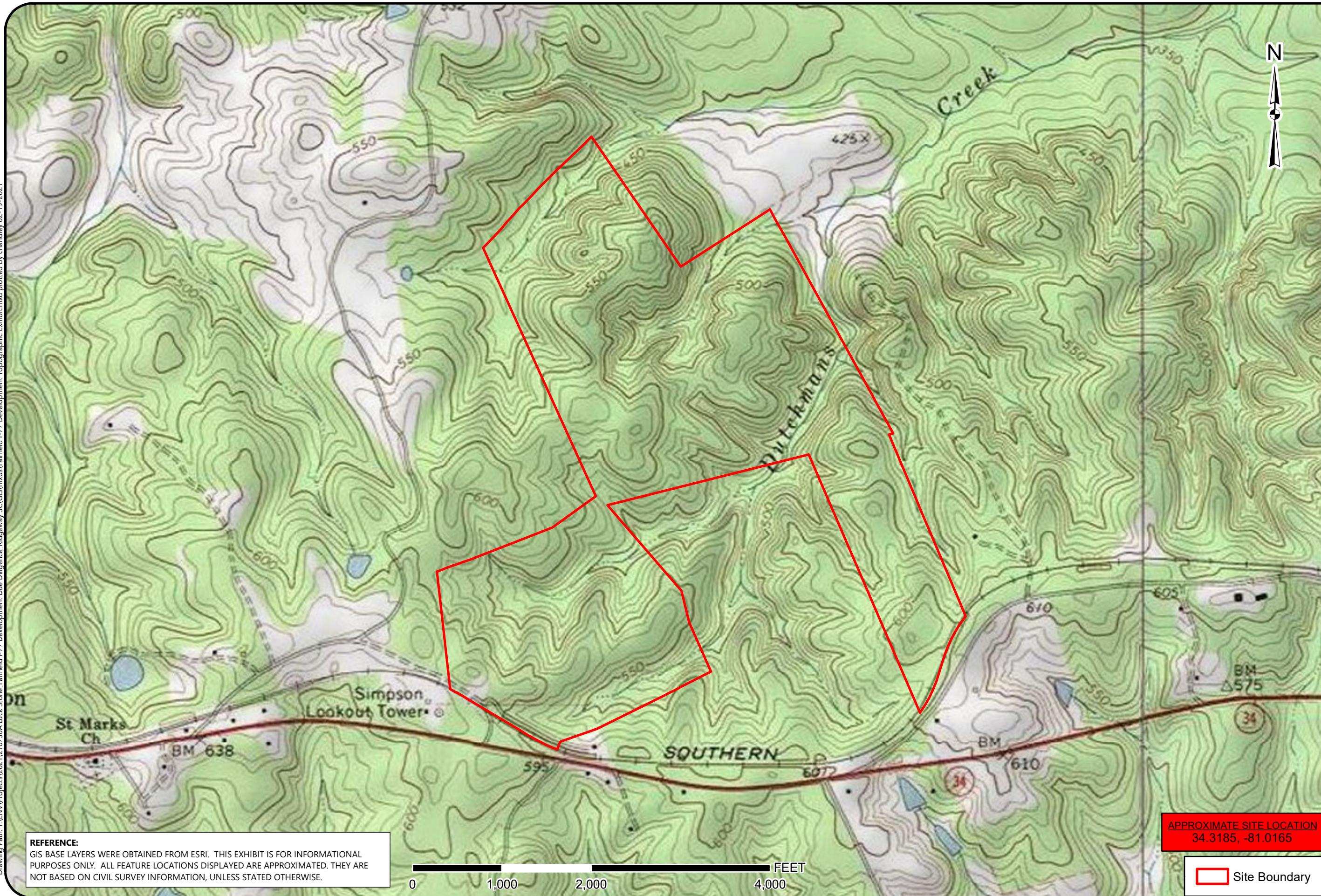
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI. THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.



APPROXIMATE SITE LOCATION
34.3185, -81.0165

Site Boundary

Drawing Path: T:\ENV\Projects\2021\210730A Luck Stone, Fairfield I-77 Development Due Diligence_Ridgeway SC\GIS\mxd\Fairfield I-77 Development Topographic Exhibit.mxd plotted by chandley 02-19-2021



Topographic Exhibit

Fairfield I-77 Development +/- 416.76 Acres
Ridgeway, Fairfield County, South Carolina
USGS 7.5-Minute Topo Quad Winnsboro Mills, SC 1969

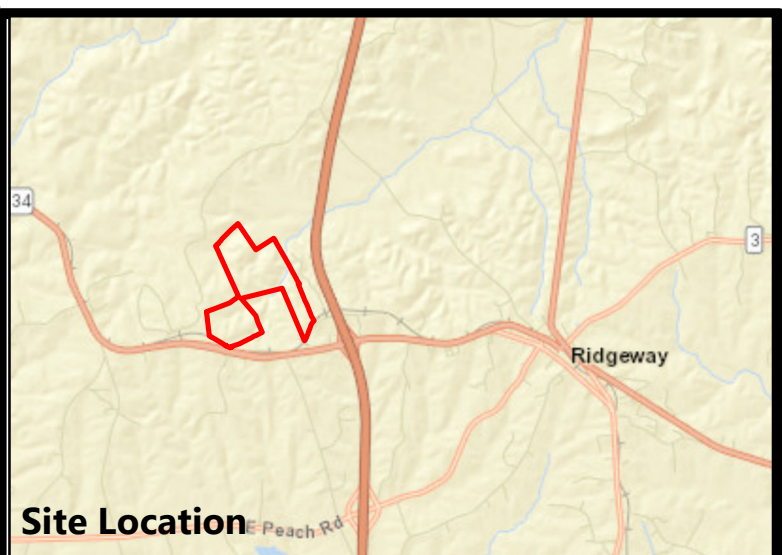
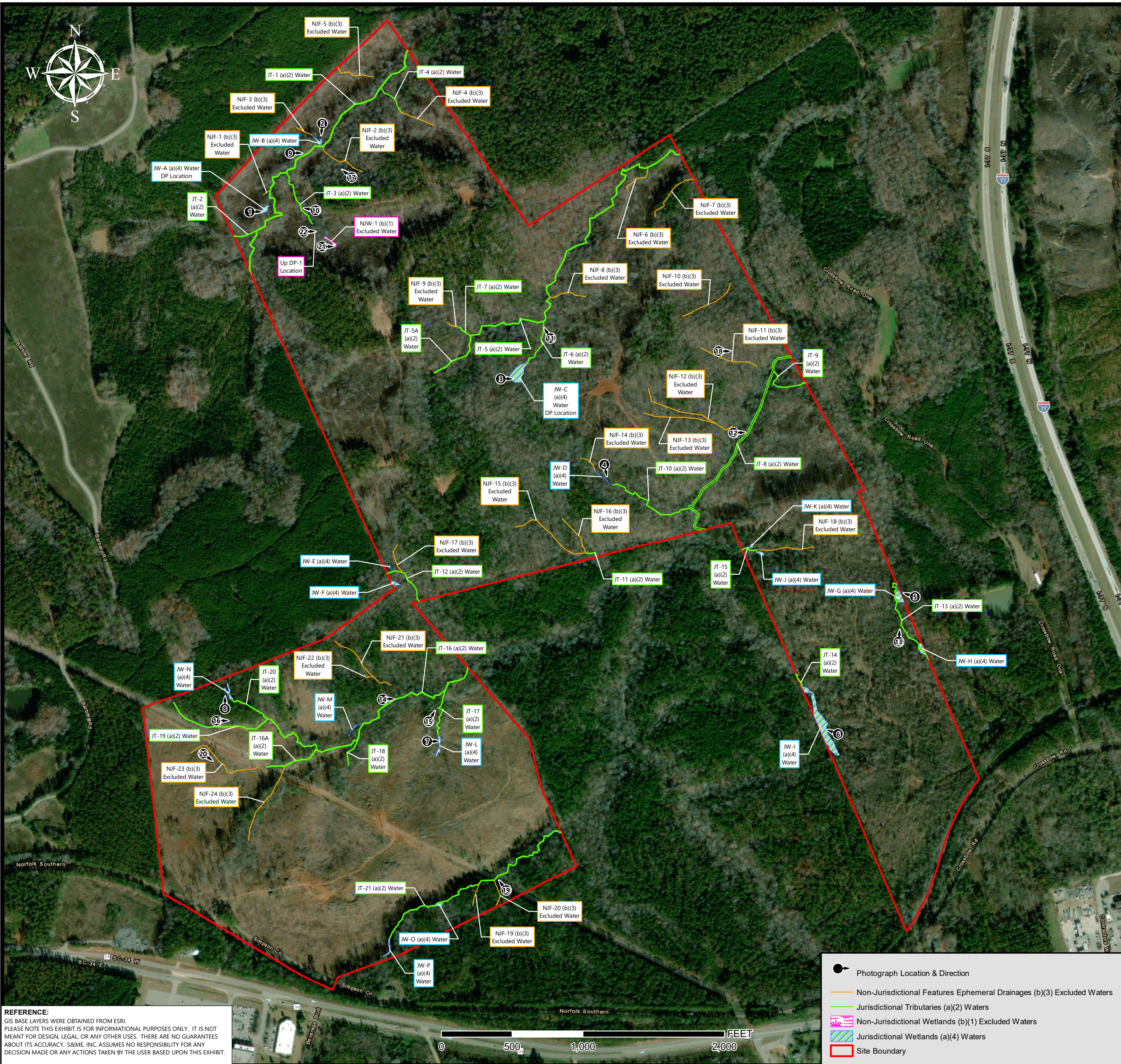
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1" = 1,000'
DATE:
2-19-21
PROJECT NUMBER
210730A
EXHIBIT NO.

2

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI. THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

APPROXIMATE SITE LOCATION
34.3185, -81.0165

 Site Boundary



Potential Feature Estimates	
Jurisdictional Wetlands (a)(4) Waters	
JW-A:	0.04 ac
JW-B:	0.03 ac
JW-C:	0.22 ac
JW-D:	0.02 ac
JW-E:	0.01 ac
JW-F:	0.03 ac
JW-G:	0.08 ac
JW-H:	0.05 ac
JW-I:	0.50 ac
JW-J:	0.02 ac
JW-K:	0.02 ac
JW-L:	0.05 ac
JW-M:	0.01 ac
JW-N:	0.05 ac
JW-P:	0.03 ac
Total Wetlands:	1.18 ac
Jurisdictional Tributaries (a)(2) Waters	
JT-1:	2,373 LF/0.33 ac
JT-2:	161 LF/0.02 ac
JT-3:	434 LF/0.03 ac
JT-4:	237 LF/0.01 ac
JT-5:	2,629 LF/0.30 ac
JT-5A:	349 LF/0.04 ac
JT-6:	349 LF/0.02 ac
JT-7:	96 LF/0.01 ac
JT-8:	1,596 LF/0.44 ac
JT-9:	357 LF/0.03 ac
JT-10:	682 LF/0.05 ac
JT-11:	92 LF/0.01 ac
JT-12:	363 LF/0.03 ac
JT-13:	728 LF/0.05 ac
JT-14:	109 LF/0.01 ac
JT-15:	114 LF/0.01 ac
JT-16:	1,116 LF/0.13 ac
JT-16A:	706 LF/0.08 ac
JT-17:	380 LF/0.03 ac
JT-18:	205 LF/0.01 ac
JT-19:	1,299 LF/0.12 ac
JT-20:	295 LF/0.03 ac
JT-21:	1,644 LF/0.15 ac
Total Tributaries:	16,314 LF/1.93 ac
Non-Jurisdictional Wetland (b)(1) Excluded Water	
NJW-1:	0.03 ac
Non-Jurisdictional Features Ephemeral Drainages (b)(3) Excluded Waters	
24 total (see AJD Form for Details): 8,024 LF	
Total Site Acreage: 416.76	
Total WOUS: 3.11	
Total Uplands: 413.65	

**AERIAL EXHIBIT
FAIRFIELD I-77 DEVELOPMENT +/- 416.76 Acres
RIDGEWAY, FAIRFIELD CO., SC**

DRAWN BY:	CH	CHECKED BY:	CD
PROJECT NO:	210730A		
SCALE:	1 in = 500 ft	Date:	2/25/2021



EXHIBIT NO.

3

Drawing Path: T:\ENVA\Projects\2021\1210730A_Luck_Some_Fairfield_I-77 Development Due Diligence, Ridgeway, SC\GIS\mxd\17422_ID_Aerial Exhibit-I-77 Development.mxd plotted by chandley 02-25-2021

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI.
PLEASE NOTE THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON THIS EXHIBIT.

Drawing Path: T:\ENV\Projects\2021\210730A Luck Stone, Fairfield I-77 Development Due Diligence_Ridgeway SC\GIS\mxd\Fairfield I-77 Development Soils Exhibit.mxd plotted by chandley 02-24-2021



Soils Exhibit

Fairfield I-77 Development +/- 416.76 Acres
Ridgeway, Fairfield County, South Carolina
World Imagery 2018 & SCDNR (Soils Data)

SCALE:

1" = 800'

DATE:

2-24-21

PROJECT NUMBER

210730A

EXHIBIT NO.

4

- Soils**
- ApC - Appling Loamy Sand (6-10% slopes)
 - CeB - Cecil Sandy Loam (2-6% slopes)
 - CnC2 - Cecil Sandy Clay Loam (6-10% slopes)
 - Cw - Chewacla Loam
 - HsB - Hiwassee Sandy Loam (2-6% slopes)
 - PaE - Pacolet Sandy Loam (10-25% slopes)
 - WkD - Wilkes Sandy Loam (6-15% slopes)
 - WnB - Winnsboro Sandy Loam (2-6% slopes)
 - WnC - Winnsboro Sandy Loam (6-10% slopes)

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI. THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

- Site Boundary
- Soils



APPROXIMATE SITE LOCATION
34.3185, -81.0165

Drawing Path: T:\ENV\Projects\2021\210730A Luck Stone, Fairfield I-77 Development Due Diligence_Ridgeway SC\GIS\mxds\Fairfield I-77 Development NWI Exhibit.mxd plotted by chandley.02-24-2021



NWI
U41 - Deciduous Upland Forest
U42P - Upland Planted Pine
U43 - Mixed Upland Forest

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI. THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

 Site Boundary
 National Wetlands Inventory (NWI)

APPROXIMATE SITE LOCATION
34.3185, -81.0165

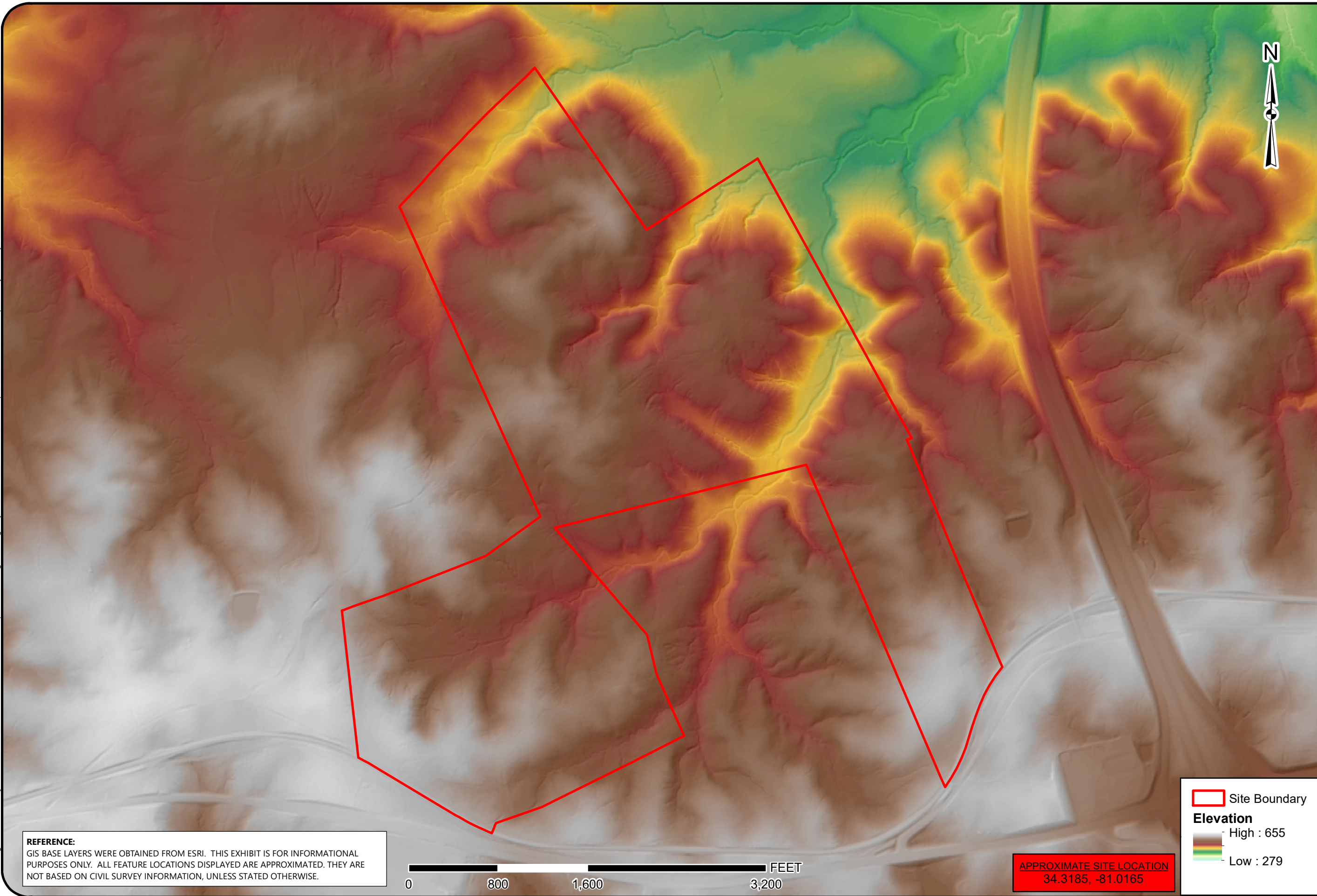


NWI Exhibit

Fairfield I-77 Development +/- 416.76 Acres
Ridgeway, Fairfield County, South Carolina
World Imagery 2018 & SCDNR (NWI Data)

SCALE:
1" = 800'
DATE:
2-24-21
PROJECT NUMBER
210730A
EXHIBIT NO.

Drawing Path: T:\ENV\Projects\2021\210730A Luck Stone, Fairfield I-77 Development Due Diligence_Ridgeway_Sc(GIS\mxd\Fairfield I-77 Development LIDAR Exhibit.mxd plotted by chandley 02-24-2021



LIDAR Exhibit

Fairfield I-77 Development +/- 416.76 Acres
Ridgeway, Fairfield County, South Carolina
World Imagery 2018 & SCDNR (LIDAR Data)

SCALE:
1" = 800'

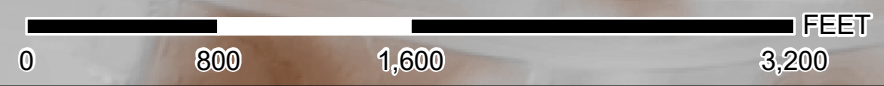
DATE:
2-24-21

PROJECT NUMBER
210730A


EXHIBIT NO.

6


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APPROXIMATE SITE LOCATION
34.3185, -81.0165

 Site Boundary

Elevation

 High : 655

 Low : 279



1 JW-A (non-abutting, natural berm separation)



2 JW-B (abutting)



3 JW-C (headwater)



4 JW-D (linear)



Site Photographs
Fairfield I-77 Development
Ridgeway, Fairfield County, South Carolina

S&ME Project 210730A

Taken by: CD/CH/WT

Date: Jan.-Feb. 2021



5 JW-G (abutting)



6 JW-I (headwater)



7 JW-L (headwater)



8 JW-N (headwater)





9 JT-1 (Perennial)



10 JT-3 (Seasonal/intermittent)



11 JT-6 (seasonal/intermittent)



12 JT-8 (Perennial/Dutchman's Creek)





13 JT-13 (seasonal/intermittent)



14 JT-16 (perennial)



15 JT-17 (seasonal/intermittent)



16 JT-19 (seasonal/intermittent)





17 NJF-2



18 NJF-11



19 NJF-20

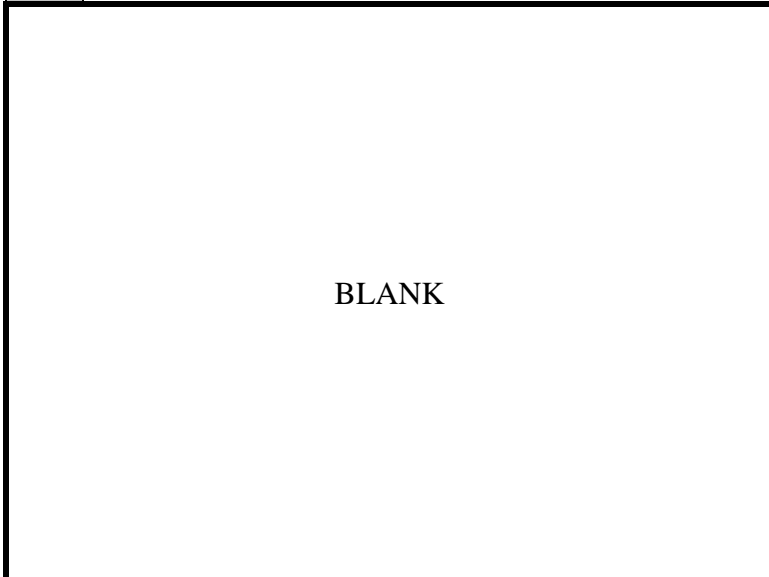


20 NJF-23





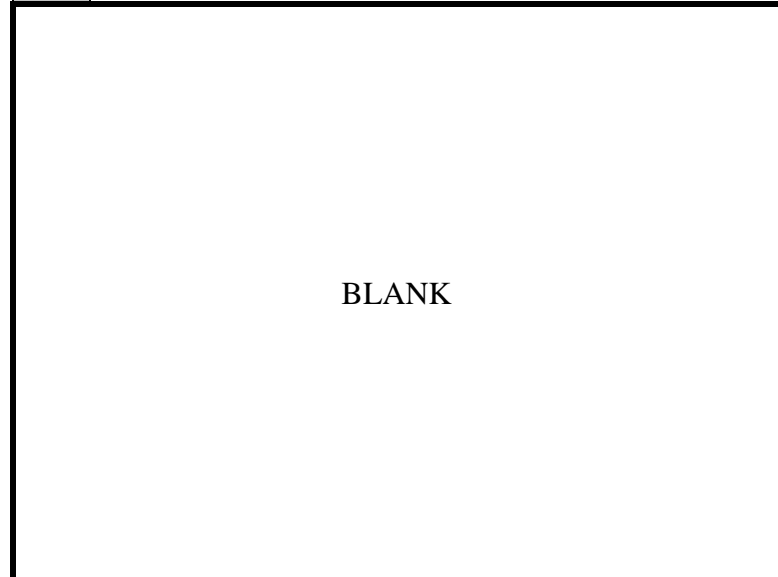
21 NJW-1



23



22 Up DP-1 location (shagbark hickory, white oak, and eastern red cedar) 10YR 6/4 non-hydric soils



24



Appendix B

Wetland and Upland Datasheets

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Fairfield I-77 Development **City/County:** Ridgeway/Fairfield **Sampling Date:** 29-Jan-21
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** Up A
Investigator(s): Chris Daves, P.W.S.-S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): depression **Local relief (concave, convex, none):** concave **Slope:** 0.5% / 0.3 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 34.3222 **Long.:** -81.0232 **Datum:** NAD83
Soil Map Unit Name: Cw-Chewacla Loam **NWI classification:** U41

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes 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 <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Data point taken adjacent to JW-A on a natural berm separating JW-A from JT-1.	

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ <small>(includes capillary fringe)</small>		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Wetland hydrology indicators were not observed.			

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

Sampling Point: Up A

Tree Stratum (Plot size: <u>30-ft.</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
1. <u>Quercus rubra</u>	25	<input checked="" type="checkbox"/> 55.6%	FACU	Number of Dominant Species That are OBL, FACW, or FAC: <u>5</u> (A)	
2. <u>Liquidambar styraciflua</u>	20	<input checked="" type="checkbox"/> 44.4%	FAC	Total Number of Dominant Species Across All Strata: <u>10</u> (B)	
3. _____	0	<input type="checkbox"/> 0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)	
4. _____	0	<input type="checkbox"/> 0.0%		Prevalence Index worksheet:	
5. _____	0	<input type="checkbox"/> 0.0%		Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/> 0.0%		OBL species <u>0</u> x 1 = <u>0</u>	
7. _____	0	<input type="checkbox"/> 0.0%		FACW species <u>0</u> x 2 = <u>0</u>	
8. _____	0	<input type="checkbox"/> 0.0%		FAC species <u>55</u> x 3 = <u>165</u>	
	45 = Total Cover			FACU species <u>60</u> x 4 = <u>240</u>	
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)				UPL species <u>0</u> x 5 = <u>0</u>	
1. <u>Cornus florida</u>	10	<input checked="" type="checkbox"/> 33.3%	FACU	Column Totals: <u>115</u> (A) <u>405</u> (B)	
2. <u>Quercus rubra</u>	10	<input checked="" type="checkbox"/> 33.3%	FACU	Prevalence Index = B/A = <u>3.522</u>	
3. <u>Liquidambar styraciflua</u>	10	<input checked="" type="checkbox"/> 33.3%	FAC	Hydrophytic Vegetation Indicators:	
4. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
5. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Dominance Test is > 50%	
6. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
7. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
8. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
9. _____	0	<input type="checkbox"/> 0.0%		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
10. _____	0	<input type="checkbox"/> 0.0%		Definition of Vegetation Strata:	
	30 = Total Cover			Four Vegetation Strata:	
Shrub Stratum (Plot size: <u>15-ft.</u>)				Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
1. <u>Juniperus virginiana</u>	10	<input checked="" type="checkbox"/> 50.0%	FACU	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
2. <u>Liquidambar styraciflua</u>	10	<input checked="" type="checkbox"/> 50.0%	FAC	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.	
3. _____	0	<input type="checkbox"/> 0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.	
4. _____	0	<input type="checkbox"/> 0.0%		Five Vegetation Strata:	
5. _____	0	<input type="checkbox"/> 0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
6. _____	0	<input type="checkbox"/> 0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
7. _____	0	<input type="checkbox"/> 0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
8. _____	0	<input type="checkbox"/> 0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height.	
9. _____	0	<input type="checkbox"/> 0.0%		Woody vines – Consists of all woody vines, regardless of height.	
10. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
	20 = Total Cover				
Herb Stratum (Plot size: <u>5-ft.</u>)					
1. <u>Chasmanthium laxum</u>	10	<input checked="" type="checkbox"/> 66.7%	FAC		
2. <u>Lonicera japonica</u>	5	<input checked="" type="checkbox"/> 33.3%	FACU		
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
8. _____	0	<input type="checkbox"/> 0.0%			
9. _____	0	<input type="checkbox"/> 0.0%			
10. _____	0	<input type="checkbox"/> 0.0%			
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
	15 = Total Cover				
Woody Vine Stratum (Plot size: <u>30-ft.</u>)					
1. <u>Bignonia capreolata</u>	5	<input checked="" type="checkbox"/> 100.0%	FAC		
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
	5 = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was not observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features			Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type ¹		
1-3	10YR	4/2	100				Sandy Loam	No Redox features were observed.
3-20	10YR	5/3	100				Sandy Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) (LRR N) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148) <input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) <input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148) <input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 2 cm Muck (A10) (MLRA 147) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soils were not observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Fairfield I-77 Development **City/County:** Ridgeway/Fairfield **Sampling Date:** 29-Jan-21
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** Wet A
Investigator(s): Chris Daves, P.W.S.-S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): depression **Local relief (concave, convex, none):** concave **Slope:** 0.0% / 0.0 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 34.3221 **Long.:** -81.0231 **Datum:** NAD83
Soil Map Unit Name: Cw-Chewacla Loam **NWI classification:** U41

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Data point taken on southeastern side of JW-A. JW-A is separated from JT-1 via a natural berm.	

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>2</u> Saturation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>1</u> <small>(includes capillary fringe)</small>		Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Wetland hydrology indicators were observed.			

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

Sampling Point: Wet A

	Absolute % Cover		Dominant Species? Rel.Strat. Cover	Indicator Status	
Tree Stratum (Plot size: <u>30-ft.</u>)					Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)
1. <u>Acer rubrum</u>	20	<input checked="" type="checkbox"/>	50.0%	FAC	
2. <u>Liquidambar styraciflua</u>	20	<input checked="" type="checkbox"/>	50.0%	FAC	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
40 = Total Cover					
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species <u>55</u> x 3 = <u>165</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>75</u> (A) <u>225</u> (B) Prevalence Index = B/A = <u>3.000</u>
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
9. _____	0	<input type="checkbox"/>	0.0%	_____	
10. _____	0	<input type="checkbox"/>	0.0%	_____	
0 = Total Cover					
Shrub Stratum (Plot size: <u>15-ft.</u>)					Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Liquidambar styraciflua</u>	5	<input checked="" type="checkbox"/>	33.3%	FAC	
2. <u>Juniperus virginiana</u>	5	<input checked="" type="checkbox"/>	33.3%	FACU	
3. <u>Quercus falcata</u>	5	<input checked="" type="checkbox"/>	33.3%	FACU	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
15 = Total Cover					
Herb Stratum (Plot size: <u>5-ft.</u>)					
1. <u>Juncus effusus</u>	10	<input checked="" type="checkbox"/>	66.7%	FACW	
2. <u>Chasmanthium laxum</u>	5	<input checked="" type="checkbox"/>	33.3%	FAC	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
9. _____	0	<input type="checkbox"/>	0.0%	_____	
10. _____	0	<input type="checkbox"/>	0.0%	_____	
11. _____	0	<input type="checkbox"/>	0.0%	_____	
12. _____	0	<input type="checkbox"/>	0.0%	_____	
15 = Total Cover					
Woody Vine Stratum (Plot size: <u>30-ft.</u>)					
1. <u>Bignonia capreolata</u>	5	<input checked="" type="checkbox"/>	100.0%	FAC	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
5 = Total Cover					
Definition of Vegetation Strata: Four Vegetation Strata: Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall. Woody vines – Consists of all woody vines greater than 3.28 ft in height. Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height. Woody vines – Consists of all woody vines, regardless of height.					
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>					

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²		
1-6	10YR	4/2	90	10YR	5/6	10	C	M	Sandy Loam	
6-20	10YR	5/2	90	10YR	5/6	10	C	M	Sandy Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR N)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p>	<p><input type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)</p> <p><input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)</p> <p><input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soils were observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Fairfield I-77 Development **City/County:** Ridgeway/Fairfield **Sampling Date:** 29-Jan-21
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** Up C
Investigator(s): Chris Handley, S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): hillslope **Local relief (concave, convex, none):** concave **Slope:** 1.0% / 0.6 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 34.3188 **Long.:** -81.0170 **Datum:** NAD83
Soil Map Unit Name: _____ **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes 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 <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Data point taken in upland area adjacent to JW-C on the hillslope.	

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology indicators were not observed.	

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

Sampling Point: Up C

Tree Stratum (Plot size: <u>30-ft.</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
1. <u>Quercus alba</u>	60	<input checked="" type="checkbox"/> 85.7%	FACU	Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A)	
2. <u>Liriodendron tulipifera</u>	10	<input type="checkbox"/> 14.3%	FACU	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____	0	<input type="checkbox"/> 0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)	
4. _____	0	<input type="checkbox"/> 0.0%		Prevalence Index worksheet:	
5. _____	0	<input type="checkbox"/> 0.0%		Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/> 0.0%		OBL species <u>0</u> x 1 = <u>0</u>	
7. _____	0	<input type="checkbox"/> 0.0%		FACW species <u>0</u> x 2 = <u>0</u>	
8. _____	0	<input type="checkbox"/> 0.0%		FAC species <u>0</u> x 3 = <u>0</u>	
	70 = Total Cover			FACU species <u>85</u> x 4 = <u>340</u>	
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)				UPL species <u>20</u> x 5 = <u>100</u>	
1. <u>Carya tomentosa</u>	20	<input checked="" type="checkbox"/> 66.7%	UPL	Column Totals: <u>105</u> (A) <u>440</u> (B)	
2. <u>Fagus grandifolia</u>	10	<input checked="" type="checkbox"/> 33.3%	FACU	Prevalence Index = B/A = <u>4.190</u>	
3. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Indicators:	
4. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
5. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Dominance Test is > 50%	
6. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
7. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
8. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
9. _____	0	<input type="checkbox"/> 0.0%		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
10. _____	0	<input type="checkbox"/> 0.0%		Definition of Vegetation Strata:	
	30 = Total Cover			Four Vegetation Strata:	
Shrub Stratum (Plot size: <u>15-ft.</u>)				Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
1. _____	0	<input type="checkbox"/> 0.0%		Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
2. _____	0	<input type="checkbox"/> 0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.	
3. _____	0	<input type="checkbox"/> 0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.	
4. _____	0	<input type="checkbox"/> 0.0%		Five Vegetation Strata:	
5. _____	0	<input type="checkbox"/> 0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
6. _____	0	<input type="checkbox"/> 0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
7. _____	0	<input type="checkbox"/> 0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
8. _____	0	<input type="checkbox"/> 0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height.	
9. _____	0	<input type="checkbox"/> 0.0%		Woody vines – Consists of all woody vines, regardless of height.	
10. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
	5 = Total Cover				
Woody Vine Stratum (Plot size: <u>30-ft.</u>)					
1. _____	0	<input type="checkbox"/> 0.0%			
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
	0 = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was not observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Up C

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features			Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type ¹		
1-8	10YR	5/4	100				Sandy Loam	
8-20	10YR	6/4	100				Sandy Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) (LRR N) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148) <input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) <input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148) <input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 2 cm Muck (A10) (MLRA 147) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soils were not observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Fairfield I-77 Development **City/County:** Ridgeway/Fairfield **Sampling Date:** 29-Jan-21
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** Wet C
Investigator(s): Chris Handley, S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): base of hillslope **Local relief (concave, convex, none):** concave **Slope:** 0.5% / 0.3 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 34.3189 **Long.:** -81.0172 **Datum:** NAD83
Soil Map Unit Name: PaE - Pacolet Sandy Loam **NWI classification:** U41

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** Are "Normal Circumstances" present? Yes 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Data point taken at base of hillslope on the eastern side of JW-C. JW-C is a headwater forested wetland.	

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input checked="" type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>8</u> Saturation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>1</u> <small>(includes capillary fringe)</small>		Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Wetland hydrology indicators were observed.			

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

Sampling Point: Wet C

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	
Tree Stratum (Plot size: <u>30-ft.</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u>Liquidambar styraciflua</u>	30	<input checked="" type="checkbox"/> 50.0%	FAC	
2. <u>Fraxinus pennsylvanica</u>	30	<input checked="" type="checkbox"/> 50.0%	FACW	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
60 = Total Cover				
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>20</u> x 1 = <u>20</u> FACW species <u>30</u> x 2 = <u>60</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>105</u> (A) <u>250</u> (B) Prevalence Index = B/A = <u>2.381</u>
1. <u>Liquidambar styraciflua</u>	10	<input checked="" type="checkbox"/> 100.0%	FAC	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
10 = Total Cover				
Shrub Stratum (Plot size: <u>15-ft.</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Herb Stratum (Plot size: <u>5-ft.</u>)				Definition of Vegetation Strata: Four Vegetation Strata: Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall. Woody vines – Consists of all woody vines greater than 3.28 ft in height. Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height. Woody vines – Consists of all woody vines, regardless of height.
1. <u>Woodwardia virginica</u>	20	<input checked="" type="checkbox"/> 57.1%	OBL	
2. <u>Smilax rotundifolia</u>	10	<input checked="" type="checkbox"/> 28.6%	FAC	
3. <u>Polystichum acrostichoides</u>	5	<input type="checkbox"/> 14.3%	FACU	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
11. _____	0	<input type="checkbox"/> 0.0%	_____	
12. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Woody Vine Stratum (Plot size: <u>30-ft.</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: Wet C

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features				Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type ¹	Loc ²		
1-20	10YR	4/2	90	10YR	5/6	10	C	M	Sandy Loam

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) (LRR N) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148) <input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) <input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148) <input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 2 cm Muck (A10) (MLRA 147) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soils were observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Fairfield I-77 Development **City/County:** Ridgeway/Fairfield **Sampling Date:** 29-Jan-21
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** UP DP-1
Investigator(s): Chris Handley, S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): hillslope **Local relief (concave, convex, none):** flat **Slope:** 0.0% / 0.0 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 34.3216 **Long.:** -81.0218 **Datum:** NAD83
Soil Map Unit Name: PaE - Pacolet Sandy Loam **NWI classification:** U41

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes 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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Data point taken in between NJW-1 and JT-3. Wetland parameters were not observed.	

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ <small>(includes capillary fringe)</small>		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Wetland hydrology indicators were not observed.			

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

Sampling Point: UP DP-1

Tree Stratum (Plot size: <u>30-ft.</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
1. <u>Carya ovata</u>	50	<input checked="" type="checkbox"/> 71.4%	FACU	Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A)	
2. <u>Liquidambar styraciflua</u>	20	<input checked="" type="checkbox"/> 28.6%	FAC	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)	
4. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet:	
5. _____	0	<input type="checkbox"/> 0.0%	_____	Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>0</u> x 1 = <u>0</u>	
7. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>0</u> x 2 = <u>0</u>	
8. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>65</u> x 3 = <u>195</u>	
	70	= Total Cover		FACU species <u>55</u> x 4 = <u>220</u>	
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)				UPL species <u>0</u> x 5 = <u>0</u>	
1. _____	0	<input type="checkbox"/> 0.0%	_____	Column Totals: <u>120</u> (A) <u>415</u> (B)	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index = B/A = <u>3.458</u>	
3. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Indicators:	
4. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
5. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> Dominance Test is > 50%	
6. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
7. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
8. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
9. _____	0	<input type="checkbox"/> 0.0%	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
10. _____	0	<input type="checkbox"/> 0.0%	_____	Definition of Vegetation Strata:	
	0	= Total Cover		Four Vegetation Strata:	
Shrub Stratum (Plot size: <u>15-ft.</u>)				Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
1. _____	0	<input type="checkbox"/> 0.0%	_____	Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.	
3. _____	0	<input type="checkbox"/> 0.0%	_____	Woody vines – Consists of all woody vines greater than 3.28 ft in height.	
4. _____	0	<input type="checkbox"/> 0.0%	_____	Five Vegetation Strata:	
5. _____	0	<input type="checkbox"/> 0.0%	_____	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
6. _____	0	<input type="checkbox"/> 0.0%	_____	Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
7. _____	0	<input type="checkbox"/> 0.0%	_____	Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
8. _____	0	<input type="checkbox"/> 0.0%	_____	Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height.	
9. _____	0	<input type="checkbox"/> 0.0%	_____	Woody vines – Consists of all woody vines, regardless of height.	
10. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
11. _____	0	<input type="checkbox"/> 0.0%	_____		
12. _____	0	<input type="checkbox"/> 0.0%	_____		
	50	= Total Cover			
Woody Vine Stratum (Plot size: <u>30-ft.</u>)					
1. _____	0	<input type="checkbox"/> 0.0%	_____		
2. _____	0	<input type="checkbox"/> 0.0%	_____		
3. _____	0	<input type="checkbox"/> 0.0%	_____		
4. _____	0	<input type="checkbox"/> 0.0%	_____		
5. _____	0	<input type="checkbox"/> 0.0%	_____		
6. _____	0	<input type="checkbox"/> 0.0%	_____		
	0	= Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: UP DP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
1-20	10YR	6/4	100				Sandy Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) (LRR N) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148) <input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) <input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148) <input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 2 cm Muck (A10) (MLRA 147) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soils were not observed.

Appendix C

Approved JD Form



**U.S. ARMY CORPS OF ENGINEERS
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APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
NAVIGABLE WATERS PROTECTION RULE**

I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): 2/25/2021
 ORM Number: N/A
 Associated JDs: N/A
 Review Area Location¹: State/Territory: SC City: Ridgeway County/Parish/Borough: Fairfield
 Center Coordinates of Review Area: Latitude 34.3185N Longitude -81.0165W

II. FINDINGS

A. Summary: Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding sections/tables and summarize data sources.

- The review area is comprised entirely of dry land (i.e., there are no waters or water features, including wetlands, of any kind in the entire review area). Rationale: N/A or describe rationale.
- There are “navigable waters of the United States” within Rivers and Harbors Act jurisdiction within the review area (complete table in Section II.B).
- There are “waters of the United States” within Clean Water Act jurisdiction within the review area (complete appropriate tables in Section II.C).
- There are waters or water features excluded from Clean Water Act jurisdiction within the review area (complete table in Section II.D).

B. Rivers and Harbors Act of 1899 Section 10 (§ 10)²

§ 10 Name	§ 10 Size	§ 10 Criteria	Rationale for § 10 Determination
N/A.	N/A.	N/A.	N/A.

C. Clean Water Act Section 404

Territorial Seas and Traditional Navigable Waters ((a)(1) waters): ³			
(a)(1) Name	(a)(1) Size	(a)(1) Criteria	Rationale for (a)(1) Determination
N/A.	N/A.	N/A.	N/A.

Tributaries ((a)(2) waters):			
(a)(2) Name	(a)(2) Size	(a)(2) Criteria	Rationale for (a)(2) Determination
JT-1	2,373 linear feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-1 is a naturally occurring unnamed perennial tributary. JT-1 flows into (a)(2) Dutchman’s Creek east of the site and ultimately to the traditional navigable water (TNW) Lake Wateree. During site visits the tributary exhibited strong flow, with associated channel development, sediment

¹ Map(s)/figure(s) are attached to the AJD provided to the requestor.

² If the navigable water is not subject to the ebb and flow of the tide or included on the District’s list of Rivers and Harbors Act Section 10 navigable waters list, do NOT use this document to make the determination. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Rivers and Harbors Act Section 10 navigability determination.

³ A stand-alone TNW determination is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD Form.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
				sorting, and other indications of perennial flow. On this basis JT-1 has been determined to be a tributary with perennial flow and thus an (a)(2) water.
JT-2	161	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-2 is a naturally occurring unnamed intermittent tributary that flows directly into JT-1 (described above), which then flows into Dutchman's Creek located east of the site, which then flows directly into the TNW Lake Wateree. JT-2 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-2 flows during certain times of the year. JT-2 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-2 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-3	434	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-3 is a naturally occurring unnamed intermittent tributary that flows directly into JT-1 (described above), which then flows into Dutchman's Creek located east of the site, which then flows directly into the TNW Lake Wateree. JT-3 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-3 flows during certain times of the year. JT-3 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-3 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-4	237	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-4 is a naturally occurring unnamed intermittent tributary that flows directly into JT-1 (described above), which then flows into Dutchman's Creek located east of the site, which then flows directly into the TNW Lake Wateree. JT-4 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-4 flows during certain times of the year. JT-4 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-4 to be an (a)(2) water of the U.S.
JT-5	2,629	linear feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-5 is a naturally occurring unnamed perennial tributary. JT-5 flows into (a)(2) Dutchman's Creek east of the site and ultimately to the traditional navigable water (TNW) Lake Wateree. During site visits the tributary exhibited strong flow, with associated channel development, sediment sorting, and other indications of perennial flow. On this basis JT5 has been determined to be a tributary with perennial flow and thus an (a)(2) water.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-5A	349	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-5A is a naturally occurring unnamed intermittent tributary that flows directly into JT-5 (described above), which then flows into Dutchman's Creek located east of the site, which then flows directly into the TNW Lake Wateree. JT-5 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-5 flows during certain times of the year. JT-5 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-5 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-6	349	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-6 is a naturally occurring unnamed intermittent tributary that flows directly into JT-5 (described above), which then flows into Dutchman's Creek located east of the site, which then flows directly into the TNW Lake Wateree. JT-6 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-6 flows during certain times of the year. JT-6 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-6 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-7	96	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-7 is a naturally occurring unnamed intermittent tributary that flows directly into JT-5 (described above), which then flows into Dutchman's Creek located east of the site, which then flows directly into the TNW Lake Wateree. JT-7 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-7 flows during certain times of the year. JT-7 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-7 to be an (a)(2) water of the U.S.
JT8	1,596	linear feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-8 is a naturally occurring named (Dutchman's Creek) perennial tributary. JT-8 flows directly to the traditional navigable water (TNW) Lake Wateree. During site visits the tributary exhibited strong flow, with associated channel development, sediment sorting, and other indications of perennial flow. On this basis JT-8 has been determined to be a tributary with perennial flow and thus an (a)(2) water.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-9	357	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-9 is a naturally occurring unnamed intermittent tributary that flows directly into JT-8 (described above), which then flows directly into the TNW Lake Wateree. JT-9 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-9 flows during certain times of the year. JT-9 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-9 to be an (a)(2) water of the U.S.
JT-10	682	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-10 is a naturally occurring unnamed intermittent tributary that flows directly into JT-8 (described above), which then flows directly into the TNW Lake Wateree. JT-10 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-10 flows during certain times of the year. JT-10 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-10 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-11	92	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-11 is a naturally occurring unnamed intermittent tributary that flows directly into Dutchman's Creek off-site, which then flows directly into the TNW Lake Wateree. JT-11 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-11 flows during certain times of the year. JT-11 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-11 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-12	363	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-12 is a naturally occurring unnamed intermittent tributary that flows directly into a perennial tributary (off-site), which then flows into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-12 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-12 flows during certain times of the year. JT-12 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-12 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-13	728	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-13 is a naturally occurring unnamed intermittent tributary that flows directly into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-13 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-13 flows during certain times of the year. JT-13 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-13 to be an (a)(2) water of the U.S.
JT-14	109	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-14 is a naturally occurring unnamed intermittent tributary that flows directly into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-14 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-14 flows during certain times of the year. JT-14 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-14 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-15	114	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-15 is a naturally occurring unnamed intermittent tributary that flows directly into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-15 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-15 flows during certain times of the year. JT-15 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-15 to be an (a)(2) water of the U.S.
JT-16	1,116	linear feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-16 is a naturally occurring unnamed perennial tributary. JT-16 flows into Dutchman's Creek (off-site), which then flows directly to the traditional navigable water (TNW) Lake Wateree. During site visits the tributary exhibited strong flow, with associated channel development, sediment sorting, and other indications of perennial flow. On this basis JT-16 has been determined to be a tributary with perennial flow and thus an (a)(2) water.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-16A	706	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-16A is a naturally occurring unnamed intermittent tributary that flows directly into JT-16 (described above), which flows into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-16A has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-16A flows during certain times of the year. JT-16A satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-16A to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-17	380	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-17 is a naturally occurring unnamed intermittent tributary that flows into JT-16 (described above), which flows directly into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-17 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-17 flows during certain times of the year. JT-17 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-17 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-18	205	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-18 is a naturally occurring unnamed intermittent tributary that flows into JT-16 (described above), which flows directly into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-18 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-18 flows during certain times of the year. JT-18 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-18 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-19	1,299	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-19 is a naturally occurring unnamed intermittent tributary that flows into JT-16 (described above), which flows directly into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-19 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-19 flows during certain times of the year. JT-19 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-19 to be an (a)(2) water of the U.S.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
JT-20	295	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-20 is a naturally occurring unnamed intermittent tributary that flows into JT-19 (described above), which flows into JT-16 (described above), which flows directly into Dutchman's Creek (off-site), which then flows directly into the TNW Lake Wateree. JT-20 has a well-developed OHWM, bed and banks, a well-defined channel, and a series of standing pools of water and shallow subsurface/hyporheic water in the channel at the time of site visit. Based on site evaluation, it has been determined that JT-20 flows during certain times of the year. JT-20 satisfies the flow conditions and criteria included in the tributary definition (c)12 of the NWPR. Therefore, the Corps has determined tributary JT-20 to be an (a)(2) water of the U.S.
JT-21	1,644	linear feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	JT-21 is a naturally occurring named perennial tributary (Dutchman's Creek). JT-21 is the headwaters of Dutchman's Creek, which then flows directly to the traditional navigable water (TNW) Lake Wateree. During site visits the tributary exhibited strong flow, with associated channel development, sediment sorting, and other indications of perennial flow. On this basis JT-21 has been determined to be a tributary with perennial flow and thus an (a)(2) water.

Lakes and ponds, and impoundments of jurisdictional waters ((a)(3) waters):				
(a)(3) Name	(a)(3) Size		(a)(3) Criteria	Rationale for (a)(3) Determination
N/A	N/A	N/A.	N/A.	N/A.
N/A	N/A	N/A.	N/A.	N/A.



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Adjacent wetlands ((a)(4) waters):				
(a)(4) Name	(a)(4) Size		(a)(4) Criteria	Rationale for (a)(4) Determination
JW-A	0.04	acre(s)	(a)(4) Wetland separated from an (a)(1)-(a)(3) water only by a natural feature.	Wetland JW-A is situated behind a natural berm along the banks of JT-1 (described above). On this basis, wetland JW-A is an (a)(4) water.
JW-B	0.03	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-B is contiguous and directly abutting the (a)(2) tributary JT-1 (described above). On this basis, wetland JW-B is an (a)(4) water.
JW-C	0.22	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-C is contiguous and directly abutting an (a)(2) tributary JT-1 (described above). On this basis, wetland JW-B is an (a)(4) water.
JW-D	0.02	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-D is contiguous and directly abutting both the (a)(2) tributary JT-10 (described above). On this basis, wetland JW-D is an (a)(4) water.
JW-E	0.01	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-E is contiguous and directly abutting an (a)(2) tributary JT-12 (described above). On this basis, wetland JW-E is an (a)(4) water.
JW-F	0.03	acre(s)	(a)(4) Wetland separated from an (a)(1)-(a)(3) water only by a natural feature.	Wetland JW-A is situated behind a natural berm along the banks of JT-12 (described above). On this basis, wetland JW-F is an (a)(4) water.
JW-G	0.08	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-G is contiguous and directly abutting an (a)(2) tributary JT-13 (described above). On this basis, wetland JW-G is an (a)(4) water.
JW-H	0.05	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-H is contiguous and directly abutting an (a)(2) tributary JT-13 (described above). On this basis, wetland JW-H is an (a)(4) water.
JW-I	0.50	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-I is contiguous and directly abutting an (a)(2) tributary JT-14 (described above). On this basis, wetland JW-I is an (a)(4) water.
JW-J	0.02	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-J is contiguous and directly abutting an (a)(2) tributary JT-15 (described above). On this basis, wetland JW-J is an (a)(4) water.
JW-K	0.02	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-K is contiguous and directly abutting an (a)(2) tributary JT-15 (described above). On this basis, wetland JW-K is an (a)(4) water.
JW-L	0.05	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-L is contiguous and directly abutting an (a)(2) tributary JT-17 (described above). On this basis, wetland JW-L is an (a)(4) water.
JW-M	0.01	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-M is contiguous and directly abutting an (a)(2) tributary JT-16 (described above). On this basis, wetland JW-M is an (a)(4) water.



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Adjacent wetlands ((a)(4) waters):				
(a)(4) Name	(a)(4) Size		(a)(4) Criteria	Rationale for (a)(4) Determination
JW-N	0.05	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-N is contiguous and directly abutting an (a)(2) tributary JT-20 (described above). On this basis, wetland JW-N is an (a)(4) water.
JW-O	0.02	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-O is contiguous and directly abutting an (a)(2) tributary JT-21 (described above). On this basis, wetland JW-O is an (a)(4) water.
JW-P	0.03	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Wetland JW-P is contiguous and directly abutting an (a)(2) tributary JT-21 (described above). On this basis, wetland JW-P is an (a)(4) water.

D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
NJW-1	0.03	acre(s)	(b)(1) Non-adjacent wetland.	Wetland is a closed boundary polygon that is not contiguous or directly abutting an (a)(1)-(a)(3) water. In addition, this wetland does not meet any of the other (a)(4) criteria for adjacency and thus is an excluded water pursuant to (b)(1).
NJF-1	58	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-2	355	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-3	118	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-4	243	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.

⁴ Some excluded waters, such as (b)(2) and (b)(4), may not be specifically identified on the AJD form unless a requestor specifically asks a Corps district to do so. Corps districts may, in case-by-case instances, choose to identify some or all of these waters within the review area.

⁵ Because of the broad nature of the (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion, four sub-categories of (b)(1) exclusions were administratively created for the purposes of the AJD Form. These four sub-categories are not new exclusions, but are simply administrative distinctions and remain (b)(1) exclusions as defined by the NWPR.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination	
NJF-5	288	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-6	256	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-7	425	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-8	264	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-9	99	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-10	429	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-11	429	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-12	714	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
NJF-13	514	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-14	147	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-15	612	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-16	308	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-17	216	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-18	413	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-19	152	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-20	189	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
NJF-21	533	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-22	71	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-23	594	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.
NJF-24	595	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Feature lacked hydrological indicators of flow greater than ephemeral (flowing only in direct response to precipitation and non-channelized sheet flow recharge). Feature originates in uplands, exhibited no OHWM, and had abundant leaf litter and debris within the streambed.

III. SUPPORTING INFORMATION

A. Select/enter all resources that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.

Information submitted by, or on behalf of, the applicant/consultant: Jurisdictional Determination Request (AJD), prepared by S&ME, Inc., dated February 25, 2021.

This information is sufficient for purposes of this AJD.

Rationale: N/A.

Data sheets prepared by the Corps: Title(s) and/or date(s).

Photographs: Other: Photographs provided in AJD submittal package. Photographs taken on January 29, February 3-4, and February 10-11, 2021.

Corps site visit(s) conducted on: Date(s).

Previous Jurisdictional Determinations (AJDs or PJDs): N/A

Antecedent Precipitation Tool: provide detailed discussion in Section III.B.

USDA NRCS Soil Survey: Chester and Fairfield Counties, dated 1982.

USFWS NWI maps: Winnsboro Mills, SC Quad.

USGS topographic maps: USGS 7.5-Minute Topo Quad Winnsboro Mills, SC 1969.

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information
<u>USGS Sources</u>	<u>N/A.</u>



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Data Source (select)	Name and/or date and other relevant information
USDA Sources	N/A.
NOAA Sources	N/A.
USACE Sources	N/A.
State/Local/Tribal Sources	N/A.
Other Sources	Fairfield County LIDAR Data (SCDNR).

- B. Typical year assessment(s):** Anteprecedent Precipitation Tool (APT) was used to determine that the site and surrounding areas were in “Wetter than Normal” at the commencement of field work on January 29, 2021 and back to “Normal Conditions” by the time field work stopped on February 11, 2021.
- C. Additional comments to support AJD:** The site includes 23 (a)(2) waters and 16 (a)(4) waters that are under the jurisdiction of the USACE.

The site also includes one (b)(1) excluded water and 24 (b)(3) excluded waters that are are not under the jurisdiction of the USACE.

Appendix D

Owner Information

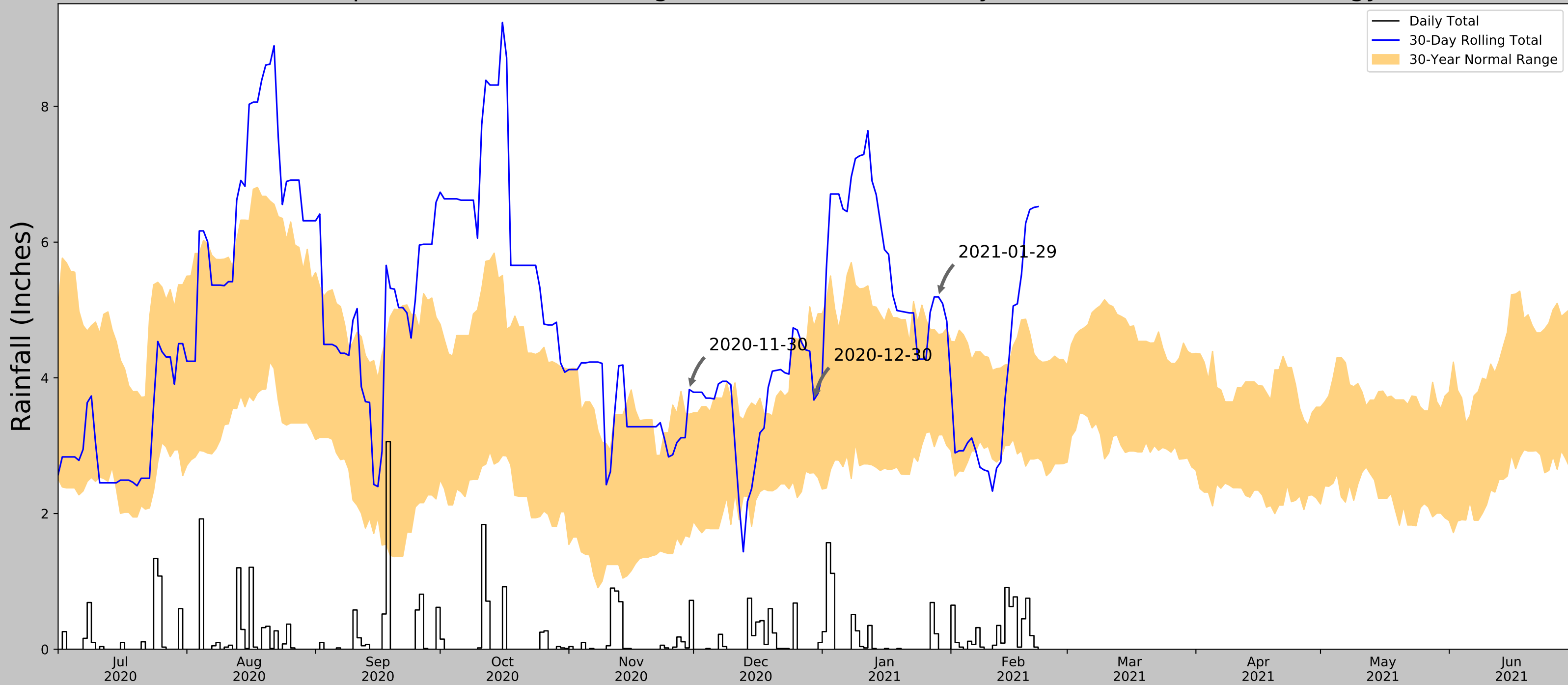
Tax Parcel Owner Information

Tax Parcel No.	Owner(s) Name	Owner Address	Site Contact
166-00-00-028-000	Timberlands of South Carolina, LLC	2637 Broad Street Camden, SC 29020	Bruce Smith, Greenfield Project Manager Luck Companies PO Box 29682 Richmond, VA 23242 804-476-6406 brucesmith@luckcompanies.com
166-00-00-018-000	Blanchard Harvey Trustee	1117 Canterfield Road Chapin, SC 29036	
166-00-00-030-000	Michael R. Kennedy	PO Box 414 Ridgeway, SC 29130	

Appendix E

Antecedent Precipitation Tool

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	34.3185, -81.0165
Observation Date	2021-01-29
Elevation (ft)	509.65
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Wet Season

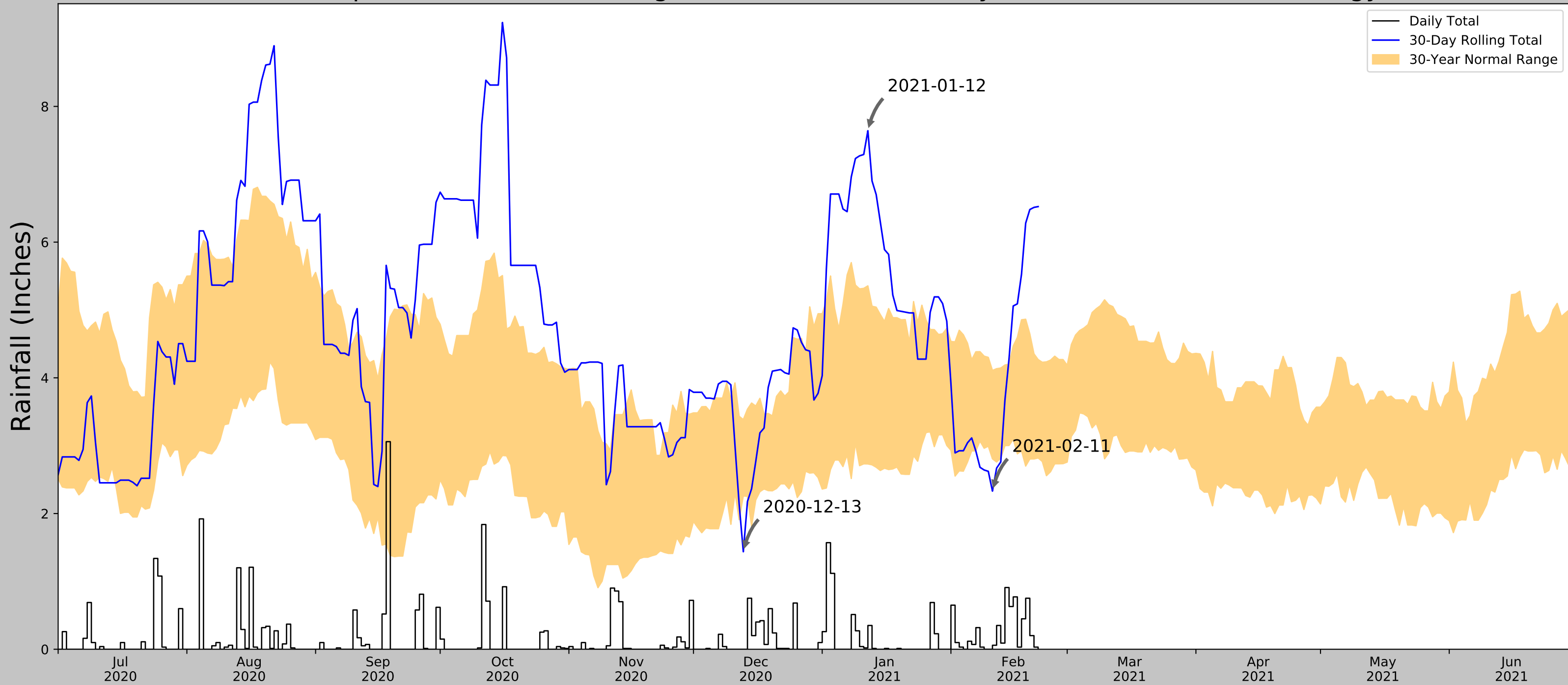
30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-01-29	3.159055	4.638583	5.192914	Wet	3	3	9
2020-12-30	2.602362	4.751181	3.673228	Normal	2	2	4
2020-11-30	1.653543	3.463386	3.826772	Wet	3	1	3
Result							Wetter than Normal - 16

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WINNSBORO	34.3706, -81.0825	529.856	5.209	20.206	2.449	11291	83
WINNSBORO 8.0 S	34.2612, -81.0743	420.932	5.154	88.718	2.776	6	6
WINNSBORO 0.1 NE	34.3775, -81.0889	539.042	5.803	29.392	2.782	1	0
BLYTHEWOOD 1.0 W	34.2171, -80.9929	530.84	7.134	21.19	3.362	4	1
CEDAR CREEK 2E	34.2172, -81.0756	337.927	7.77	171.723	4.831	42	0
SANDHILL RSCH - ELGIN	34.1311, -80.8686	439.961	15.461	69.689	8.035	9	0

Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



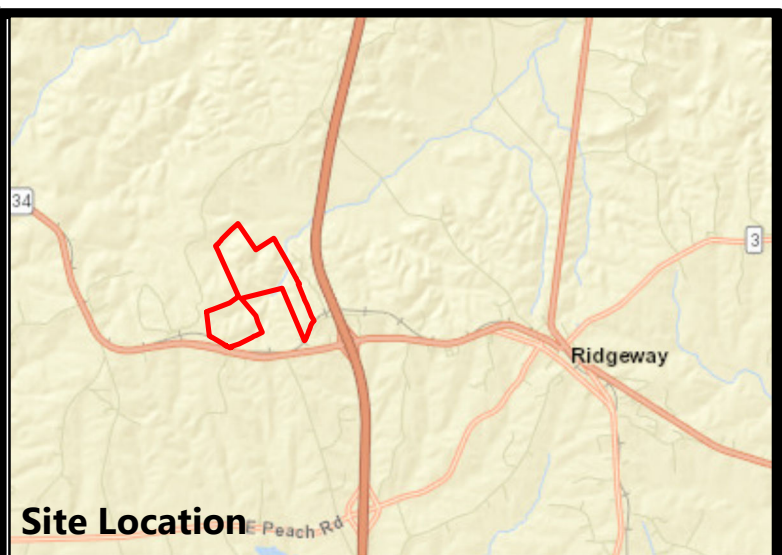
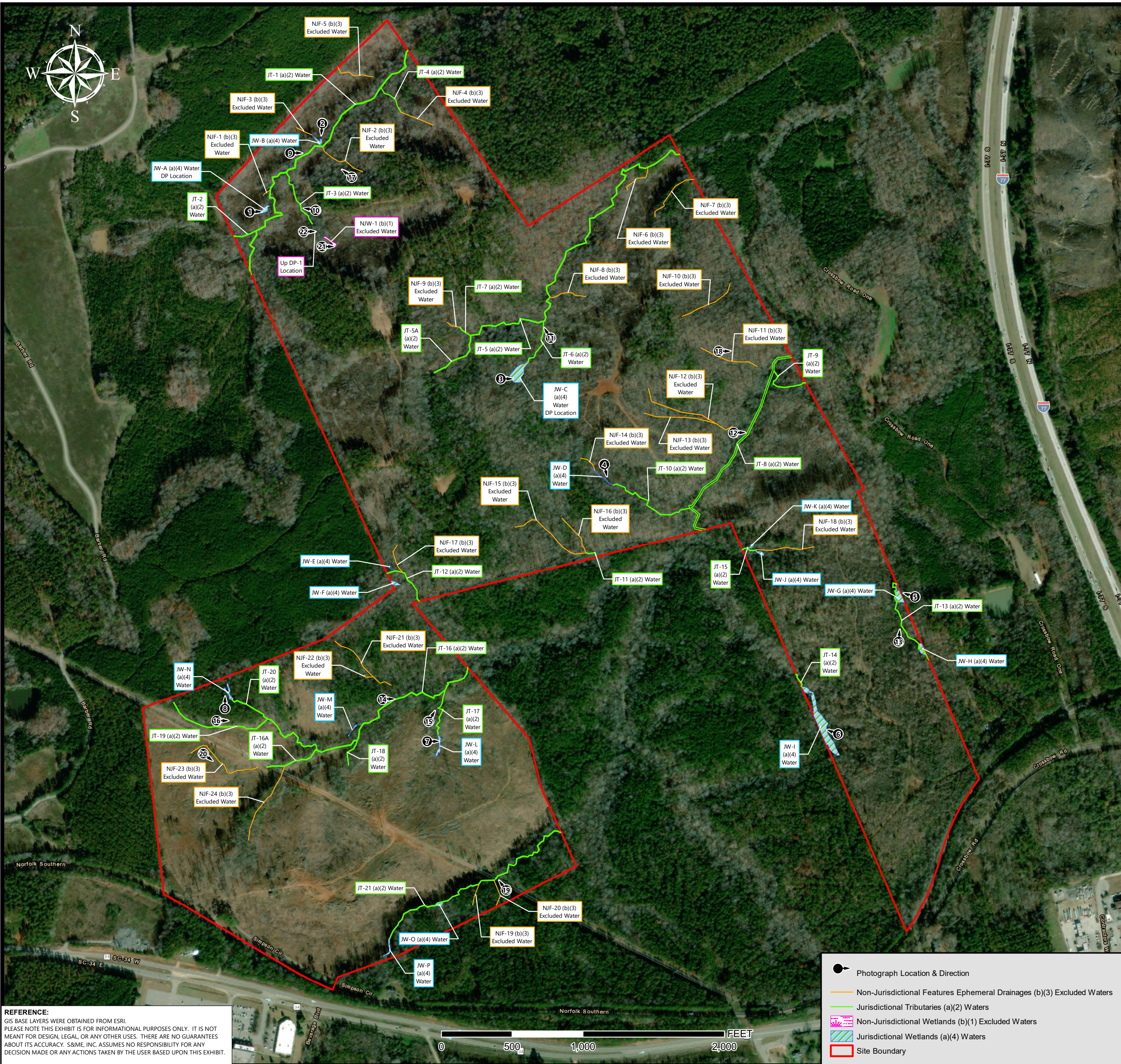
Coordinates	34.3185, -81.0165
Observation Date	2021-02-11
Elevation (ft)	509.65
Drought Index (PDSI)	Mild wetness (2021-01)
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-02-11	2.805906	4.109055	2.330709	Dry	1	3	3
2021-01-12	2.730709	5.355906	7.641733	Wet	3	2	6
2020-12-13	2.260236	3.384646	1.437008	Dry	1	1	1
Result							Normal Conditions - 10

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
WINNSBORO	34.3706, -81.0825	529.856	5.209	20.206	2.449	11291	83
WINNSBORO 8.0 S	34.2612, -81.0743	420.932	5.154	88.718	2.777	6	6
WINNSBORO 0.1 NE	34.3775, -81.0889	539.042	5.803	29.392	2.782	1	0
BLYTHEWOOD 1.0 W	34.2171, -80.9929	530.84	7.134	21.19	3.361	4	1
CEDAR CREEK 2E	34.2172, -81.0756	337.927	7.77	171.723	4.831	42	0
SANDHILL RSCH - ELGIN	34.1311, -80.8686	439.961	15.461	69.689	8.035	9	0

Figure and tables made by the
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Potential Feature Estimates	
Jurisdictional Wetlands (a)(4) Waters	
JW-A:	0.04 ac
JW-B:	0.03 ac
JW-C:	0.22 ac
JW-D:	0.02 ac
JW-E:	0.01 ac
JW-F:	0.03 ac
JW-G:	0.08 ac
JW-H:	0.05 ac
JW-I:	0.50 ac
JW-J:	0.02 ac
JW-K:	0.02 ac
JW-L:	0.05 ac
JW-M:	0.01 ac
JW-N:	0.05 ac
JW-P:	0.03 ac
Total Wetlands:	1.18 ac
Jurisdictional Tributaries (a)(2) Waters	
JT-1:	2,373 LF/0.33 ac
JT-2:	161 LF/0.02 ac
JT-3:	434 LF/0.03 ac
JT-4:	237 LF/0.01 ac
JT-5:	2,629 LF/0.30 ac
JT-5A:	349 LF/0.04 ac
JT-6:	349 LF/0.02 ac
JT-7:	96 LF/0.01 ac
JT-8:	1,596 LF/0.44 ac
JT-9:	357 LF/0.03 ac
JT-10:	682 LF/0.05 ac
JT-11:	92 LF/0.01 ac
JT-12:	363 LF/0.03 ac
JT-13:	728 LF/0.05 ac
JT-14:	109 LF/0.01 ac
JT-15:	114 LF/0.01 ac
JT-16:	1,116 LF/0.13 ac
JT-16A:	706 LF/0.08 ac
JT-17:	380 LF/0.03 ac
JT-18:	205 LF/0.01 ac
JT-19:	1,299 LF/0.12 ac
JT-20:	295 LF/0.03 ac
JT-21:	1,644 LF/0.15 ac
Total Tributaries:	16,314 LF/1.93 ac
Non-Jurisdictional Wetland (b)(1) Excluded Water	
NJW-1:	0.03 ac
Non-Jurisdictional Features Ephemeral Drainages (b)(3) Excluded Waters	
24 total (see AJD Form for Details): 8,024 LF	
Total Site Acreage: 416.76	
Total WOUS: 3.11	
Total Uplands: 413.65	

**AERIAL EXHIBIT
FAIRFIELD I-77 DEVELOPMENT +/- 416.76 Acres
RIDGEWAY, FAIRFIELD CO., SC**

DRAWN BY:	CH	CHECKED BY:	CD
PROJECT NO:	210730A		
SCALE:	1 in = 500 ft	Date:	2/25/2021




EXHIBIT NO.

3

Drawing Path: T:\ENVA\Projects\2021\1210730A_Luck_Some_Fairfield_I-77_Development Due Diligence_Ridgeway_Sc\GIS\mxd\17422_ID_Aerial Exhibit-I-77_Development.mxd plotted by chandley 02-25-2021

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI.
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