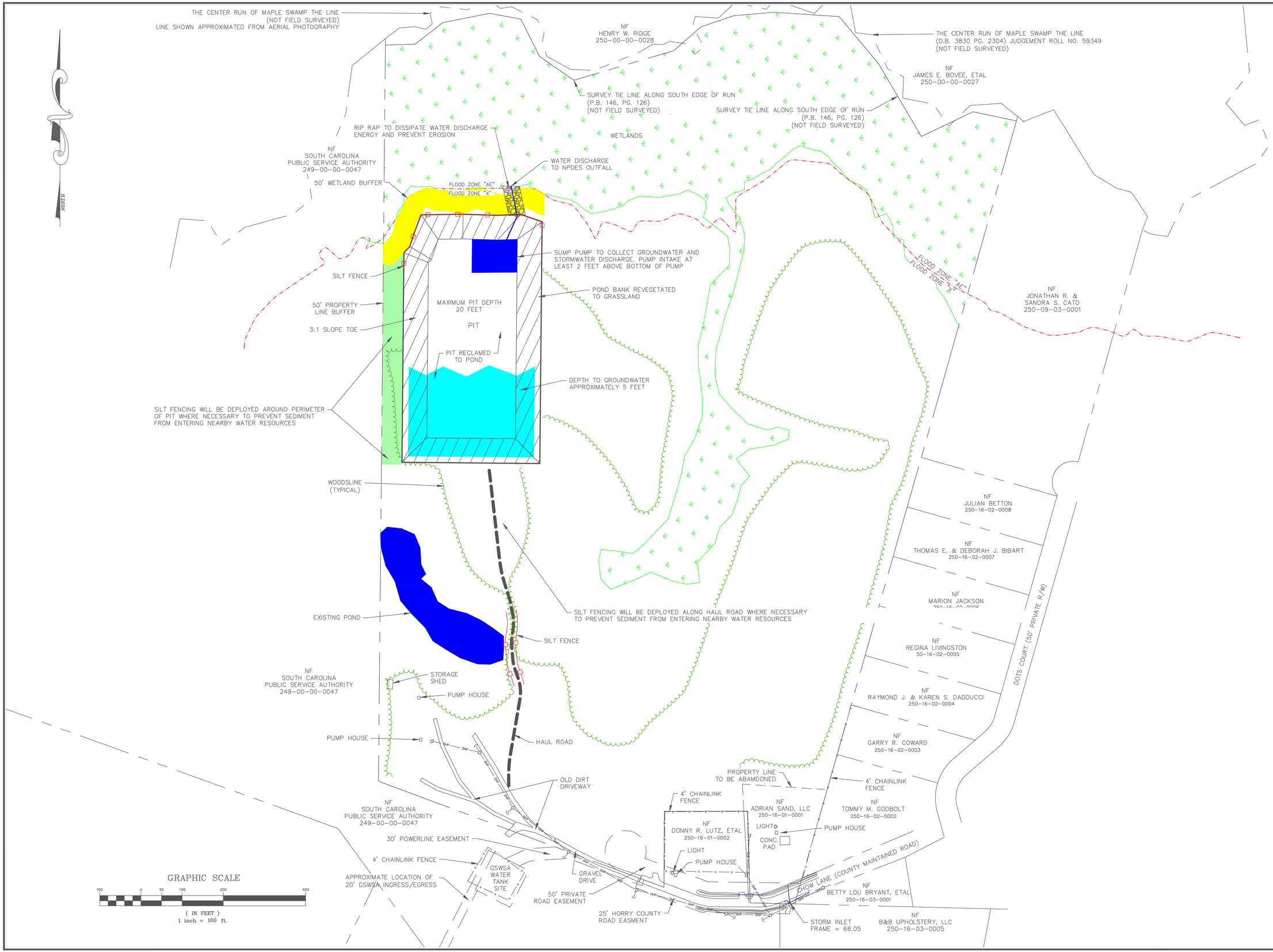


REVISIONS

Description	Date	By

Kennedy Consulting Services, LLC
Craig Kennedy, P.G.
KCS
Office:
403 Seaside court Lexington, SC 29072
Tel. 803.399.1133
Mail:
P.O. Box 364 Irmo, SC 29063
Cell 803.960.2562 • craigkennedy.KCS@gmail.com

Adrian Sand / Clay Pit
Mine and Reclamation Map

Prepared for
Adrian Sands, LLC
Horry County .. South Carolina

Project No.:	KCS 22-177
Date:	03-30-23
Approved by:	RCK
Drawn by:	B.C.
Scale:	1"=100'

Sheet No. 1 of 1

April 6, 2023

Spoilage

Parcels

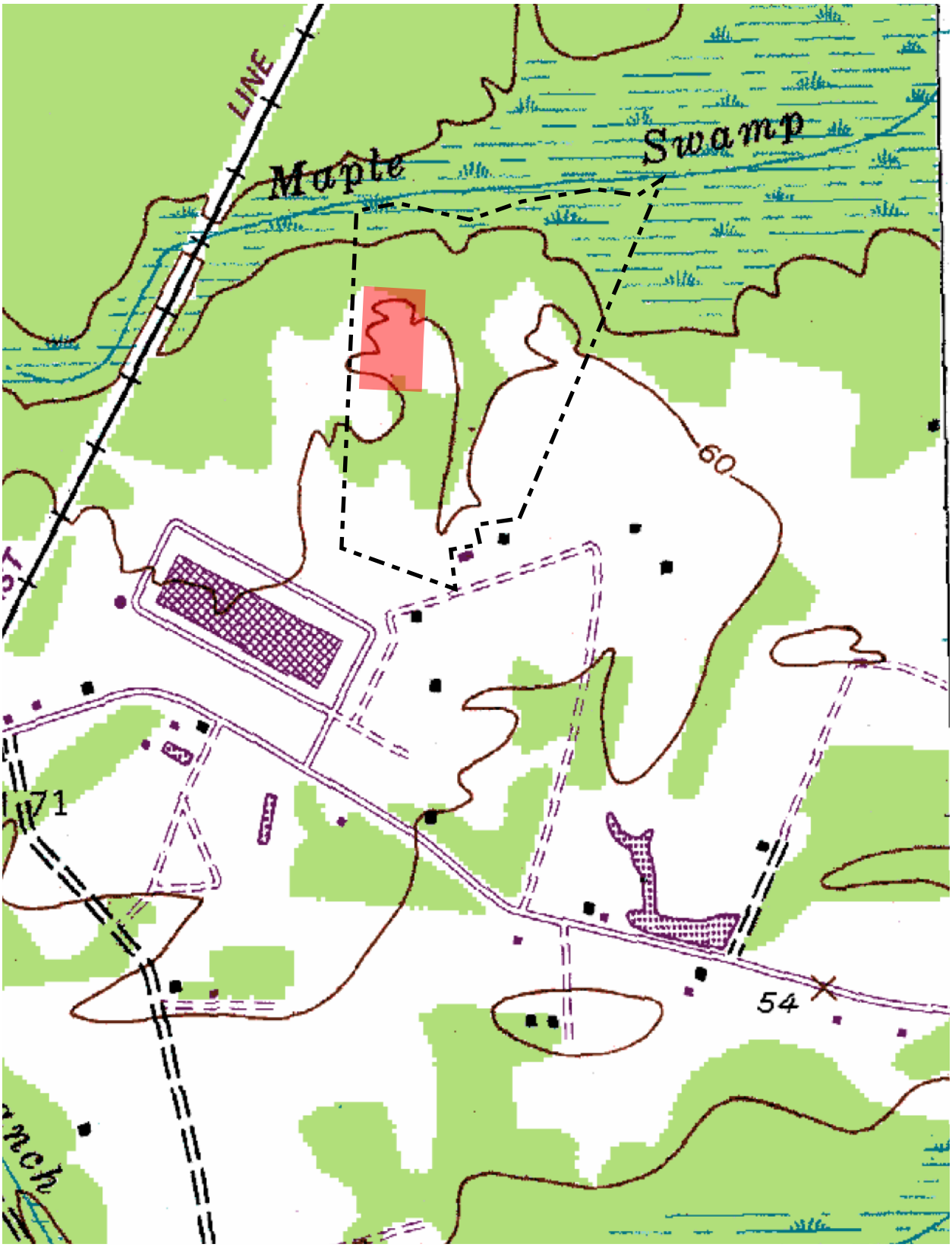
Adrian Sand, LLC
Adrian Sand/Clay Pit
Adjacnt Land Uses and Distances to Nearest Homes

Horry County GIS

1:6,115

0 340 680 1,360 ft

0 100 200 400 m


LINE
Maple
Swamp
60
71
54

THE BRIGMAN COMPANY

March 30, 2022

U.S. Army Corps of Engineers
Conway Regulatory Field Office
1949 Industrial Park Road, Room 140
Conway, SC 29526

Attention: Mr. Rob Huff

Reference: **Chow Lane Tract**
Conway, Horry County, South Carolina

Dear Mr. Huff:

We have completed a routine wetland determination/delineation of the above referenced project. Based on a field reconnaissance conducted on March 23 and 30, 2022, the approximate 57.21-acre subject property was determined to contain approximately 14.7 acres of jurisdictional wetlands and 1, 958 linear feet of Perennial Relatively Permanent Waters (run of Maple Swamp). In addition to the jurisdictional features, there are approximately 1,128 linear feet of non-jurisdictional ditch and a non-jurisdictional pond that totals approximate 0.7 acres. Acting as agent for owner, we hereby request this determination be reviewed by your office and a verification letter be issued after having concurred with our findings.

To facilitate the review and approval process, please find the following attached information:

- Approved Jurisdictional Determination Exhibit dated March 30, 2022
- USACE Jurisdictional Determination (JD) / Delineation form
- Exhibit 1 -Vicinity Map
- Exhibit 2 - USGS Topographic Map Exhibit
- Exhibit 3 – Aerial Photograph with Data Point Locations
- Exhibit 4 - Soil Survey Exhibit
- Exhibit 5 – USF&WS National Wetland Inventory Exhibit
- Exhibit 6 – LiDAR Exhibit
- Representative Site Photographs
- Data Sheets

Please notify us when you schedule your on-site inspection so we can be available to accompany you. Should you have any questions or require additional information to facilitate your review, please advise.

Sincerely,

Charles C. Oates, IV

Partner/Project Manager

cc: Tiffany McDowell, Larry W. Paul Family, LLC

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: Chow Lane Tract Date: March 23, 2022
City/Township/Parish: Conway County: Horry
Latitude/Longitude: 33.952 / -79.009 (NAD83) Acreage: 57.21 Ac+/-
Tax Map Sequence (TMS) #(s): 084-00-02-018
Property Address(es): Chow Lane (please see the attached exhibit for project location).

[✓] 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: Tiffany McDowell
Company Name (*if applicable*): Larry W. Paul Family, LLC
Address: 1207 Southern Oak Way, Mount Pleasant, SC 29466
Phone: (843) 345-6752 Email: tpmcdowell@me.com
Check one: [✓] I currently own this property
[ ] I plan to purchase this property
[ ] Other, please explain

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

Consultant/Agent Name: Charles C. Oates, Jr.
Company Name: The Brigman Company
Address: Post Office Box 1532, Conway, SC 29528 Phone: (843) 248-9388
Email: coates@thebrigmancompany.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:	**Columbia Office:**	**Conway Office:**	**Greenville Office:**
US Army Corps of Engineers	US Army Corps of Engineers	US Army Corps of Engineers	US Army Corps of Engineers
Regulatory Division	Regulatory Office	Regulatory Office	Regulatory Office
69A Hagood Avenue	1835 Assembly Street, Room 865 B-1	1949 Industrial Park Road, Room 140	150 Executive Center Drive, Suite 205
Charleston, SC 29403	Columbia, SC 29201	Conway, SC 29526	Greenville, SC 29615
(ph) 843-329-8044	(ph) 803-253-3444	(ph) 843-365-4239	(ph) 864-609-4326
SAC.RD.Charleston@usace.army.mil	SAC.RD.Columbia@usace.army.mil	SAC.RD.Conway@usace.army.mil	SAC.RD.Greenville@usace.army.mil

*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 Concurrence**[1]

☑ **Approved**[2] **Jurisdictional Determination (AJD) Only**

☐ **Preliminary**[3] **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 regulated[4]

☐ **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.

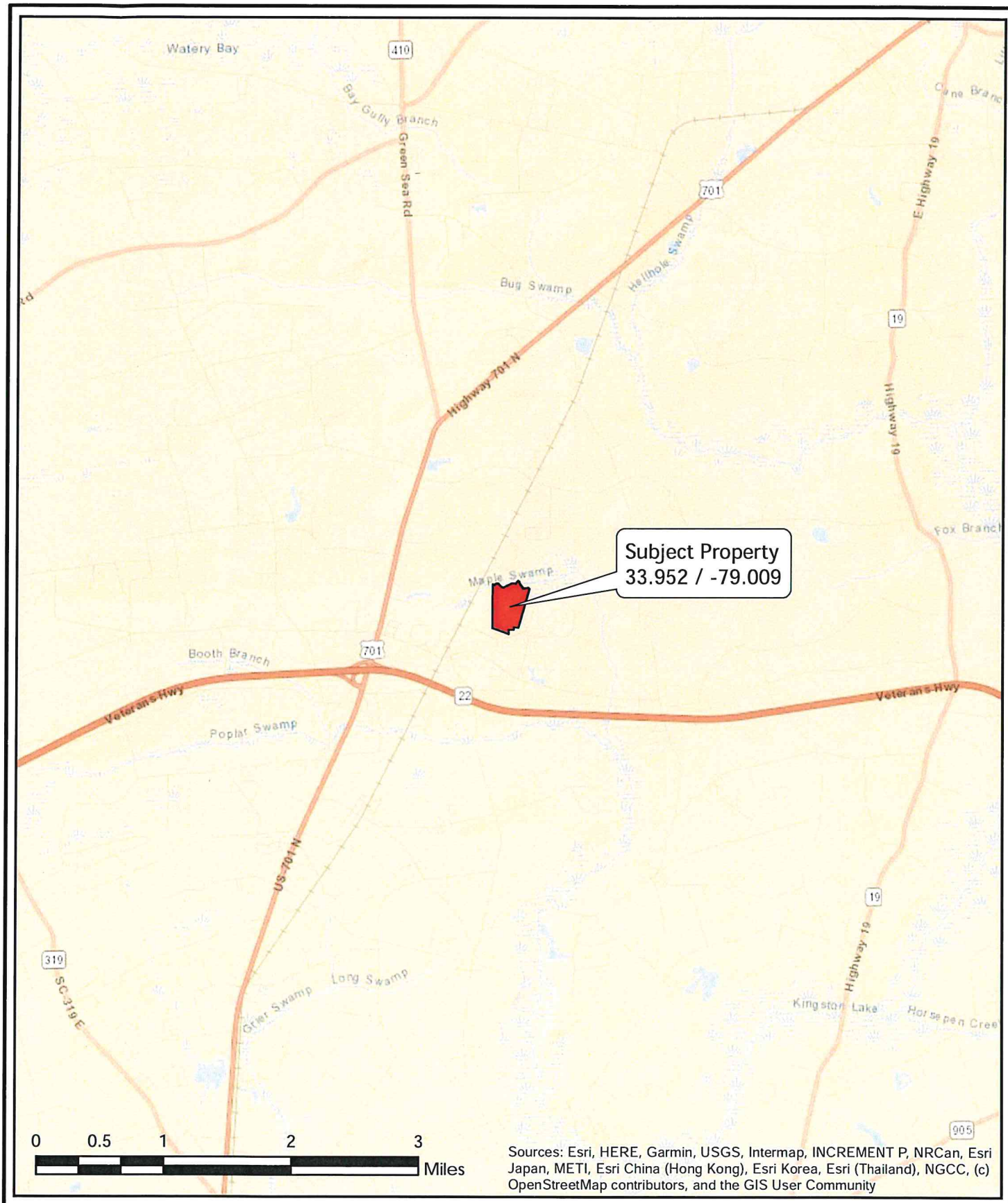
[4] "No Permit Required" (NPR) Letter- A NPR letter may be provided by the Corps to notify the requestor that an activity will not require a permit (authorization) from the Corps; this letter can only be used if the proposed activity is not a regulated activity, regardless of where the activity may occur. 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.

Post Office Box 1532, Conway, SC 29528	Chow Lane / 084-00-02-018
Mailing Address	Property Address / TMS #(s)
coates@thebrigmancompany	(843) 248-9388
Email Address	Daytime Phone Number
Charles C. Oates, Jr. Digitally signed by Charles C. Oates, Jr. Date: 2022.03.23 13:04:36 -04'00'	Charles C. Oates, Jr. / March 23, 2022
*Signature:	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.
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.



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

THE BRIGMAN CO.

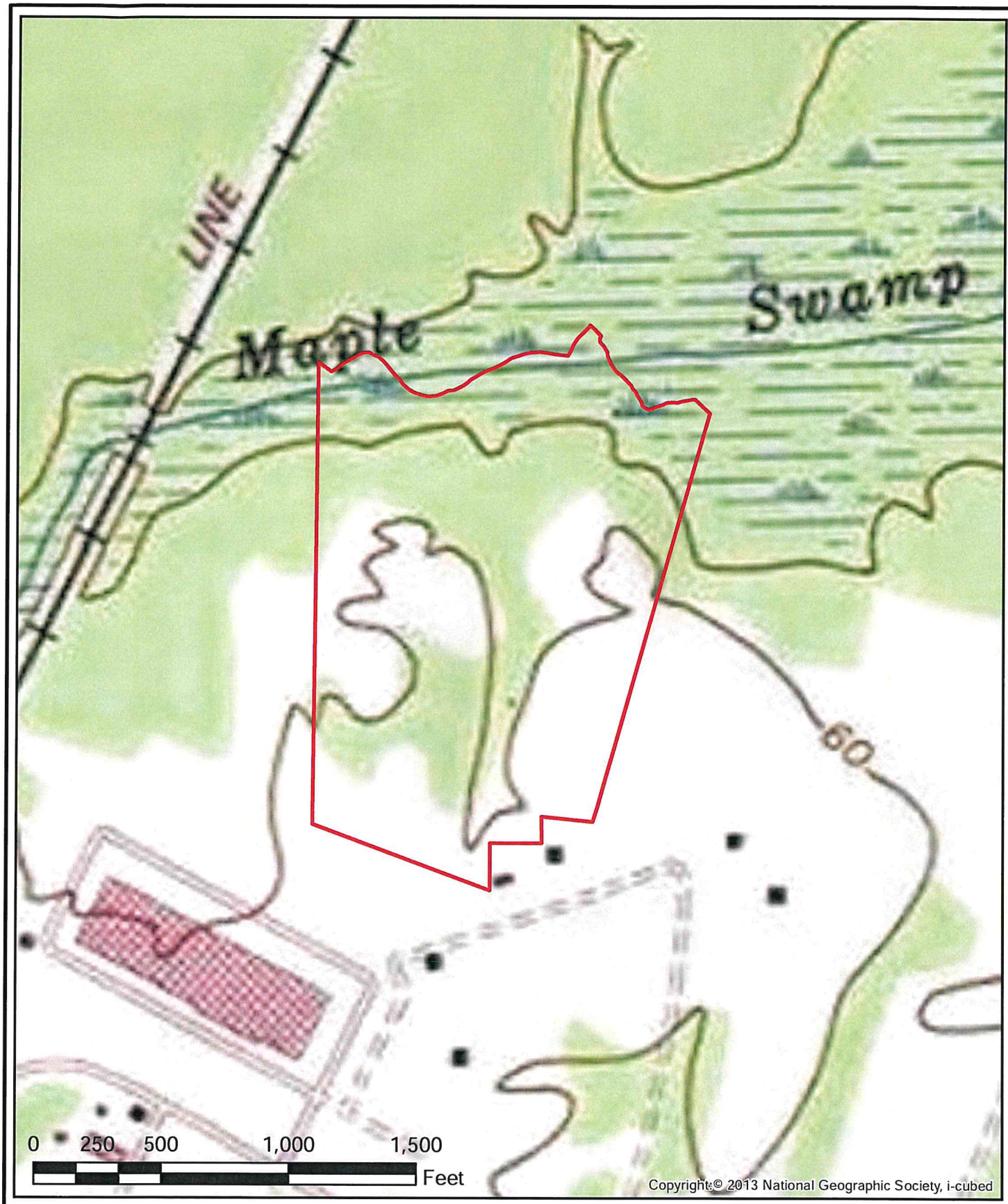
Exhibit 1 - Site Vicinity Map

Chow Lane Tract
TMS# 084-00-02-018
Conway, Horry County, South Carolina
March 2022

N

1 " = 1 miles

607 Main Street - Conway, SC 29526 - Phone (843) 248-9388 - www.TheBrigmanCompany.com



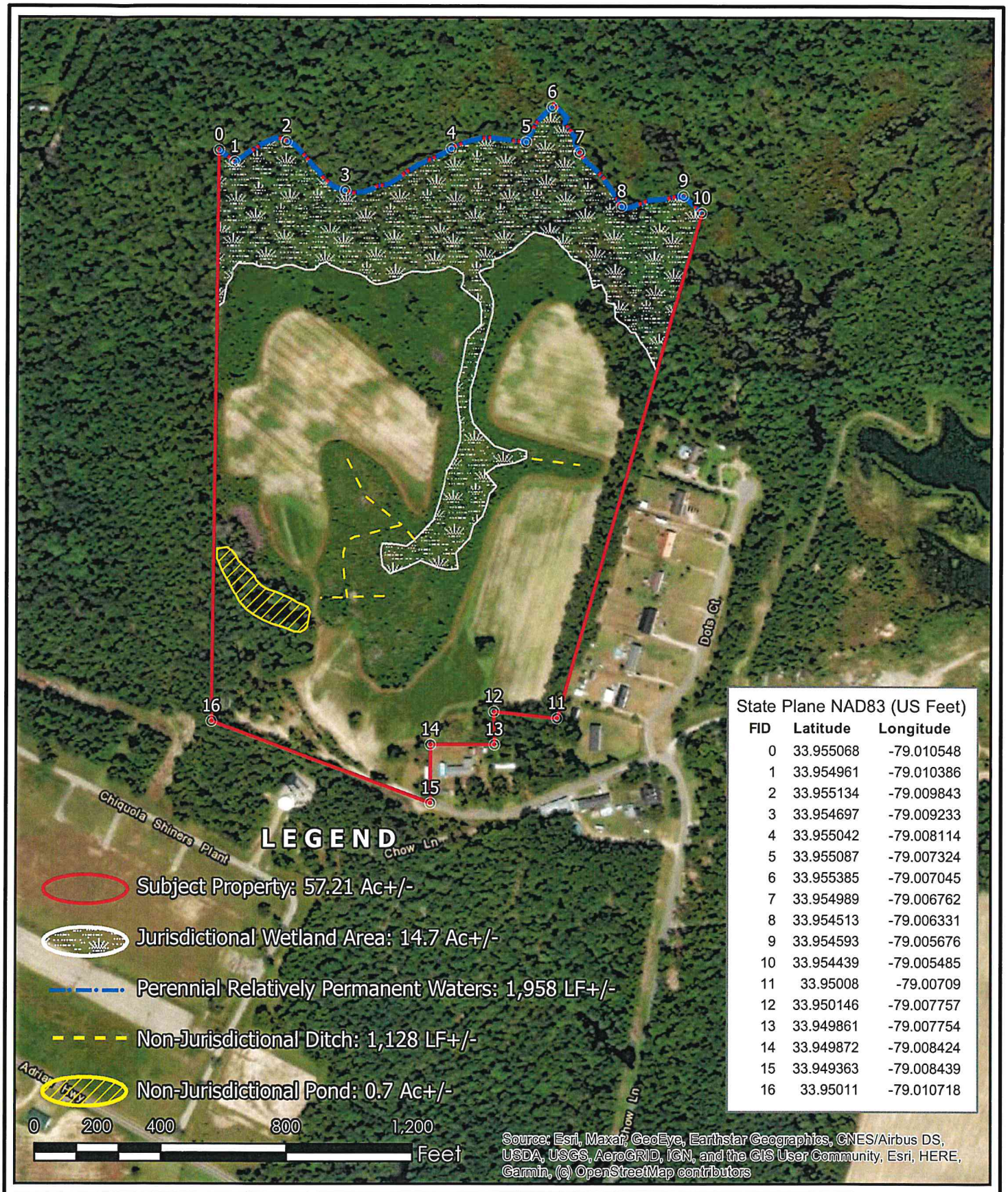
THE BRIGMAN CO.

Exhibit 2 - USGS Topographic Map
Chow Lane Tract
TMS# 084-00-02-018
Conway, Horry County, South Carolina
March 2022

N
1 " = 500 '

607 Main Street - Conway, SC 29526 - Phone (843) 248-9388 - www.TheBrigmanCompany.com

jobs/2022/02178-22072



State Plane NAD83 (US Feet)

FID	Latitude	Longitude
0	33.955068	-79.010548
1	33.954961	-79.010386
2	33.955134	-79.009843
3	33.954697	-79.009233
4	33.955042	-79.008114
5	33.955087	-79.007324
6	33.955385	-79.007045
7	33.954989	-79.006762
8	33.954513	-79.006331
9	33.954593	-79.005676
10	33.954439	-79.005485
11	33.95008	-79.00709
12	33.950146	-79.007757
13	33.949861	-79.007754
14	33.949872	-79.008424
15	33.949363	-79.008439
16	33.95011	-79.010718

THE BRIGMAN CO.

Approved Jurisdictional Determination Exhibit

Chow Lane Tract
TMS# 084-00-02-018
Conway, Horry County, South Carolina
March 30, 2022

N

1 " = 400 '

607 Main Street - Conway, SC 29526 - Phone (843) 248-9388 - www.TheBrigmanCompany.com

jobs/2022/02178-22072

THE BRIGMAN CO.

Exhibit 3 - Aerial Photograph

Chow Lane Tract
TMS# 084-00-02-018
Conway, Horry County, South Carolina
March 2022

N

1 " = 300 '

607 Main Street - Conway, SC 29526 - Phone (843) 248-9388 - www.TheBrigmanCompany.com

THE BRIGMAN CO.

Exhibit 4 - USDA / SCS Soils Map

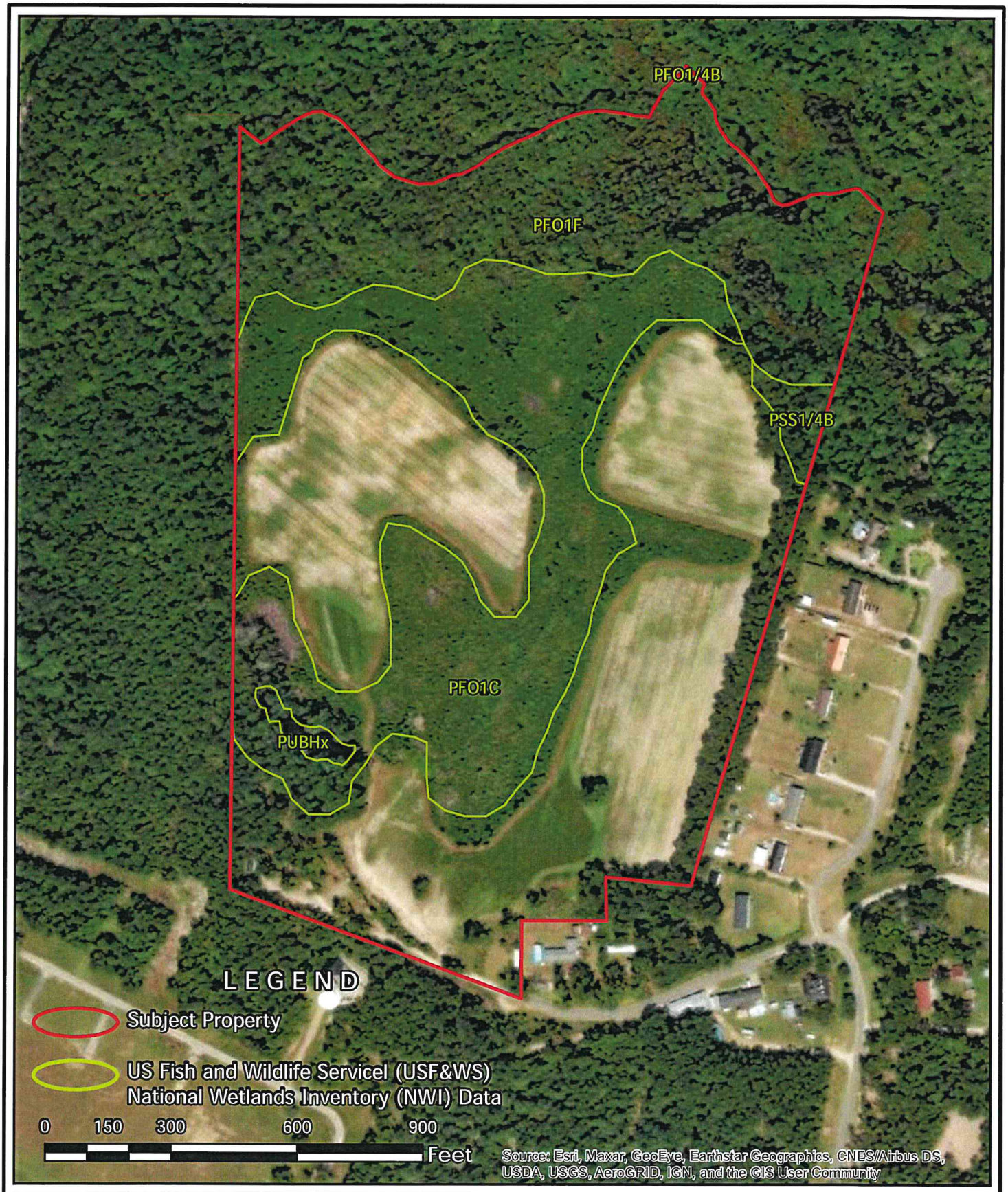
Chow Lane Tract
TMS# 084-00-02-018
Conway, Horry County, South Carolina
March 2022

N

1 " = 300 '

607 Main Street - Conway, SC 29526 - Phone (843) 248-9388 - Fax (843) 248-9596 - wwwTtheBrigmanCompany.com

jobs/2022/02178-22072



THE BRIGMAN CO.

Exhibit 5 - USF&WS NWI Map

Chow Lane Tract
TMS# 084-00-02-018
Conway, Horry County, South Carolina
March 2022

N

1 " = 300 '

607 Main Street - Conway, SC 29526 - Phone (843) 248-9388 - www.TheBrigmanCompany.com

1 Non-hydric soil sample at Data Point 1.

2 Data Point 1 facing south.

3 Data Point 1 facing east.

4 Data Point 1 facing north towards the wetland area (pink flag) at Data Point 2.

TBC THE BRIGMAN CO.

Site Photographs
Tract
County, South Carolina

Project No.: 02178-22072

Taken by: CO

Date Taken: 3/23/22

5 Hydric soil sample at Data Point 2. Soils were saturated to the surface.

6 Data Point 2 facing north.

7 Data Point 2 facing west.

8 Data Point 2 facing south towards the upland area (pink flag) at Data Point 1.

THE BRIGMAN CO.

Site Photographs
Tract
County, South Carolina

Project No.: 02178-22072

Taken by: CO

Date Taken: 3/23/22

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Chow Lane Tract **City/County:** Conway/Horry **Sampling Date:** 30-Mar-22

Applicant/Owner: Larry W. Paul Family, LLC **State:** SC **Sampling Point:** DP1

Investigator(s): Charles Oates (The Brigman Company) **Section, Township, Range:** S T R

Landform (hillslope, terrace, etc.): Upland **Local relief (concave, convex, none):** undulating **Slope:** 2.0 % / 1.1°

Subregion (LRR or MLRA): LRR T **Lat.:** 33.9542 **Long.:** -789.0072 **Datum:** NAD83

Soil Map Unit Name: USDA / SCS has the soils mapped as Kenansville **NWI classification:** PFO1C mapped

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 ○ No ◉	**Is the Sampled Area within a Wetland?** Yes ○ No ◉
Hydric Soil Present? Yes ○ No ◉	
Wetland Hydrology Present? Yes ○ No ◉	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) (LRR U)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of 2 required)

- ☐ Surface Soil Cracks (B6)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)
- ☐ Sphagnum moss (D8) (LRR T, U)

Field Observations:

Surface Water Present? Yes ○ No ◉ Depth (inches): _____

Water Table Present? Yes ○ No ◉ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches): _____

Wetland Hydrology Present? Yes ○ No ◉

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Primary and/or secondary indicators of hydrology were not present at this location.

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

Sampling Point: DP1

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
1.	0	☐	0.0%	
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
6.	0	☐	0.0%	
7.	0	☐	0.0%	
8.	0	☐	0.0%	
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	

Sapling or Sapling/Shrub Stratum (Plot size:)				
1.	0	☐	0.0%	
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
6.	0	☐	0.0%	
7.	0	☐	0.0%	
8.	0	☐	0.0%	
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	

Shrub Stratum (Plot size: 30')				
1. Quercus alba	30	☑	42.9%	FACU
2. Carya tomentosa	20	☑	28.6%	UPL
3. Prunus serotina	20	☑	28.6%	FACU
4.	0	☐	0.0%	
5.	0	☐	0.0%	
6.	0	☐	0.0%	
50% of Total Cover: 35	20% of Total Cover: 14	70	= Total Cover	

Herb Stratum (Plot size: 30')				
1. Rubus argutus	70	☑	77.8%	FAC
2. Pteridium aquilinum	20	☑	22.2%	FACU
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
6.	0	☐	0.0%	
7.	0	☐	0.0%	
8.	0	☐	0.0%	
9.	0	☐	0.0%	
10.	0	☐	0.0%	
11.	0	☐	0.0%	
12.	0	☐	0.0%	
50% of Total Cover: 45	20% of Total Cover: 18	90	= Total Cover	

Woody Vine Stratum (Plot size: 30')				
1. Vitis rotundifolia	30	☑	60.0%	FAC
2. Gelsemium sempervirens	20	☑	40.0%	FAC
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
50% of Total Cover: 25	20% of Total Cover: 10	50	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 42.9% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	120	x 3 =	360
FACU species	70	x 4 =	280
UPL species	20	x 5 =	100
Column Totals:	210 (A)		740 (B)

Prevalence Index = B/A = 3.524

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☐ **2 - Dominance Test is > 50%**
- ☐ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Definition of 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 - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

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

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ○ No ◉

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

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

SOIL

Sampling Point: DP1

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type [1]	Redox Features Loc [2]	Texture	Remarks
0-6	10YR 5/2	100					Sand	
6-25	10YR 7/3	100					Sand	

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

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Organic Bodies (A6) (LRR P, T, U)
- ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)
- ☐ Muck Presence (A8) (LRR U)
- ☐ 1 cm Muck (A9) (LRR P, T)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16) (MLRA 150A)
- ☐ Sandy Muck Mineral (S1) (LRR O, S)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (LRR P, S, T, U)
- ☐ Polyvalue Below Surface (S8) (LRR S, T, U)
- ☐ Thin Dark Surface (S9) (LRR S, T, U)
- ☐ Loamy Mucky Mineral (F1) (LRR O)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Marl (F10) (LRR U)
- ☐ Depleted Ochric (F11) (MLRA 151)
- ☐ Iron-Manganese Masses (F12) (LRR O, P, T)
- ☐ Umbric Surface (F13) (LRR P, T, U)
- ☐ Delta Ochric (F17) (MLRA 151)
- ☐ Reduced Vertic (F18) (MLRA 150A, 150B)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
- ☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils [3]:

- ☐ 1 cm Muck (A9) (LRR O)
- ☐ 2 cm Muck (A10) (LRR S)
- ☐ Reduced Vertic (F18) (outside MLRA 150A,B)
- ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)
- ☐ Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[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 soil criteria was not met at this location.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Chow Lane Tract **City/County:** Conway/Horry **Sampling Date:** 30-Mar-22

Applicant/Owner: Larry W. Paul Family, LLC **State:** SC **Sampling Point:** DP2

Investigator(s): Charles Oates (The Brigman Company) **Section, Township, Range:** S T R

Landform (hillslope, terrace, etc.): Flat **Local relief (concave, convex, none):** none **Slope:** 0.0 % / 0.0°

Subregion (LRR or MLRA): LRR T **Lat.:** 33.9544 **Long.:** -789.0071 **Datum:** NAD83

Soil Map Unit Name: USDA / SCS has the soils mapped as Yonges **NWI classification:** PFO1F mapped

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 ◉ No ○ Hydric Soil Present? Yes ◉ No ○ Wetland Hydrology Present? Yes ◉ No ○	**Is the Sampled Area within a Wetland?** Yes ◉ No ○

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) (LRR U)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of 2 required)

- ☐ Surface Soil Cracks (B6)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☑ FAC-Neutral Test (D5)
- ☑ Sphagnum moss (D8) (LRR T, U)

Field Observations:

Surface Water Present?	Yes ◉ No ○	Depth (inches):	24
Water Table Present?	Yes ◉ No ○	Depth (inches):	0
Saturation Present? (includes capillary fringe)	Yes ◉ No ○	Depth (inches):	0

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Hydrological indicators were present at this location. Soils were saturated to the surface.

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

Sampling Point: DP2

	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
Tree Stratum (Plot size: 30')				
1. Nyssa aquatica	30	☑	60.0%	OBL
2. Acer rubrum	20	☑	40.0%	FAC
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
6.	0	☐	0.0%	
7.	0	☐	0.0%	
8.	0	☐	0.0%	
50% of Total Cover: 25 20% of Total Cover: 10	50	= Total Cover		
Sapling or Sapling/Shrub Stratum (Plot size: 30')				
1. Acer rubrum	20	☑	100.0%	FAC
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
6.	0	☐	0.0%	
7.	0	☐	0.0%	
8.	0	☐	0.0%	
50% of Total Cover: 10 20% of Total Cover: 4	20	= Total Cover		
Shrub Stratum (Plot size: 30')				
1. Morella cerifera	30	☑	100.0%	FAC
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
6.	0	☐	0.0%	
50% of Total Cover: 15 20% of Total Cover: 6	30	= Total Cover		
Herb Stratum (Plot size: 30')				
1. Typha latifolia	40	☑	50.0%	OBL
2. Osmunda cinnamomea	20	☑	25.0%	FACW
3. Woodwardia areolata	20	☑	25.0%	OBL
4.	0	☐	0.0%	
5.	0	☐	0.0%	
6.	0	☐	0.0%	
7.	0	☐	0.0%	
8.	0	☐	0.0%	
9.	0	☐	0.0%	
10.	0	☐	0.0%	
11.	0	☐	0.0%	
12.	0	☐	0.0%	
50% of Total Cover: 40 20% of Total Cover: 16	80	= Total Cover		
Woody Vine Stratum (Plot size: 30')				
1. Smilax laurifolia	30	☑	100.0%	FACW
2.	0	☐	0.0%	
3.	0	☐	0.0%	
4.	0	☐	0.0%	
5.	0	☐	0.0%	
50% of Total Cover: 15 20% of Total Cover: 6	30	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	90	x 1 =	90
FACW species	50	x 2 =	100
FAC species	70	x 3 =	210
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	210 (A)		400 (B)

Prevalence Index = B/A = 1.905

Hydrophytic Vegetation Indicators:

- ☐ **1 - Rapid Test for Hydrophytic Vegetation**
- ☑ **2 - Dominance Test is > 50%**
- ☑ **3 - Prevalence Index is ≤3.0** [1]
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

[1] **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.**

Definition of 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 - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

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

Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine - All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ◉ No ○

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

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

SOIL

Sampling Point: DP2

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

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)		%	Type [1]	Loc [2]	Texture	Remarks
0-10	10YR	2/1	100						Sand	saturated
10-25	10YR	5/1	90	10YR	6/4	10	C	M	Sand	saturated

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

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Organic Bodies (A6) (LRR P, T, U)
- ☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)
- ☐ Muck Presence (A8) (LRR U)
- ☐ 1 cm Muck (A9) (LRR P, T)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16) (MLRA 150A)
- ☐ Sandy Muck Mineral (S1) (LRR O, S)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☑ Dark Surface (S7) (LRR P, S, T, U)
- ☐ Polyvalue Below Surface (S8) (LRR S, T, U)
- ☐ Thin Dark Surface (S9) (LRR S, T, U)
- ☐ Loamy Mucky Mineral (F1) (LRR O)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Marl (F10) (LRR U)
- ☐ Depleted Ochric (F11) (MLRA 151)
- ☐ Iron-Manganese Masses (F12) (LRR O, P, T)
- ☐ Umbric Surface (F13) (LRR P, T, U)
- ☐ Delta Ochric (F17) (MLRA 151)
- ☐ Reduced Vertic (F18) (MLRA 150A, 150B)
- ☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
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Indicators for Problematic Hydric Soils [3]:

- ☐ 1 cm Muck (A9) (LRR O)
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- ☐ Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[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 soil criteria was met at this location.