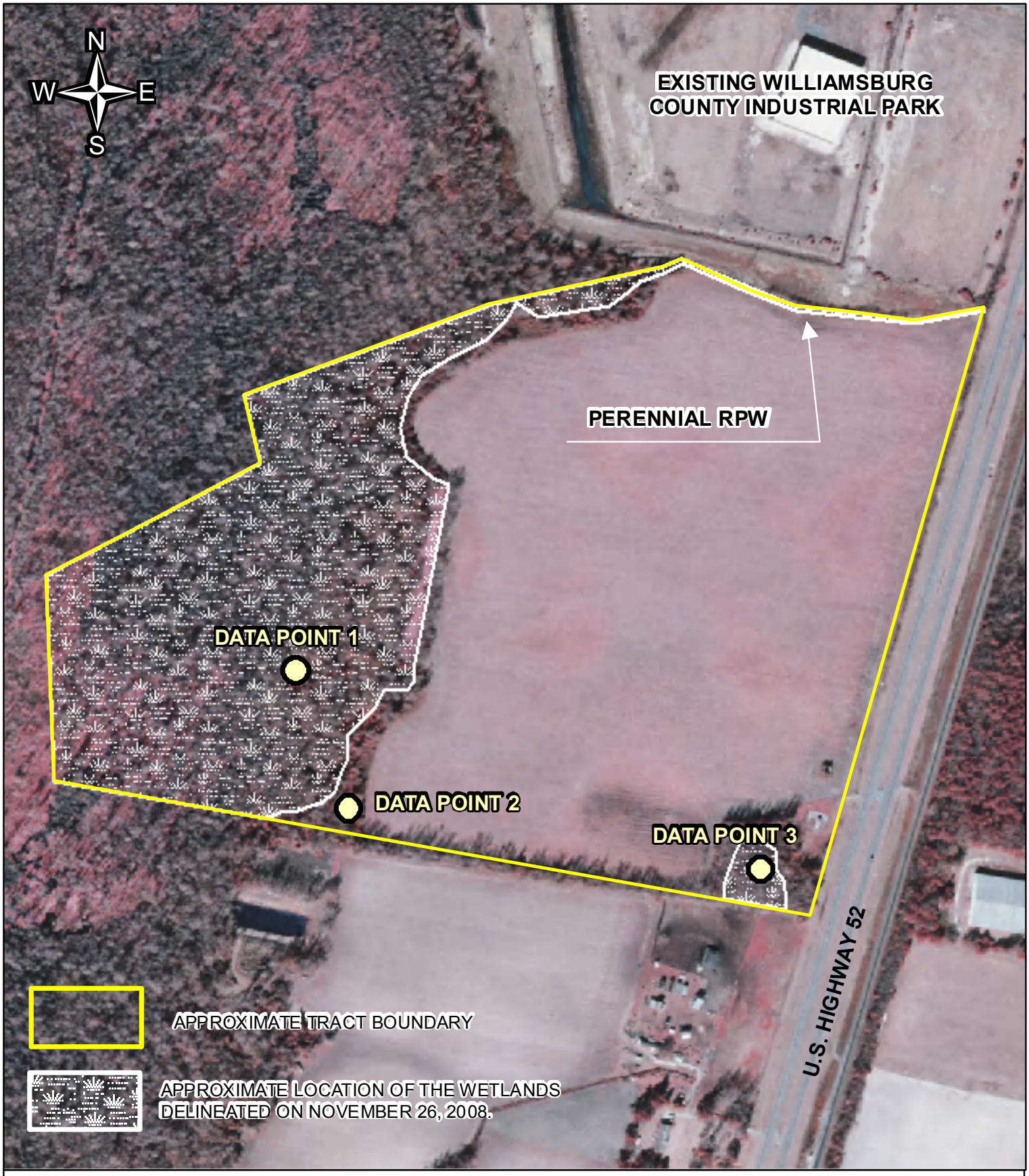
Site Certification for the
Williamsburg Cooperative Commerce Centre South
In Williamsburg County, South Carolina

Attachment 21

Wetlands Delineation for
Epps No. 1 Industrial Site



SCALE:	1"= 400'
BACKGROUND SOURCE:	SCDNR GIS DEPT.
SOURCE DATE:	2006
DATE:	JUNE 2009

S&ME

WWW.SMEINC.COM

SITE AERIAL PHOTOGRAPH

EPPS NO. 1 INDUSTRIAL SITE

WILLIAMSBURG COUNTY, SC

S & ME PROJECT # 1634-08-370

FIGURE #

3

Regulatory Division – Charleston District – Corps of Engineers 69-A Hagood Avenue, Charleston, SC 29403

REQUEST FOR WETLAND DETERMINATION

Date: 12/3/08 **County:** Williamsburg **Total Acreage ofTract:** +/-90 Ac.
Project Name (if applicable): Epps No. 1 Industrial Site

Property Owner (name, address, phone):	**Agent/Developer/Engineer** (name, address, phone):
Williamsburg County c/o Alliance Consulting Engineers Post Office Box 8147 Columbia, SC 29202-8147	Charles Oates S&ME,Inc. 1330 Highway 501 Business Conway, SC 29526 (843) 347-7800

Status of Project (check one):
☐ On-going site work for development purposes
☒ Development in planning stages
☐ No specific development plans at this time

Project Type – Indicate the proposed use of the land in question of, if no specific work is planned at present, indicate the current zoning or land use at the site. (check one)

☐ Residential	☐ Commercial	☐ Mixed Use (Residential + Commercial)
☒ Industrial	☐ Agriculture	☐ Public Works
☐ Silivculture	☐ Aquaculture	☐ Other:

Information Required to Accompany Request – Check the items submitted – forward as much information as is available. At a minimum, the first two items must be forwarded:

☒ Accurate Location Map (from County Map, USGS Quad Sheet, etc.)
☐ Survey Plat of Tax Map of Property in Question
☒ Soil Survey Sheet (from USDA-NRCS) or Aerial Photo (from County Assessor's Office or other source). Property boundaries should be shown on the soil survey/photo.
☒ Topographic Survey
☐ Conceptual Site Plan for the Overall Development

Endangered Species Evaluation:
Has the site been evaluated for the presence of federally protected (endangered, threatened, or proposed) species and/or any proposed or designated critical habitat for such species? ☐ YES ☒ NO

If YES, has this evaluation been coordinated with the US Fish and Wildlife Service (FWS)? ☐ YES ☒ NO

If coordination has occurred, please provide the FWS Log number and enclose a copy of the report:
FWS Log Number: _____
Copy of Report enclosed: ☐ YES ☐ NO

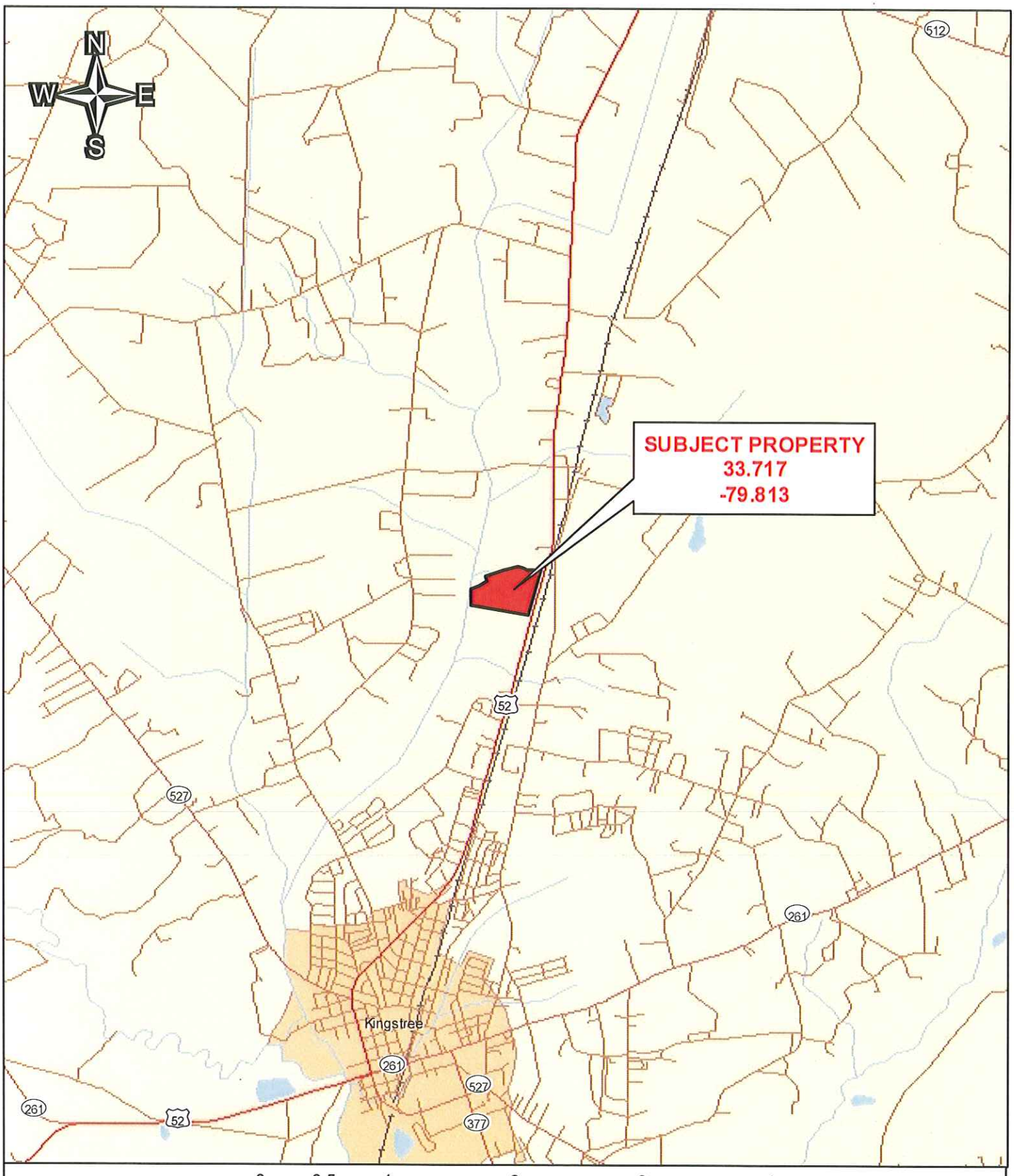
If the evaluation has not been coordinated with the US FWS, enclose a copy of your report findings.

IMPORTANT NOTE: Legible printed name and signature required. The person signing this form must be the present property owner or have the specific authority of the property owner to authorized Corps of Engineers employees or their agents to enter onto the property for on-site investigations if such is deemed necessary. Do not sign this form unless you are the owner, or have the specific authority of the property owner.

PRINTED NAME of person signing this form, below: **Charles Oates**

Signature of property Owner or Authorized Agent: _____

Copies of this form may be obtained from the Charleston District web site at:
http://www.sac.usace.army.mil/permits/form_JDRequest.pdf



SCALE:	1"= 1 MILE
BACKGROUND SOURCE:	ESRI Street Map 9.3
SOURCE DATE:	2007
DATE:	NOVEMBER 2008

S&ME

WWW.SMEINC.COM

SITE VICINITY MAP

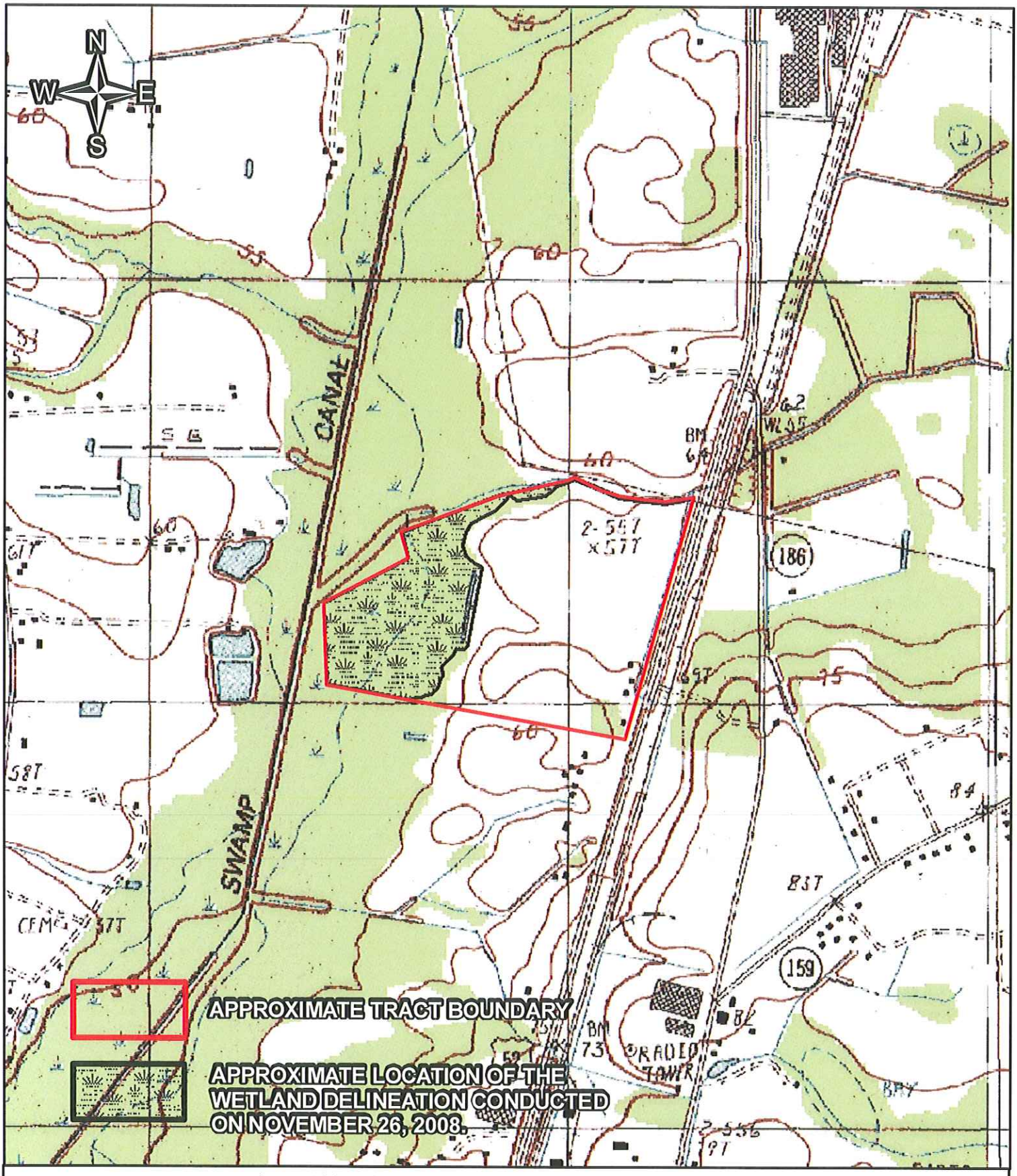
EPPS NO. 1 INDUSTRIAL SITE

WILLIAMSBURG COUNTY, SC

S & ME PROJECT # 1634-08-370

FIGURE #

1



SCALE:	1"= 1,000'
BACKGROUND SOURCE:	TERRASERVER DATA
SOURCE DATE:	1990
DATE:	NOVEMBER 2008

S&ME

WWW.SMEINC.COM

SITE TOPOGRAPHIC MAP

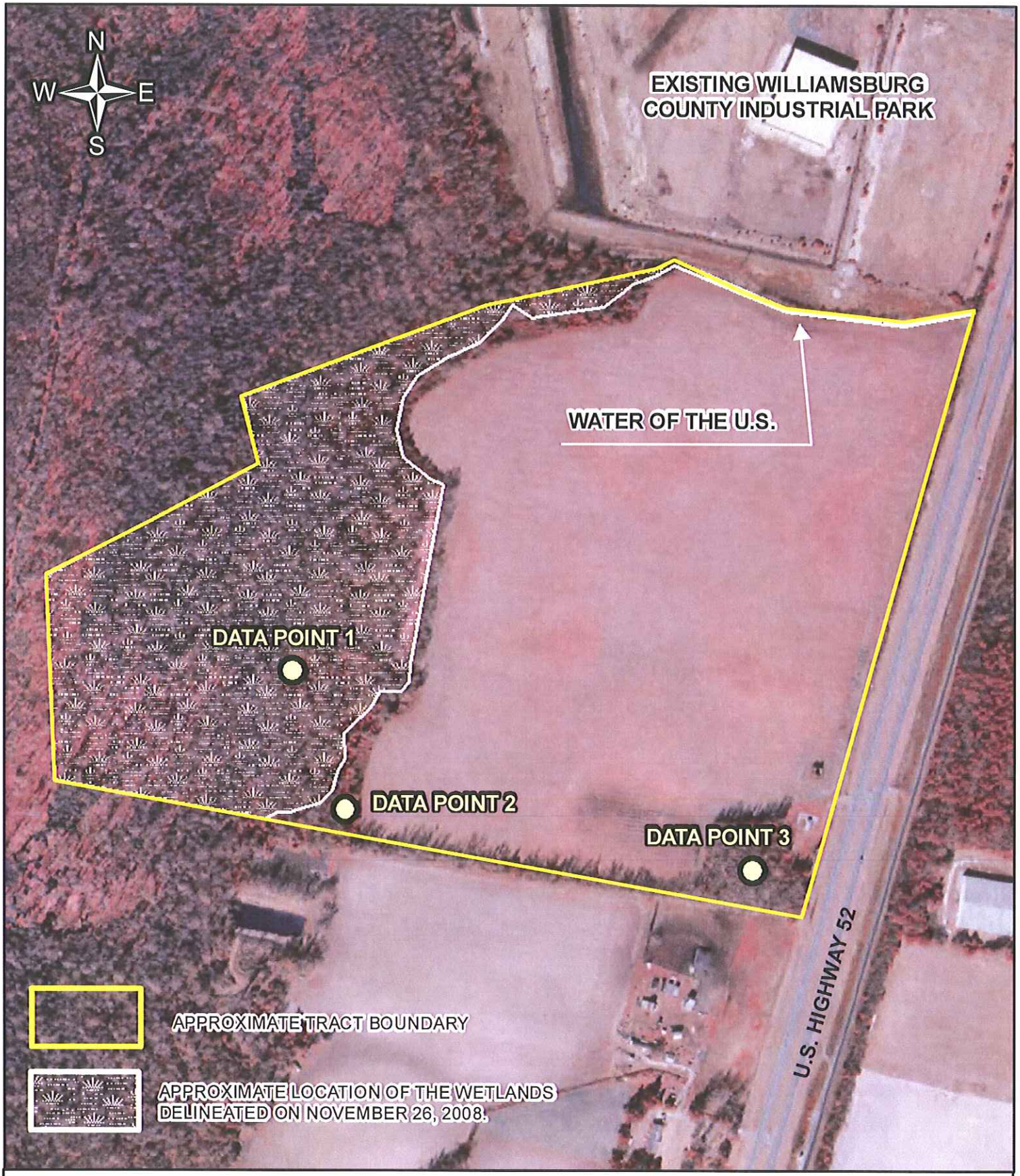
EPPS NO. 1 INDUSTRIAL SITE

WILLIAMSBURG COUNTY, SC

S & ME PROJECT # 1634-08-370

FIGURE #

2



0 200 400 800 1,200 1,600 Feet

SCALE:	1"= 400'
BACKGROUND SOURCE:	SCDNR GIS DEPT.
SOURCE DATE:	2006
DATE:	NOVEMBER 2008

S&ME

WWW.SMEINC.COM

SITE AERIAL PHOTOGRAPH

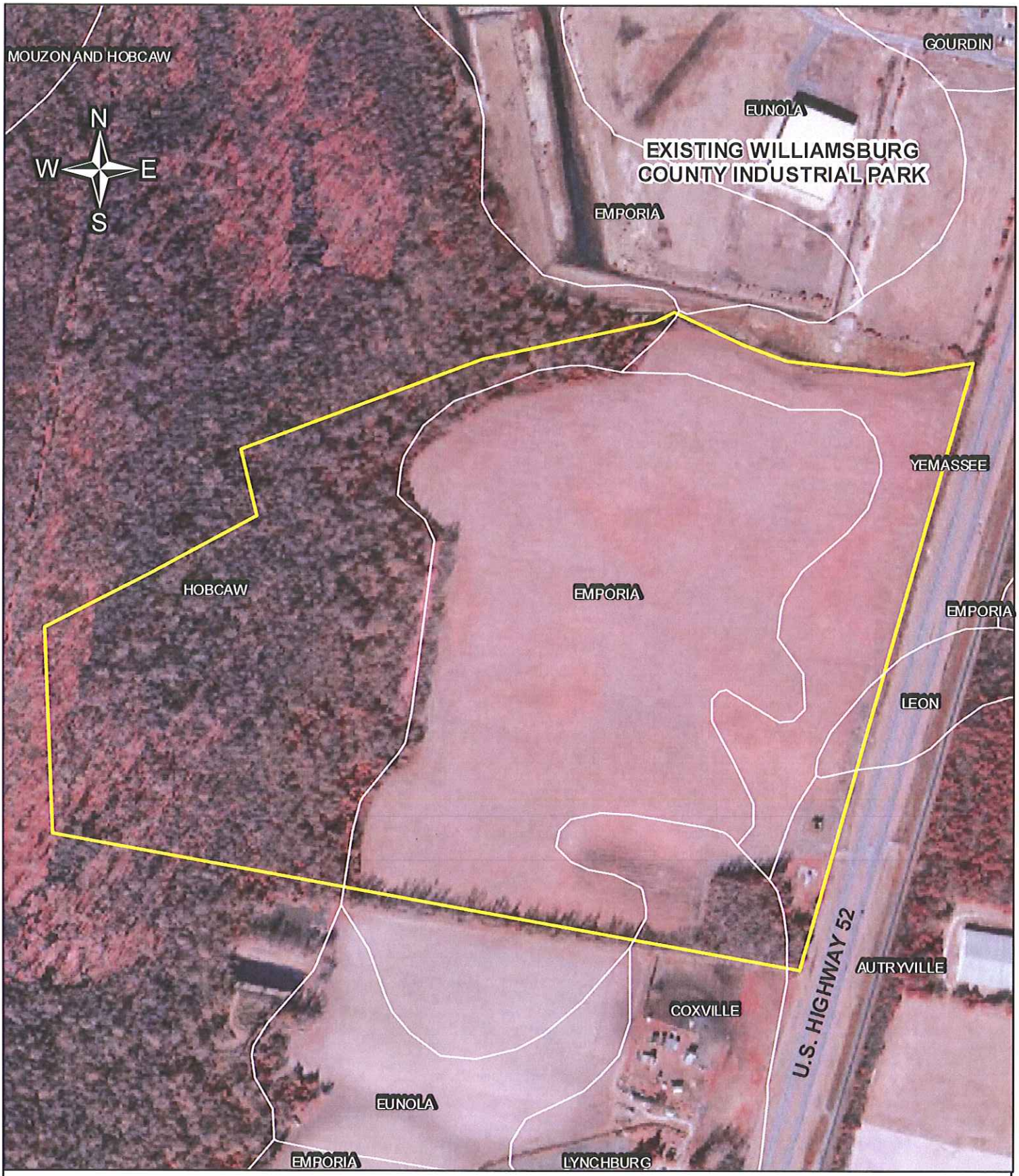
EPPS NO. 1 INDUSTRIAL SITE

WILLIAMSBURG COUNTY, SC

S & ME PROJECT # 1634-08-370

FIGURE #

3



SCALE:	1"= 400'
BACKGROUND SOURCE:	SCDNR GIS DEPT.
SOURCE DATE:	1984 SOILS DATA
DATE:	NOVEMBER 2008

S&ME

WWW.SMEINC.COM

SITE SOIL SURVEY

EPPS NO. 1 INDUSTRIAL SITE

WILLIAMSBURG COUNTY, SC

S & ME PROJECT # 1634-08-370

FIGURE #

4

1 Upland soils located at Data Point 2.

2 Wetland area at Data Point 1.

3 Saturated hydric soils at Data Point 1.

4 Vegetation at Data Point 3.

S&ME

Site Photographs
Epps No.1 Industrial Site

S&ME Project No.: 1634-08-370

Taken by: CO | Checked by: CW

6 Drained Coxville soils at Data Point 3.

S&ME

Site Photographs
Epps No. 1 Industrial Site

S&ME Project No.: 1634-08-370

Taken by: CO | Checked by: CW

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 USACE Wetlands Delineation Manual)

Project Site:	Epps No. 1 Industrial Site	Date:	11-26-08
Applicant/Owner:	Williamsburg County	County:	Wiliamsburg
Investigator:	Charles Oates (S&ME,Inc.)	State:	SC
Do normal circumstances exist on the site?	Yes☒ No☐	Community ID:	Wetland
Is the site significantly disturbed (Atypical Situation)?	Yes☐ No☒	Transect ID:	
Is the area a potential problem area? (if needed, explain on reverse)	Yes☐ No☒	Plot ID:	1

VEGETATION (Note those species observed to have morphological adaptations to wetlands with an *).

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1.	*Taxodium distichum	Tree	OBL	9.			
2.	*Nyssa sylvatica	Tree	FAC	10.			
3.	*Quercus michauxii	Tree	FACW	11.			
4.	*Acer rubrum	Tree	FAC	12.			
5.	Ilex glabra	Shrub	FACW	13.			
6.	Lyonia lucida	Shrub	FACW	14.			
7.	Ilex coriacea	Shrub	FACW	15.			
8.	Woodwardia aerolata	Herb	OBL	16.			

Percent of Dominant Species that are OBL, FACW or FAC: (except FAC-) 100%
Include species noted (*) as showing morphological adaptations to wetlands.

Describe Morphological Adaptations: Multi-stemed & buttressed trunks

Remarks: Hydrophytic vegetation was present.

HYDROLOGY

☐ Recorded Data (Describe in Remarks)
- ☐ Stream, Lake or Tide Gage
- ☐ Aerial Photograph
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: _____ (in.)

Depth to Free Water in Pit: _____ (in.)

Depth to Saturated Soil: 6-8 (in.)

Wetland Hydrology Indicators: **see below**

- ☐ Inundated
- ☒ Saturated in Upper 12 Inches
- ☒ Water Marks
- ☒ Drift Lines
- ☐ Sediment Deposits
- ☒ Drainage Patterns in Wetlands
- ☒ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☒ Local Soil Survey Data
- ☐ Other (Explain in Remarks)

Remarks: Jurisdictional hydrology was present.

SOILS

Map Unit Name Series and Phrase):	Hobcaw (Ho)	Drainage Class:	VPD
Taxonomy (Subgroup):	Typic Umbraquults	Field Observations Confirm Mapped Type?	☐ Yes ☒ No

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concreations, Rhizospheres, etc.
0-12	A1	10YR 2/1			Sandy loam
12-15	A2	10YR 3/2			Loamy sand
15-30	Btg	10 YR 3/2			Sandy loam

Hydric Soil Indicators: **see below**

☐	Histosol	☐	Concretions
☒	Histic Epipedon	☒	High Organic Content in Surface Layer
☒	Sulfide Odor	☒	Organic Streaking
☒	Aquic Moisture Regime	☒	Listed on Local Hydric Soils List
☐	Reducing Conditions	☐	Listed on National Hydric Soils List
☒	Gleyed or Low-Chroma Colors	☒	Other (Explain in Remarks)

Remarks: Hydric soil was present.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes☒	No☐	Wetland Hydrology Present?	Yes☒	No☐
Hydric Soils Present?	Yes☒	No☐	Is this Sampling Point Within A Wetland?	Yes☒	No☐

Remarks: Wetland criteria was present.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 USACE Wetlands Delineation Manual)

Project Site:	Epps No. 1 Industrial Site	Date:	11-26-08
Applicant/Owner:	Williamsburg County	County:	Williamsburg
Investigator:	Charles Oates (S&ME,Inc.)	State:	SC
Do normal circumstances exist on the site?	Yes☒ No☐	Community ID:	Upland Area
Is the site significantly disturbed (Atypical Situation)?	Yes☐ No☒	Transect ID:	
Is the area a potential problem area? (if needed, explain on reverse)	Yes☐ No☒	Plot ID:	2

VEGETATION (Note those species observed to have morphological adaptations to wetlands with an *)

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1.	Quercus alba	Tree	FACU	9.			
2.	Q. falcata	Tree	FACU	10.			
3.	Prunus serotina	Tree	FACU	11.			
4.	Magnolia grandifolra	Tree	FAC+	12.			
5.	Sassafras albidium	Shrub	FACU	13.			
6.	Cornus florida	Shrub	FACU	14.			
7.	Pteridum aquilinum	Herb	FACU	15.			
8.	Smilax smallii	vine	FACU	16.			

Percent of Dominant Species that are OBL, FACW or FAC: (except FAC-)
Include species noted (*) as showing morphological adaptations to wetlands.

Describe Morphological Adaptations: N/A

Remarks: Hydrophytic vegetation was not present, the site is currently being used as an agricultural field.

HYDROLOGY

☐ Recorded Data (Describe in Remarks)
- ☐ Stream, Lake or Tide Gage
- ☐ Aerial Photograph
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: _____ (in.)

Depth to Free Water in Pit: _____ (in.)

Depth to Saturated Soil: >30 (in.)

Wetland Hydrology Indicators: N/A

- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ Other (Explain in Remarks)

Remarks: Jurisdictional hydrology was not present.

SOILS

Map Unit Name Series and Phrase):	Emporia (EmA)	Drainage Class:	**WD**
Taxonomy (Subgroup):	Typic Hapludults	Field Observations Confirm Mapped Type?	☐ Yes ☐ No

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concreations, Rhizospheres, etc.
0-8	Ap	10YR 5/3			Loamy sand
8-23	Bt1	10YR 5/8			Sandy clay loam
23-37	Bt2	10YR 6/8			Sandy clay

Hydric Soil Indicators: **N/A**

☐	Histosol	☐	Concretions
☐	Histic Epipedon	☐	High Organic Content in Surface Layer
☐	Sulfide Odor	☐	Organic Streaking
☐	Aquic Moisture Regime	☐	Listed on Local Hydric Soils List
☐	Reducing Conditions	☐	Listed on National Hydric Soils List
☐	Gleyed or Low-Chroma Colors	☐	Other (Explain in Remarks)

Remarks: Hydric soil was not present.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes☐	No☒	Wetland Hydrology Present?	Yes☐	No☒
Hydric Soils Present?	Yes☐	No☒	Is this Sampling Point Within A Wetland?	Yes☐	No☒

Remarks: Jurisdictional criteria was not present.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 USACE Wetlands Delineation Manual)

Project Site:	Epps No. 1 Industrial Site	Date:	11/26/08
Applicant/Owner:	Williamsburg County	County:	Williamsburg
Investigator:	Charles Oates (S&ME,Inc.)	State:	SC
Do normal circumstances exist on the site?	Yes☒ No☐	Community ID:	Forested Upland
Is the site significantly disturbed (Atypical Situation)?	Yes☐ No☒	Transect ID:	
Is the area a potential problem area? (if needed, explain on reverse)	Yes☐ No☒	Plot ID:	Data point 3

VEGETATION (Note those species observed to have morphological adaptations to wetlands with an *)

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1.	Liquidambar styraciflua	Tree	FAC+	9.			
2.	Liriodendron tulipifera	Tree	FAC	10.			
3.	Magnolia grandiflora	Tree	FAC+	11.			
4.	Cornus florida	Shrub	FACU	12.			
5.	Smilax smallii	Vine	FACU	13.			
6.	Gelsemium sempervirens	Vine	FAC	14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC: (except FAC-) 100%
Include species noted (*) as showing morphological adaptations to wetlands.

Describe Morphological Adaptations:

Remarks: Hydrophytic vegetation was present.

HYDROLOGY

☐ Recorded Data (Describe in Remarks)
- ☐ Stream, Lake or Tide Gage
- ☐ Aerial Photograph
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: _____ (in.)

Depth to Free Water in Pit: _____ (in.)

Depth to Saturated Soil: >30 (in.)

Wetland Hydrology Indicators: **see below**

- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ Other (Explain in Remarks)

Remarks: Jurisdictional hydrology was not present. Recent rainfall amounts over the past four months have placed this area back in "Normal Rainfall Conditions".

SOILS

Map Unit Name Series and Phrase):	Coxville (Co)	Drainage Class:	**poorly drained**
Taxonomy (Subgroup):	Typic Paleaquults	Field Observations Confirm Mapped Type?	☐ Yes ☐ No

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concreations, Rhizospheres, etc.
0-6	A	10YR 3/2			loam
6-14	E	10YR 5/2			loam
14-28	Btg1	10YR 5/1			clay loam

Hydric Soil Indicators: **see below**

☐	Histosol	☐	Concretions
☒	Histic Epipedon	☒	High Organic Content in Surface Layer
☒	Sulfide Odor	☒	Organic Streaking
☒	Aquic Moisture Regime	☒	Listed on Local Hydric Soils List
☒	Reducing Conditions	☒	Listed on National Hydric Soils List
☒	Gleyed or Low-Chroma Colors	☐	Other (Explain in Remarks)

Remarks: Hydric soil was present.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes☒	No☐	Wetland Hydrology Present?	Yes☐	No☒
Hydric Soils Present?	Yes☒	No☐	Is this Sampling Point Within A Wetland?	Yes☐	No☒

Remarks: Wetland criteria was not present.

Course	Bearing	Distance
L13	S 80°34'51" E	16.22'
L14	N 34°36'14" E	42.22'
L15	N 59°17'33" E	45.40'
L16	N 70°36'39" E	33.21'
L17	N 60°18'43" E	44.64'
L18	S 88°02'51" E	35.52'
L19	N 56°55'57" E	42.98'
L20	N 26°07'38" E	44.27'
L21	N 16°52'14" W	36.81'
L22	N 12°22'50" E	53.52'
L23	N 02°09'23" E	50.12'
L24	N 33°22'25" E	33.15'
L25	N 44°45'39" E	50.67'
L26	N 67°50'16" E	41.03'
L27	N 68°13'16" E	40.31'
L28	N 75°01'14" E	42.16'
L29	S 78°39'22" E	55.71'
L30	N 71°10'53" E	53.73'
L31	N 07°26'47" E	48.04'
L32	N 54°25'44" E	40.25'
L33	N 02°57'58" E	33.26'
L34	N 04°14'31" W	50.24'
L35	N 10°01'33" E	49.59'
L36	N 10°50'47" E	70.90'
L37	N 08°34'45" E	65.06'
L38	N 11°31'38" E	60.91'
L39	N 11°36'03" E	57.21'
L40	N 10°30'44" E	49.12'
L41	N 11°43'09" E	69.63'
L42	N 06°13'08" E	47.89'
L43	N 46°28'27" W	51.05'
L44	N 67°30'12" W	30.54'
L45	N 72°02'31" W	23.90'
L46	N 49°17'15" W	73.16'
L47	N 21°00'34" W	49.16'
L48	N 01°17'35" W	29.94'
L49	N 05°12'57" E	30.46'
L50	N 15°34'21" E	24.80'
L51	N 21°04'16" E	21.12'
L52	N 51°54'13" E	34.41'
L53	N 14°44'02" E	28.04'
L54	N 15°23'33" E	27.17'
L55	N 54°18'34" E	37.29'
L56	N 50°42'17" E	42.44'
L57	N 39°27'43" E	25.50'
L58	N 63°07'17" E	52.45'
L59	N 60°43'37" E	46.79'
L60	N 53°29'54" E	51.73'
L61	N 55°42'37" E	58.51'
L62	N 51°55'33" E	59.43'
L63	N 78°09'50" E	43.64'
L64	N 73°12'44" E	45.06'
L65	S 80°45'17" E	46.37'
L66	N 79°58'40" E	40.81'
L67	S 78°37'38" E	58.43'
L68	S 86°24'55" E	43.72'
L69	N 54°41'49" E	53.42'
L70	N 23°30'47" W	28.57'
L71	N 29°37'17" W	30.25'
L72	N 30°24'39" E	36.79'
L73	N 45°28'42" E	31.69'
L74	N 76°23'58" E	54.29'
L75	N 89°46'12" E	50.15'
L76	N 79°33'30" E	64.51'
L77	S 77°51'43" E	41.40'
L78	S 63°58'31" E	41.41'
L79	S 73°03'38" E	80.95'
L80	S 64°16'18" E	71.65'
L81	S 67°26'06" E	46.22'
L82	S 72°43'10" E	49.70'
L83	S 66°01'53" E	72.87'
L84	S 67°09'39" E	56.20'
L85	S 84°14'43" E	91.35'
L86	S 88°02'48" E	92.93'
L87	S 83°24'21" E	82.20'
L88	N 88°17'24" E	78.84'
L89	N 82°12'58" E	72.25'
L90	N 78°59'20" E	56.71'
L91	S 87°21'03" E	31.57'

Grid Bearing

GRAPHIC SCALE - FEET

Course	Bearing	Distance
L1	N 75°43'56" E	134.17'
L2	N 79°33'06" E	61.09'
L3	N 85°27'27" E	240.84'
L4	N 77°41'23" E	271.49'
L5	S 87°09'31" E	125.37'
L6	S 71°38'15" E	187.75'
L7	S 58°16'16" E	72.19'
L8	S 70°01'09" E	121.22'
L9	S 76°58'39" E	138.01'
L10	S 85°18'48" E	224.56'
L11	N 78°13'38" E	207.27'
L12	S 16°12'42" W	35.25'

DIST._____Map_____Parcel_____
ON WILLIAMSBURG COUNTY TAX MAPS
SPLIT FROM_____

WILLIAMSBURG COUNTY TAX ASSESSOR

Since the Center on the Intermittent RPW is the Property Line, the Included Acreage is only about 0.1 Acre.

Perennial RPW
Approximately 0.1 Acre

Williamsburg County

Center Line
Ditch the Line
Progress Energy
100'

I.Rod Fd.

Man Hole
Cover 56.51
Invert 39.36'

Lift Plt
Cover 57.06
Pipe 39.06'
Bottom 34'

Ditch

Elect. Panel

24.78' Wetland Line
to North Property Line

Rebar Fd.

Property Line to
Rebar Found

Man Hole
57.38

ARV

PP

Overhead Electric Line

S 16°14'21"W 1383.24'

125' R/W

TBM RR Spk
In Power Pole
NAVD '88
59.25

U. S. Hwy 52

1703.77'

N 18°27'59"E

9.9 Acres
of Designated
Wetlands

Jane E. Dewitt
Remainder of Parcel

Rebar
N 687,324.08
E 2,361,648.4

Rebar
N 686,894.62
E 2,361,549.43
NAVD '88

S 02°09'49"W
103.12'

Rebar Set

Fire Hydrate

S 16°15'18"W
428.83'

I.Rod Fd.

30' Access Reserved

N 80°34'11"W 1778.45'
Iron to Iron

Ditch

T. Mauldin Brown

0.87 Acres
of Designated
Wetlands

R/W

100'

Course	Bearing	Distance
L92	N 80°34'12" W	113.96'
L93	N 80°34'12" W	197.09'
L94	N 54°24'40" E	40.90'
L95	N 08°52'17" E	31.45'
L96	N 01°53'57" E	42.27'
L97	N 22°59'58" E	30.81'
L98	N 22°40'53" E	31.93'
L99	N 61°29'48" E	42.23'
L100	N 23°47'36" E	25.27'
L101	S 71°57'00" E	35.77'
L102	N 76°38'38" E	33.30'
L103	S 64°56'19" E	39.62'
L104	S 25°30'59" E	40.96'
L105	S 05°18'17" E	38.72'
L106	S 04°47'55" E	56.43'
L107	S 10°04'42" W	34.76'
L108	S 52°49'03" W	41.09'
L109	S 17°31'27" W	20.47'

State of South Carolina
County of Williamsburg
Tax Parcel: part of 45-174-003

J.B. Ellis, Jr
LLS 13849
415 East Main Street
Kingstree, SC
843-355-6872

Wetlands Plat
Epps no.1 Tract

Survey Completed: December 8, 2008

Additional Wetlands Added: July 6, 2009

73.22 Acres Total Area

62.35 Acres of Land
Excluding Designated Wetlands
And Intermittent RPW

C 4160
Wetlands

WBUG4160WetlandSSPCoor

Site Certification for the
Williamsburg Cooperative Commerce Centre South
In Williamsburg County, South Carolina

Attachment 21

Wetlands Delineation for
Tracts 8-10 and 13 of the Williamsburg Cooperative
Commerce Centre

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

JURISDICTIONAL DETERMINATION REQUEST

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

Project Name: Epps #1 Additional Land **Date:** 4/21/11

County: Williamsburg County **Total Acreage of Tract:** +/- 39 Acres

Property Owner : Williamsburg County
Address: Post Office Box 1132
Address: Kingstree, SC 29556
Phone: (843) 382-9393
Email: Attention: Mr. Hilton McGill

Agent: S&ME, Inc. (Charles Oates)
Address: 1330 Highway 501 Business
Address: Conway, SC 29526
Phone: (843) 347-7800
Email: coates@smeinc.com

Information Required to Accompany Request - Check the items submitted - forward as much information as is available. At a minimum, the first two items must be forwarded:

☒ Accurate Location Maps (from County Map, USGS Quad Sheet, etc.)

☐ Survey Plat or Tax Map of the Property in Question

☒ Soil Survey Sheet (from USDA-NRCS) or Aerial Photo (from County Assessor's Office or other source). Property boundaries should be shown on the soil survey / photo.

☒ Topographic Survey

☐ Conceptual Site Plan for the Overall Development

☒ Description of the proposed use of the property (residential, commercial, industrial, silvicultural, agricultural, etc.)

☒ Status of the project (on-going site work for development, development in planning stages, no plans at this time, etc.)

Type of Determination Requested - Choose one:

○ Preliminary – Preliminary determinations will identify whether wetlands or other waters are present on the site and will presume that they are jurisdictional. This type of determination is likely to be made more quickly and require less information be submitted.

⊙ Approved – Approved determinations will identify whether wetlands or other waters are present on the site and will include a determination of their jurisdictional status. This type of determination is likely to take longer and require more detailed information be submitted.

IMPORTANT NOTE: Legible printed name and signature required. The person signing this form must be the present property owner or have the specific authority of the property owner to authorize Corps of Engineers employees or their agents to enter onto the property for on-site investigations if such is deemed necessary. Do not sign this form unless you are the owner, or have the specific authority of the property owner.

PRINTED NAME of person signing this form, below: Charles C. Oates, Jr.

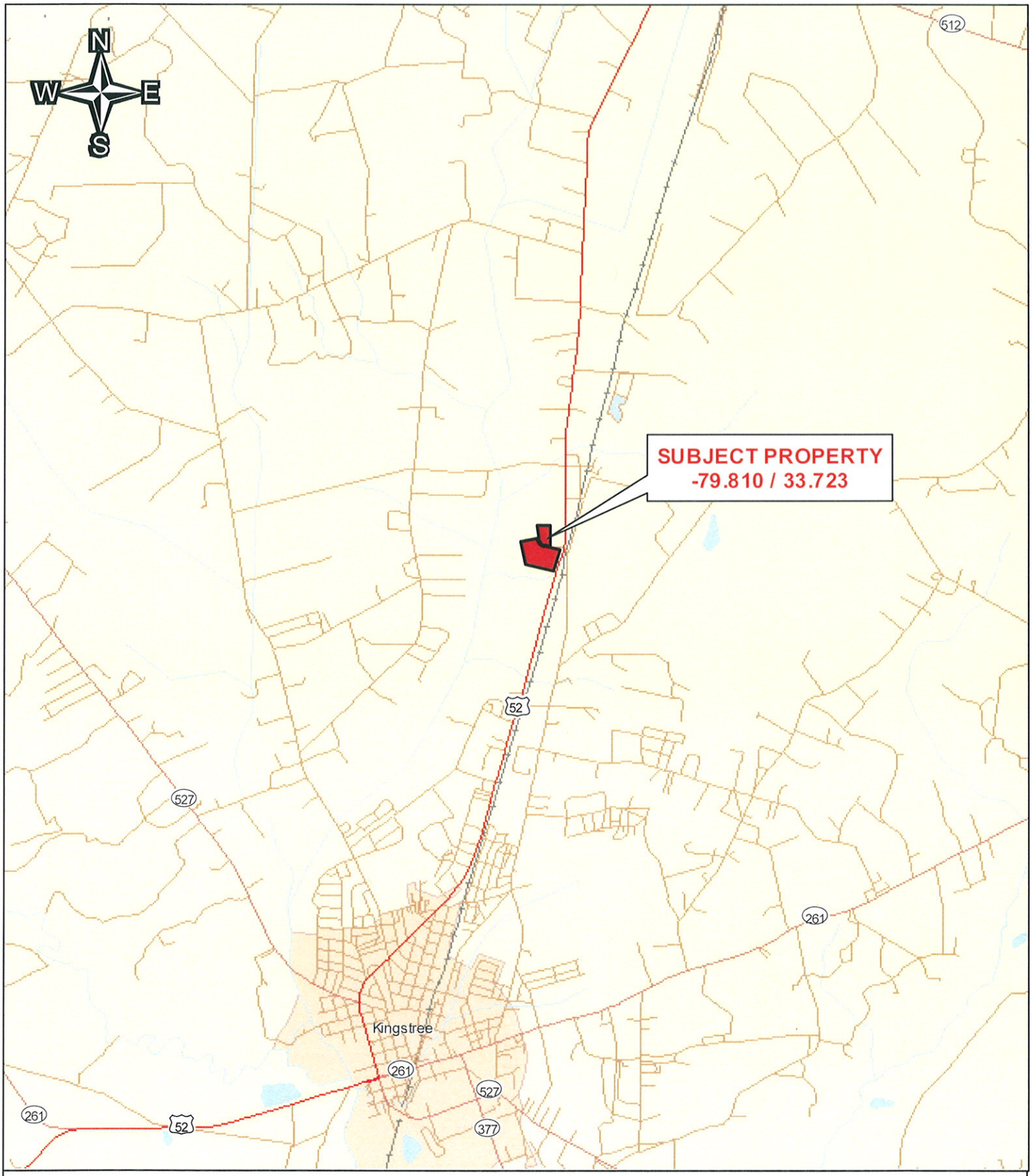
Signature of Property Owner or Authorized Agent: Charles C. Oates Jr.

HQ and South Branch
69-A Hagood Avenue
Charleston, SC 29403
843-329-8044

Northeast Branch
1949 Industrial Park Rd, Room 140
Conway, SC 29526
843-365-4239

Northwest Branch
1835 Assembly St., Room 865-B1
Columbia, SC 29201
803-253-3444

Copies of this form may be obtained at: http://www.sac.usace.army.mil/assets/pdf/regulatory/permits/request_jurisdictional_determination_form.pdf



0 0.5 1 2 3 4 Miles

SCALE:	1"= 1 MILE
BACKGROUND SOURCE:	ESRI
SOURCE DATE:	2007
DATE:	FEBRUARY 2011

S&ME

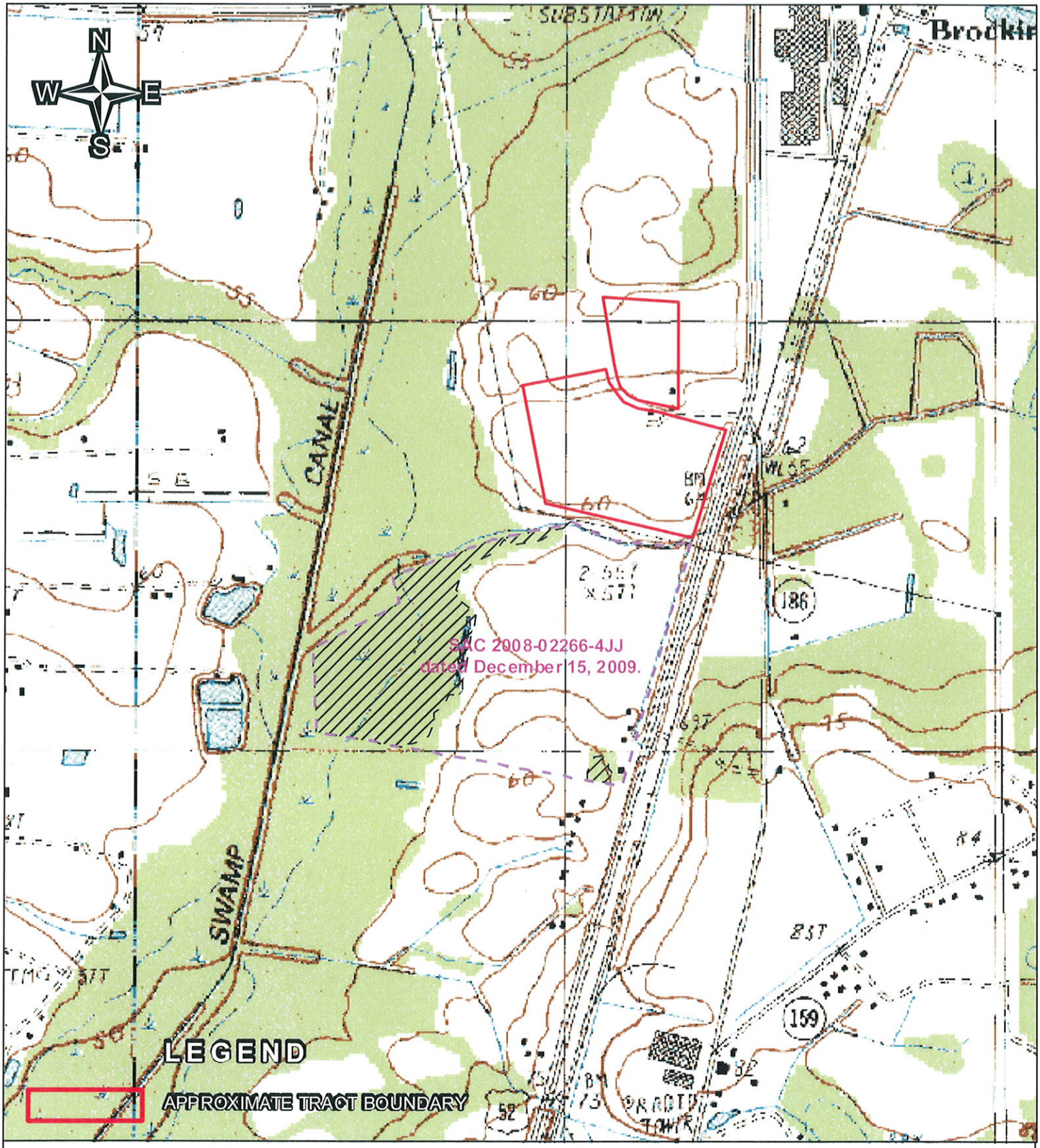
WWW.SMEINC.COM

SITE VICINITY MAP
EPPS #1 ADDITIONAL LAND
WILLIAMSBURG CO., SC

S & ME PROJECT # 1634-11-040

FIGURE #

1



PORTION OF THE USGS 7.5-MIN KNIGSTREE, SC TOPOGRAPHIC QUADRANGLE

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

SCALE:	1"= 1,000'
BACKGROUND SOURCE:	TERRASERVER DATA
SOURCE DATE:	1990
DATE:	FEBRUARY 2011

S&ME

WWW.SMEINC.COM

SITE TOPOGRAPHIC MAP
EPPS #1 ADDITIONAL LAND
WILLIAMSBURG CO., SC

S & ME PROJECT # 1634-11-040

FIGURE #

2

0 300 600 1,200 1,800 2,400
Feet

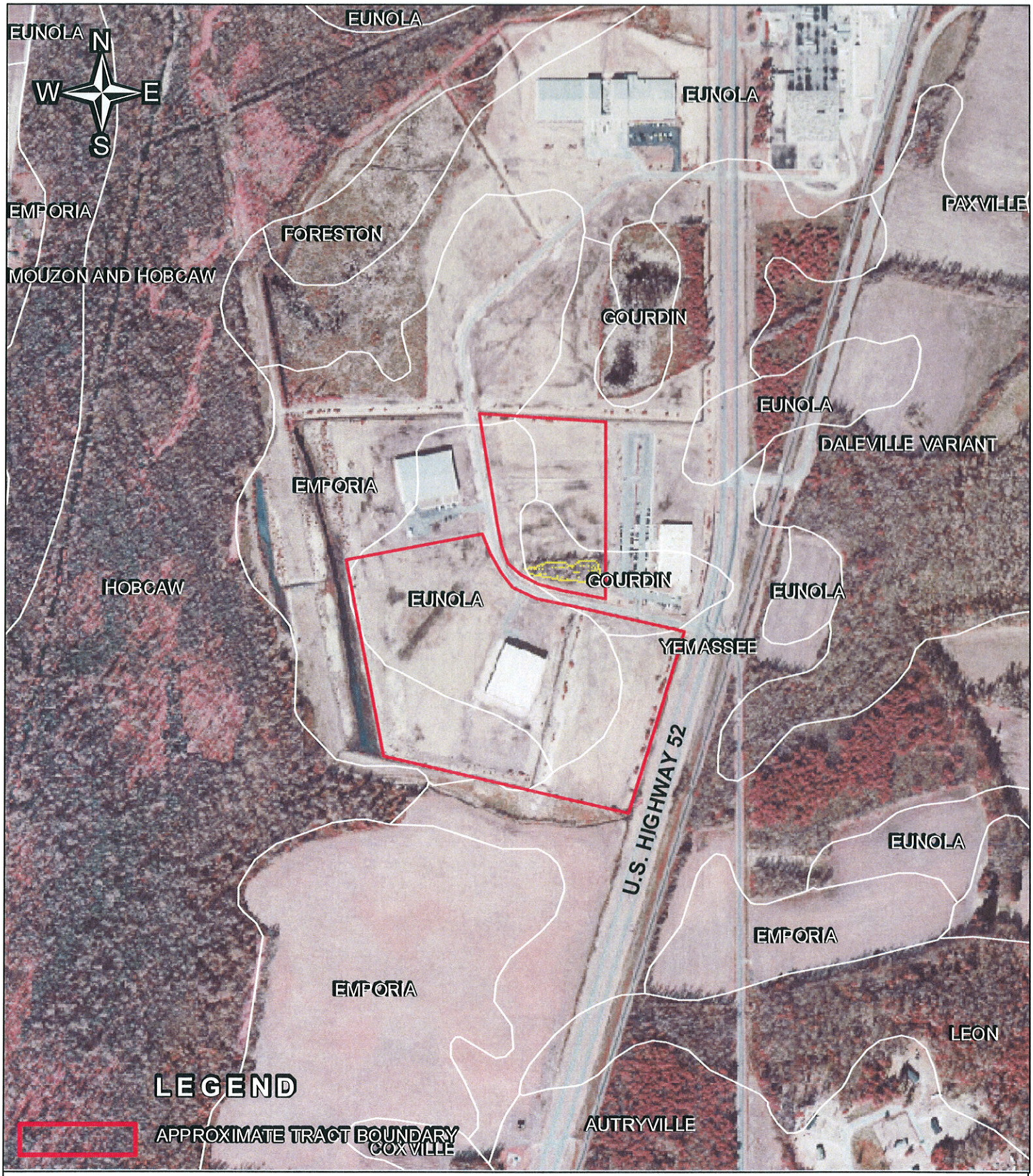
SCALE:	1"= 600'
BACKGROUND SOURCE:	SCDNR GIS DEPT.
SOURCE DATE:	2006
DATE:	FEBRUARY 2011

S&ME
WWW.SMEINC.COM

SITE AERIAL PHOTOGRAPH
EPPS #1 ADDITIONAL LAND
WILLIAMSBURG CO., SC

S & ME PROJECT # 1634-11-040

FIGURE #
3



0 300 600 1,200 1,800 2,400 Feet

SCALE:	1"= 600'
BACKGROUND SOURCE:	SCDNR GIS DEPT.
SOURCE DATE:	1984
DATE:	FEBRUARY 2011

S&ME

WWW.SMEINC.COM

SITE SOIL SURVEY MAP
EPPS #1 ADDITIONAL LAND
WILLIAMSBURG CO., SC

S & ME PROJECT # 1634-11-040

FIGURE #

4

0 200 400 800 1,200 1,600

Feet

SCALE:	1"= 400'
BACKGROUND SOURCE:	SCDNR GIS DEPT.
SOURCE DATE:	1984
DATE:	FEBRUARY 2011

S&ME

WWW.SMEINC.COM

SITE NWI MAP
EPPS #1 ADDITIONAL LAND
WILLIAMSBURG CO., SC

S & ME PROJECT # 1634-11-040

FIGURE #

5

1 Data Point 1.

2 Soils at Data Point 1.

3 Wooded wetland area at Data Point 2.

4 Existing Spec Building on site.

S&ME

Site Photographs
Epps #1 Industrial Park Additional Land

S&ME Project No.: 1634-11-040

Taken by: CO

Date: 2/21/11

5 Wetland Area at Data Point 2.

6 Wetland at Data Point 2.

7 Soils at Data Point 2.

S&ME

Site Photographs
Epps #1 Industrial Park Additional Land

S&ME Project No.: 1634-11-040

Taken by: CO

Date: 2/21/11

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Epps #1 Additional Land City/County: Kingstree/Williamsburg Sampling Date: 2/21/11

Applicant/Owner: Williamsburg County State: SC Sampling Point: DP1

Investigator(s): Charles Oates (S&ME, Inc.) Section, Township, Range:

Landform (hillslope, terrace, etc.): Cleared and Graded Land Local relief (concave, convex, none): none Slope (%): 0%

Subregion (LRR or MLRA): LRR T Lat: 33.723 Long: -79.810 Datum: NAD83

Soil Map Unit Name: Gourdin NWI classification: U21

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☐ 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:

This area has been cleared and graded as part of an industrial park from a previous determination.

HYDROLOGY

Wetland Hydrology Indicators:

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

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ 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 on 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 two 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)

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:

VEGETATION – Use scientific names of plants.

Sampling Point: DP1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	_____ = Total Cover		
Sapling Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	_____ = Total Cover		
Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. Andropogon virginicus	60	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	60 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ 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.

Definitions 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.

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

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

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)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-15	10YR 6/6						SCL	Sandy Clay Loam

[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 Mucky Mineral (S1) **(LRR O, S)**
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) **(LRR P, S, T, U)**
- ☐ Polyvalue Below Surface (S8) **(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) **(LRR T, U)**
- ☐ 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:

Soils appear to be imported soils.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Epps #1 Additional Land City/County: Kingstree/Williamsburg Sampling Date: 2/21/11

Applicant/Owner: Williamsburg County State: SC Sampling Point: DP2

Investigator(s): Charles Oates (S&ME, Inc.) Section, Township, Range:

Landform (hillslope, terrace, etc.): Isolated wetland Local relief (concave, convex, none): concave Slope (%): 1%

Subregion (LRR or MLRA): LRR T Lat: 33.723 Long: -79.810 Datum: NAD83

Soil Map Unit Name: Gourdin NWI classification: PFO1Bd

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ 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 is 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 on 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 two 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)

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): 6-8

Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: DP2

Tree Stratum (Plot size: 1/10 Ac.)	Absolute % Cover	Dominant Species?	Indicator Status
1. Liriodendron tulipifera	50	Yes	FAC
2. Liquidambar styracflua	50	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	100%	= Total Cover	

Sapling Stratum (Plot size:)			
1. Liriodendron tulipifera	20	Yes	FAC
2. Liquidambar styracflua	30	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	50	= Total Cover	

Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
		= Total Cover	

Herb Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

Woody Vine Stratum (Plot size: 1/10 Ac.)			
1. Smilax laurifolia	40	Yes	FACW
2.			
3.			
4.			
5.			
	40	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ 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.

Definitions 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.

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

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

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes [x] No [ ]

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

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
0-5	10YR 3/1						Loam	
5-15	10YR 5/2						SCL	Sandy Clay Loam
15-25	10YR 5/1						Clay	

[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 Mucky Mineral (S1) **(LRR O, S)**
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☒ Dark Surface (S7) **(LRR P, S, T, U)**
- ☐ Polyvalue Below Surface (S8) **(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) **(LRR T, U)**
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

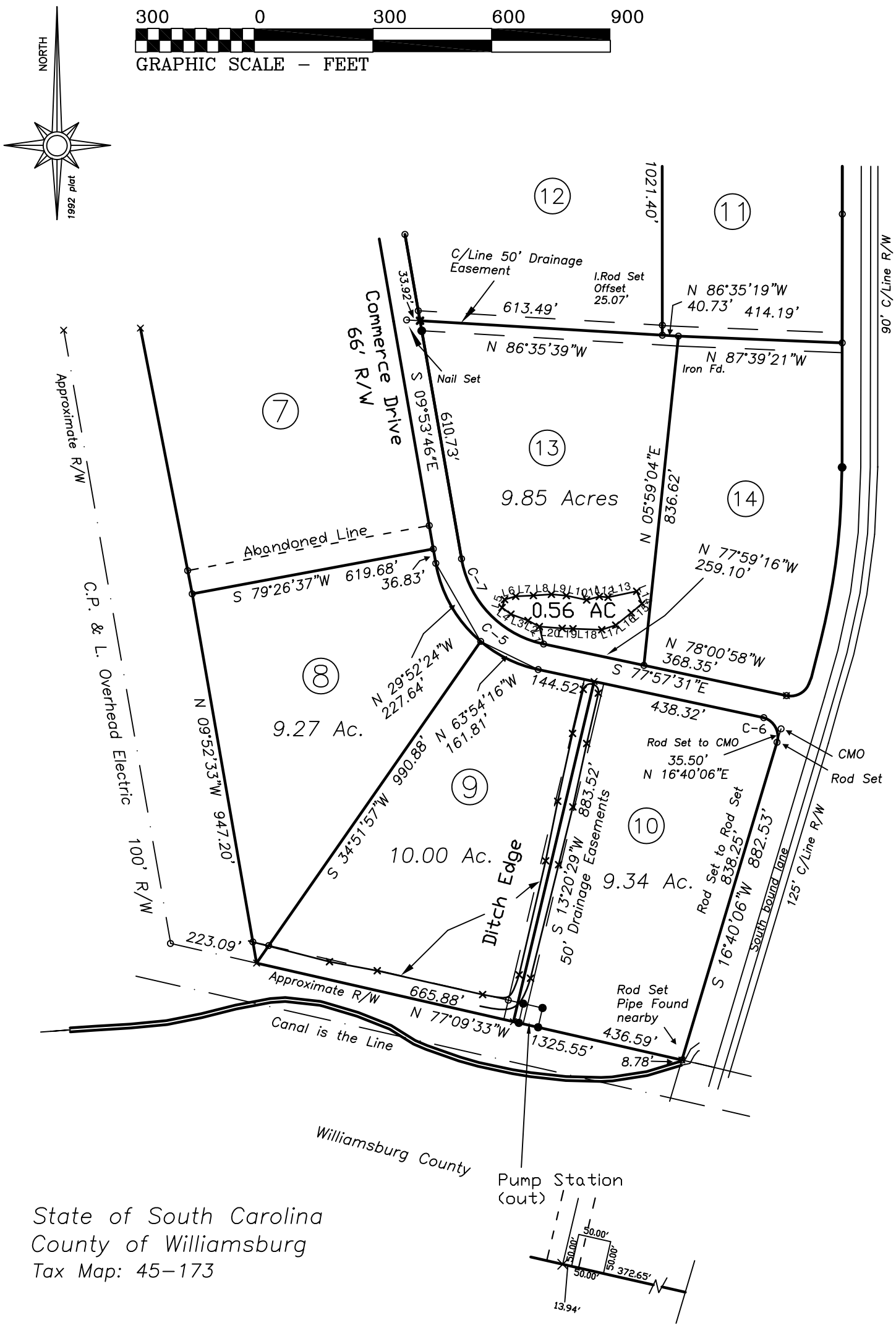
Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:



State of South Carolina
County of Williamsburg
Tax Map: 45–173

CURVE	RADIUS	TANGENT	LENGTH	DELTA	DEGREE	CHORD	CH.BEARING
C–5	333.15'	224.98'	395.76'	68°03'45"	17°11'53"	372.90'	S 43°55'39"E
C–6	50.00'	50.00'	78.54'	90°00'00"	114°35'30"	70.71'	S 28°19'54"E
C–7	267.15'	180.41'	317.36'	68°03'45"	21°26'48"	299.02'	N 43°55'39"W

Course	Bearing	Distance
L1	N 13°52'14" W	45.50'
L2	N 62°11'16" W	32.23'
L3	N 69°24'04" W	46.12'
L4	N 53°34'22" W	28.01'
L5	N 17°43'13" E	21.14'
L6	N 73°41'16" E	29.33'
L7	N 87°26'09" E	44.72'
L8	N 86°11'46" E	45.69'
L9	S 85°04'56" E	37.71'
L10	S 77°59'05" E	52.49'
L11	N 74°58'51" E	33.35'
L12	S 84°54'34" E	22.15'
L13	N 78°02'22" E	73.91'
L14	S 22°34'08" E	34.09'
L15	S 49°25'12" W	35.48'
L16	S 51°26'52" W	50.22'
L17	S 71°53'32" W	37.00'
L18	N 88°00'49" W	72.92'
L19	N 87°30'14" W	27.18'
L20	N 85°32'32" W	57.96'

J.B. Ellis, Jr
LLS 13849
415 East Main Street
Kingstree, SC
843-355-6872

Williamsburg County Development Corporation

Wetland Survey of Lots 8, 9, 10 and 13

Survey Completed: April 28, 2011

WBUG2101 wet May 1998