



August 12, 2005

1614-05-296  
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Reference: **Jurisdictional Wetland/Waters Delineation**  
Marlboro County Industrial Park - 236 Acres  
Bennettsville, Marlboro County, South Carolina  
S&ME Job No. 1614-05-296

1614-05-296

On behalf of Alliance Consulting Engineers, S&ME, Inc. (S&ME) has completed a Jurisdictional Wetland Delineation at the above-referenced site. The approximate 236-acre site is located east of S.C. Highway 38 and north of Beauty Spot Road East near Bennettsville. The site drains to Lilly Quick Creek east of the site and eventually to Lake Wallace and Crooked Creek within the Great Pee Dee River watershed.

Enclosed, please find the following information for your review: 1) site vicinity map; 2) USGS topographic map; 3) 1999 aerial photograph; 4) Marlboro County soil survey map; 5) site photographs; and 6) wetland/upland datasheets.

On July 29 and August 4, 2005, Chris Daves conducted the jurisdictional wetland delineation. Please refer to Figure 3 for the following jurisdictional locations:

- **Wetland A** (Photos 1-3) – Carolina bay wetland located on the southern portion of the site. A pipe underneath Ox Bodies Drive connects Wetland A to a ditch that is hydrologically connected to Lake Wallace.

- **Wetland B** (Photo 4) – Linear, forested wetland located on the eastern portion of the site. Soils were saturated throughout Wetland B. Wetland B drains eventually to Lilly Quick Creek east of the site.

The upland portions of the site consist of industrial facilities, fallow fields (Photo 5), and mixed pine-hardwood woodland.

The on-site limits of the jurisdictional areas will likely be surveyed by a registered land surveyor and following your on-site concurrence with our findings, platted at an appropriate scale for your review.

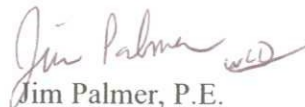
Thank you for your time and attention to this matter. If you require a field visit to verify the location of the jurisdictional areas, we look forward to meeting you onsite. If we can provide any additional information, please do not hesitate to contact Chris Daves at 803-561-9024.

Sincerely,

**S&ME, Inc.**



Chris Daves  
Biologist



Jim Palmer, P.E.  
Geotechnical Department Manager

s:environ/1614-05jobs/1614-05-296/jdrequest

## REQUEST FOR WETLAND DETERMINATION

Date: 8/8/05 County: MARLBORO Total Acreage of Tract: 236 ACRES  
Project Name (if applicable): MARLBORO COUNTY INDUSTRIAL PARK

Property Owner	Agent/Developer/Engineer
(name, address, phone)	(name, address, phone)
Marlboro County	S&ME, Inc. (c/o Chris Daves)
Post Office Box 419	134 Suber Road
Bennettsville, SC 29512	Columbia, SC 29210
(843) 479-5626	(803) 561-9024

**Status of Project** (check one):

- Ongoing 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 or, 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  Agricultural  Public Works  
 Silviculture  Aquaculture  Other: Beautification/Parking

**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 (USDA-NRCS or Aerial Photo (from County Assessor's Office or other source).  
Property boundaries should be shown on the soil survey/aerial 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 the evaluation been coordinated with the US Fish & 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 evaluation has not been coordinated with the US FWS, enclose a copy of your report findings.

**IMPORTANT NOTE:** Legible printed name & signature required. The person signing this form must be the present property owner or have specific authority of the property owner to authorize Corps of Engineers employees or their agents to enter onto the property for on-site investigation 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: Chris Daves

**Signature of the property Owner or Authorized Agent:** Chris Daves



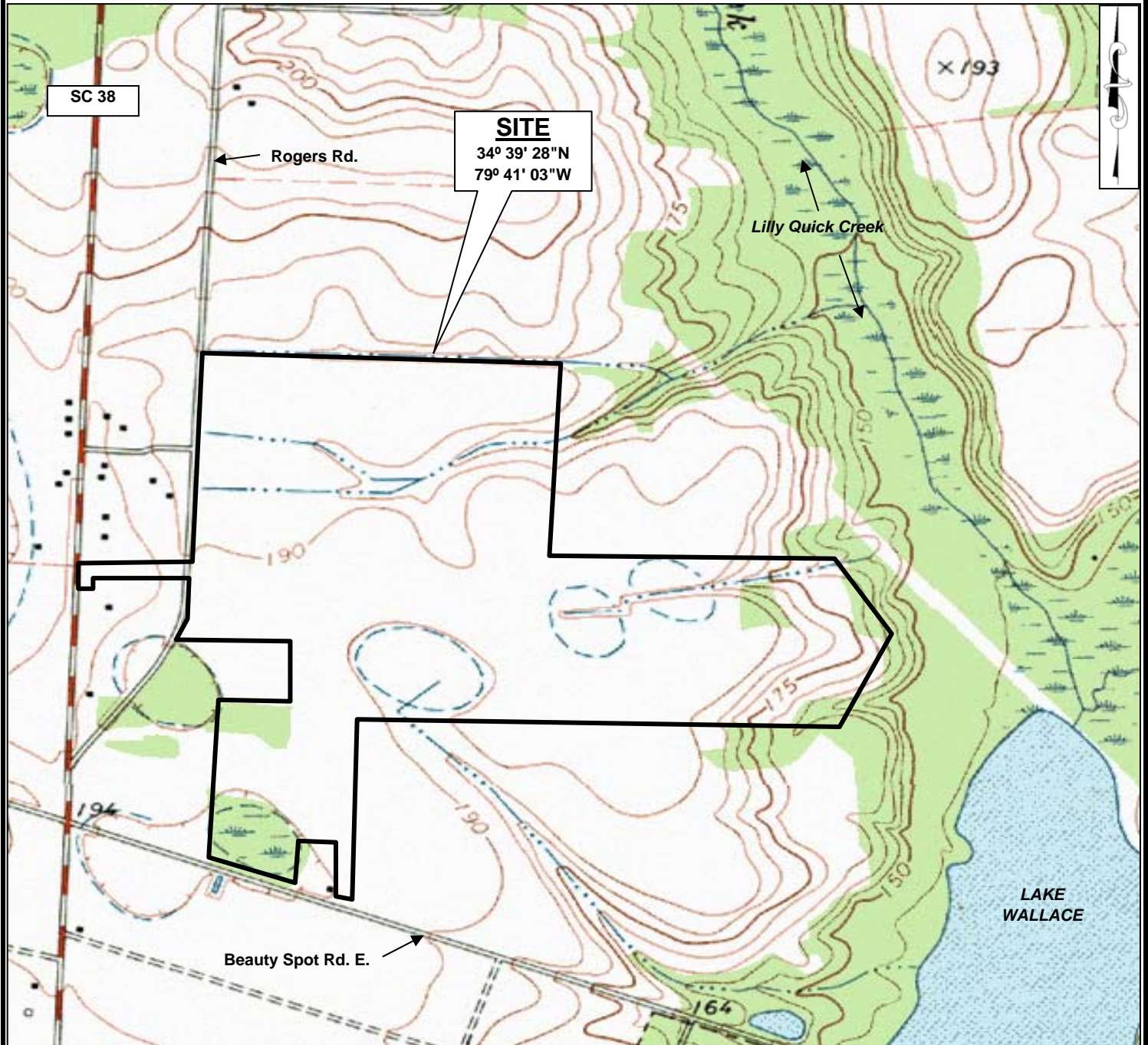
SOURCE: DELORME STREET ATLAS - 1999

SCALE: NTS  
 CHECKED BY: JTP  
 DRAWN BY: WCD  
 DATE: 8/8/2005



**SITE VICINITY MAP**  
 MARLBORO COUNTY INDUSTRIAL PARK - 236 AC.  
 MARLBORO COUNTY, SOUTH CAROLINA  
 S&ME PROJECT NO. 1614-05-296

FIGURE NO.  
**1**



**SOURCE:** USGS 7.5-MINUTE TOPOGRAPHIC QUADRANGLE MAP  
 BENNETTSVILLE NORTH, SC - 1972

SCALE: 1" = 900'  
 CHECKED BY: JTP  
 DRAWN BY: WCD  
 DATE: 8/8/2005

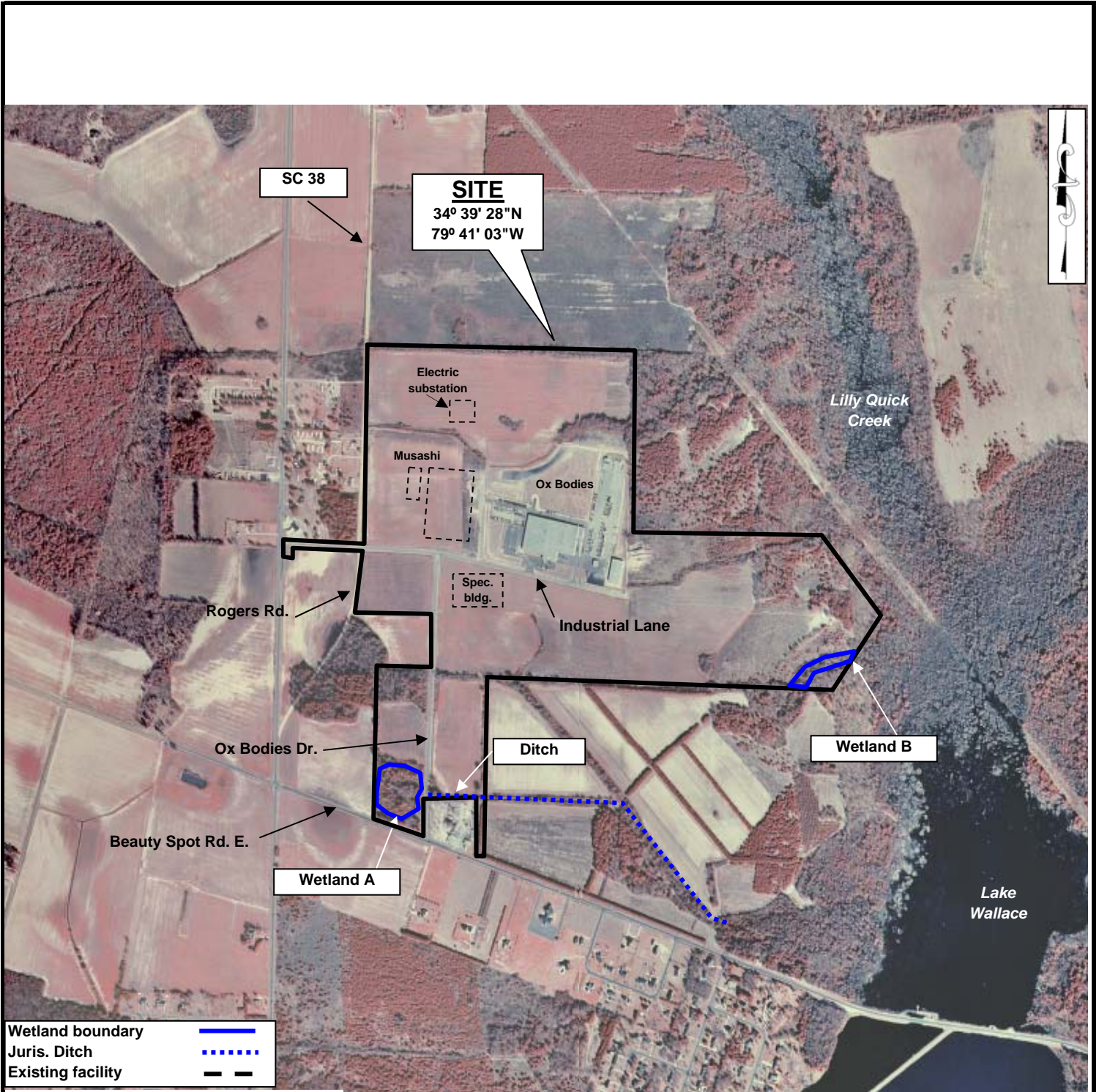


**SITE TOPOGRAPHIC MAP**  
 MARLBORO COUNTY INDUSTRIAL PARK - 236 AC.  
 MARLBORO COUNTY, SOUTH CAROLINA

S&ME PROJECT NO. 1614-05-296

FIGURE NO.  
 2





SOURCE: NAPP AERIAL PHOTOGRAPH - 1999

SCALE: NTS  
 CHECKED BY: JTP  
 DRAWN BY: WCD  
 DATE: 8/8/2005

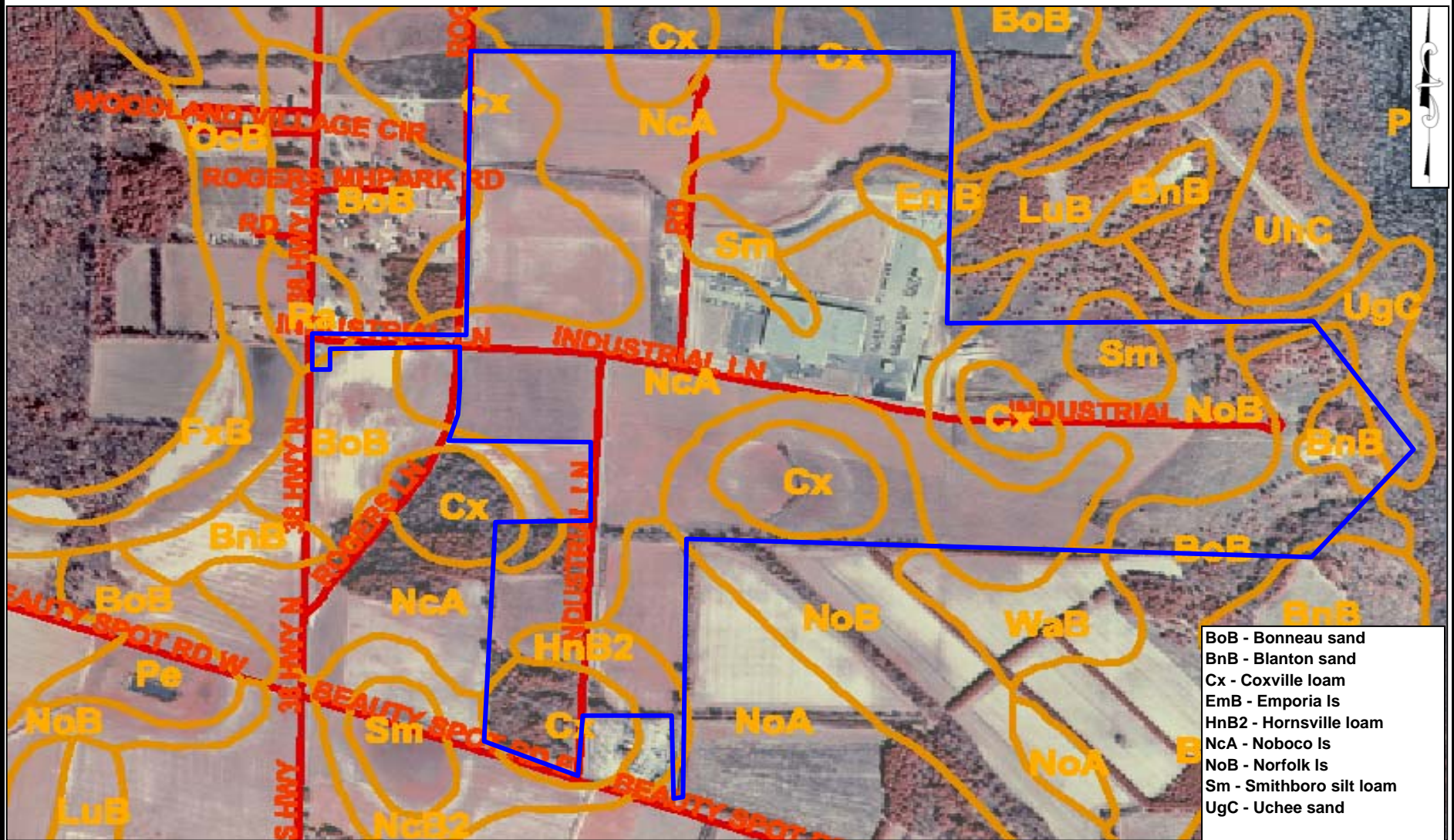


**SITE AERIAL MAP**  
 MARLBORO COUNTY INDUSTRIAL PARK - 236 AC.  
 MARLBORO COUNTY, SOUTH CAROLINA

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FIGURE NO.  
**3**





- BoB - Bonneau sand
- BnB - Blanton sand
- Cx - Coxville loam
- EmB - Emporia ls
- HnB2 - Hornsville loam
- NcA - Noboco ls
- NoB - Norfolk ls
- Sm - Smithboro silt loam
- UgC - Uchee sand

**SOURCE:** SOIL SURVEY OF MARLBORO COUNTY - 2000 CD VERSION

SCALE: NTS  
 CHECKED BY: JTP  
 DRAWN BY: WCD  
 DATE: 8/1/2005



**SITE SOILS MAP**  
 MARLBORO COUNTY INDUSTRIAL PARK  
 MARLBORO COUNTY, SOUTH CAROLINA

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S&ME PROJECT NO. 1614-05-296

**FIGURE NO.**  
 4



## SITE PHOTOGRAPHS



Photo #1: Wetland A on southern portion of site.



Photo #2: Pipe below Ox Bodies Drive connecting Wetland A to a ditch.



Photo #3: Typical soil sample of Wetland A.



Photo #4: Wetland B on the eastern portion of site.



Photo #5: Typical upland on the site.



**DATA FORM  
ROUTINE WETLAND DELINEATION  
(1987 COE WETLANDS DELINEATION MANUAL)**

Project/Site: <b>Marlboro County Industrial Park – 236 Acres</b>			Date: <b>8/3/05</b>		
Applicant/Owner: <b>Marlboro County – c/o Alliance Consulting Engineers</b>			County: <b>Marlboro</b>		
Investigator: <b>Chris Daves – S&amp;ME, Inc.</b>			State: <b>SC</b>		
Do Normal Circumstances exist on the Site?		YES	NO	Community ID: <b>Wetland A PF01</b>	
Is the site significantly disturbed (Atypical Situation)?		YES	NO	Transect ID: <b>1</b>	Plot ID: <b>1</b>
Is the area a potential Problem Area? (If needed, explain on reverse)		YES	NO	Lat: <b>34 38' 28" N</b>	Lon: <b>79 41' 03" W</b>

**VEGETATION**

1.	Dominant Plant Species	Stratum	Indicator	9.	Dominant Plant Species	Stratum	Indicator
1.	<i>Liquidambar styraciflua</i>	Tree	FAC +	9.			
2.	<i>Pinus taeda</i>	Tree	FAC	10.			
3.	<i>Quercus nigra</i>	Tree	FAC	11.			
4.	<i>Quercus phellos</i>	Tree	FACW -	12.			
5.	<i>Acer rubrum</i>	Tree	FAC	13.			
6.	<i>Toxicodendron radicans</i>	Vine	FAC	14.			
7.	<i>Sagittaria arifolia</i>	Vine	FAC	15.			
8.	<i>Campsis radicans</i>	Vine	FAC	16.			
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-):				<b>100% (12.5%)</b>			
Remarks: <b>Carolina bay wetland. Mostly FAC vegetation. Vegetation criteria met.</b>							

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<p style="text-align: center;"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Pattern in Wetlands <p>Secondary Indicators (2 or more required):</p> <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>FIELD OBSERVATIONS</b>	
Depth of Surface Water (in.)	-----
Depth to Free Water in Pit (in.)	-----
Depth to Saturated Soil (in.)	<b>11-12 inches</b>
Remarks: Carolina bay feature on southern portion of site. A pipe below Ox Bodies Drive connects Wetland A to ditch which is hydrologically connected to Lake Wallace southeast of the site.	

**SOILS**

Map Unit Name (Series and Phase): <b>Coxville loam (Cx)</b>		Drainage Class: <b>Poor</b>			
Taxonomy (Subgroup): <b>Typic paleaquults</b>		Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
<b>PROFILE DESCRIPTION</b>		Community ID: <b>Wetland A/ PF01</b>			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	10YR 2/1			Loam
6-12	B	10YR 6/1	10YR 6/6	Abundant	Loamy clay
<b>HYDRIC SOIL INDICATORS</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input checked="" type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input checked="" type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: <b>Hydric soils present.</b>					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Wetland Hydrology Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Remarks: <b>All three criteria met. Jurisdictional Wetland (A).</b>		





