



United States Department of the Interior



FISH AND WILDLIFE SERVICE

176 Croghan Spur Road, Suite 200
Charleston, South Carolina 29407

April 17, 2012

Re: Marion County Industrial Park, Protected Species Assessment, Marion County,
South Carolina, FWS Log No. 2012-TA-0218

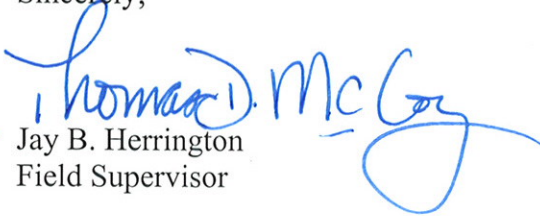
The U.S. Fish and Wildlife Service (Service) has reviewed your April 5, 2012, letter regarding the 351 acre property located near the intersection of U.S. Hwy. 501 and U.S. Hwy. 76, in Marion County, SC. S&ME, Inc., performed an assessment for protected species on the site and are requesting the Service's concurrence on your findings.

S&ME, Inc. provided a habitat description of the site and a survey for threatened and endangered species known to occur in Marion County. Upon completion of the survey you determined that no threatened or endangered species or suitable habitat that might be impacted by any future development is found on the site. The Service has compared your project location to our species and habitat databases and agrees that there are no recorded Federal trust resources in the area.

While the Service is pleased to assist you on this project, it should be noted that a section 7 consultation pursuant to the Endangered Species Act of 1973 (ESA), is only performed to review actions undertaken by Federal agencies. A Federal action may include funding or authorization of a project or through direct agency involvement such as a civil works project. It is then the responsibility of the Federal agency to determine impacts and seek concurrence from the Service pursuant to section 7. As your request does not constitute a Federal action, we cannot provide a concurrence pursuant to the ESA. Further, if the Federal action agency concludes that the project will have no effect upon protected species no consultation is required.

Please contact the South Carolina Department of Natural Resources regarding potential impacts to State protected species. If the proposed project will impact streams and/or wetlands, please contact the U.S. Army Corps of Engineers, Charleston District. If you have any questions on the Service's comments, please contact Mr. Mark Caldwell at (843) 727-4707, ext. 215 and reference FWS Log No. 2012-TA-0218.

Sincerely,

for  Thomas D. McGee
Jay B. Herrington
Field Supervisor

JBH/MAC



April 5, 2012

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Reference: **Protected Species Assessment**
Marion County Industrial Park
Marion County, South Carolina
S&ME Project No. 1634-12-075

20120405-001

S&ME, Inc. (S&ME) is pleased to submit this report detailing our Protected Species Assessment for the above-referenced site located in Marion County, South Carolina. This work was performed in accordance with authorized S&ME Proposal No. 1634-0083-12, dated March 19, 2012. This report and the on-site pedestrian survey have been conducted to assess the potential for the presence of protected species at the subject site, to meet specific due diligence services necessary to satisfy portions of the South Carolina Department of Commerce's (SCDOC) Site Certification Program. This assessment was conducted in conjunction with other due diligence services such as a wetland delineation.

The subject property is comprised of approximately 351 acres, located north of the intersection of U.S. Highway 501 and U.S. Highway 76, in Marion County, South Carolina. A Site Vicinity map is attached to this letter as Figure 1. The site is also identified on Figure 2, which includes a portion of the USGS 7.5-minute Mullins, S.C. topographic quadrangle map, dated 1981.

As part of the previous SCDOC Site Certification process in 2005, the U.S. Fish & Wildlife Service (USF&WS) concurred with our findings by the issuance of their letter (FWS Log No. 2006-TA-0059) dated November 1, 2005. In that letter, the USF&WS stated "*that it is unlikely that any federally endangered or threatened species occur there.*" A copy of that letter is attached to this report.

1.0 SITE/HABITAT DESCRIPTIONS

The site is located in Marion County within the Coastal Plain Physiographic Province of South Carolina. The surrounding properties consist of existing industrial facilities, commercial properties, as well as agricultural and forestland properties.

The subject property is basically comprised of four different ecotypes including loblolly pine (*Pinus taeda*) plantations, agricultural fields, pine and hardwood mixed forest and dense cut-over lands.

Approximately 17% of the property is comprised of planted loblolly pines of varying age class. The mid-story vegetation is dominated by hardwood saplings including species such as sweetgum (*Liquidambar styracflua*) and red maple (*Acer rubrum*). Due to the canopy and mid-story density, there is little herbaceous vegetation growing on the forest floor in these areas.

Approximately 33% of the property is comprised of cleared land that is being used for agricultural purposes.

Approximately 25% of the property is comprised of mature pine and hardwood mixed forest, and pure hardwood forest. These areas are dominated with species such as loblolly pine, sweetgum, red maple, yellow poplar (*Liriodendron tulipifera*) and blackgum (*Nyssa sylvatica*). The mid and under story vegetation is comprised of a dense layer of saplings from the over-story as well as southern wax myrtle (*Myrica cerifera*) and fetter bush (*Lyonia lucidia*).

The remaining 25% of the property is comprised of extremely dense hardwood and pine saplings that have naturally regenerated from harvesting of the mature timber. A review of historical aerial photographs depicts that the timber was harvested sometime between 1994 and 1999. The sapling species are similar to the previously noted species on the remainder of the property.

2.0 PROTECTED SPECIES

The U.S. Fish & Wildlife Service (USF&WS) *South Carolina List of Endangered, Threatened and Candidate Species* (dated March 2010), South Carolina Department of Natural Resources Heritage Trust Program (SCDNR HTP) database (updated on January 17, 2006) and the SCDNR *Rare, Threatened & Endangered Species Inventory Species Found in Marion County* list (updated on January 17, 2006) were consulted regarding current federally protected species within Marion County. The information was reviewed prior to conducting the site visit, to determine if known locations of protected species were located on or near the subject property. The SCDNR HTP database did not have any known occurrences of protected species listed for the Mullins quadrangle. The USF&WS database has five federally protected species listed for Marion County, South Carolina. These species are described in the table on the following page.

Common Name	Scientific Name	Status*
Bald Eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Shortnose sturgeon	<i>Acipenser brevirostrum</i>	E
Canby's dropwort	<i>Oxypolis canbyii</i>	E
Wood stork	<i>Mycteria americana</i>	E

*E = Endangered, BGEPA = Bald and Golden Eagle Protection Act

Pedestrian field reviews were performed for protected species and suitable habitats to support protected species during the week of March 19, 2012, by Mr. Charles Oates, of S&ME. Charles Oates has over twelve years of conducting protected species and critical habitat assessments. The results of the pedestrian field review are included in the following sections of this report, as well as a discussion of the above species, where applicable.

Plants:

No Effect

Canby's dropwort is a perennial herb that grows in Coastal Plain habitats including pond cypress savannas, wet pineland savannas, wet meadows, Carolina bays, sloughs, and around the edges of cypress-pine ponds, that are usually wet most of the year and have a sparse or non-existent canopy. Canby's dropwort produces a five-parted white flower with pale green sepals that appear from mid August to early October. While the pedestrian survey was not conducted during the flowering period of this species, suitable habitat was not observed on the subject property. Therefore, it is our opinion that future development of the property will not have an adverse effect on this species.

Vertebrates:

No Effect

Birds:

The bald eagle (*Haliaeetus leucocephalus*) is offered protection under the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668c), enacted in 1940. The bald eagle requires mature trees for nesting that are in close proximity to large bodies of water to feed. The subject property does not contain large bodies of water or large mature trees needed for nesting.

The Red-cockaded woodpecker requires mature longleaf pines (*Pinus palustris*) or loblolly pine (*P. taeda*) with an open understory that does not exceed 15' in height, and evenly spaced trees with an open, park like stand. There was no habitat encountered on, or adjacent to, the subject property sufficient to support Red-cockaded woodpecker nesting or foraging trees.

The wood stork typically requires coastal areas, tidal waters, marshes, swamps, streams and mangroves for nesting and feeding. The wetlands on the subject property are adjacent to the Kingstree Swamp Canal, which has removed the majority of the standing

water within the wetlands. Due to the fact that the wetlands on the subject property are rarely inundated, they would not be considered suitable habitat for the wood stork.

Reptiles & Amphibians:

There are no federally listed reptiles or amphibians for Marion County.

Fish and Marine Species:

The shortnose sturgeon inhabits river mouths, lakes, estuaries, bays, and some near-shore benthic areas. Individuals less than 5 years of age primarily use estuarine habitats for most of the year. Adults generally utilize separate summer and wintering areas, though greatest abundance occurs in estuaries. Critical habitat areas in river systems in the southern United States are those areas that contain a saltwater/freshwater interface. Foraging habitat includes vegetated backwaters, and shallow river banks where water is less than 6 feet deep. However, in late summer, when water temperatures are elevated, feeding can occur in deeper areas. The subject property or adjacent properties do not contain suitable habitat for the shortnose sturgeon.

Mammals:

There are no federally protected species of mammals listed for Marion County.

Invertebrate:

No Effect

Freshwater Mussels:

There are no federally protected species of freshwater mussel listed in Marion County.

3.0 METHODOLOGY

S&ME reviewed the SCDNR HTP and the USF&WS databases for records of protected species known to occur within Marion County, S.C. The purpose of the search was to identify current and historic documented occurrences of protected species located within this county. Additionally, S&ME personnel reviewed available supporting information including the USGS Topographic Quadrangles and applicable soil survey data. The purpose of reviewing this supporting information was to identify drainage features and soil types in the site area that may be suitable habitat for protected species. During field reconnaissance, S&ME personnel integrated the information obtained from this supporting documentation with field evaluation for the presence of protected species or potential protected species habitat.

4.0 SUMMARY AND CONCLUSIONS

Based on the literature review, habitat assessment, and pedestrian field review of the site, it is our opinion that future development of the subject property will have no effect on federally listed protected species for Marion County.

5.0 CLOSURE

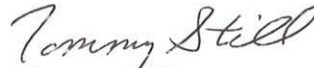
S&ME appreciates the opportunity to be of service to you by performing this Protected Species Assessment for the site. Please contact us at (843) 347-7800, with questions regarding this report, or if you require additional information.

Sincerely,

S&ME, Inc.

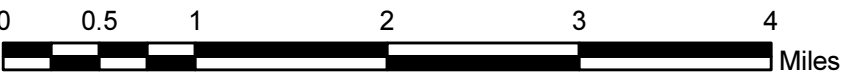
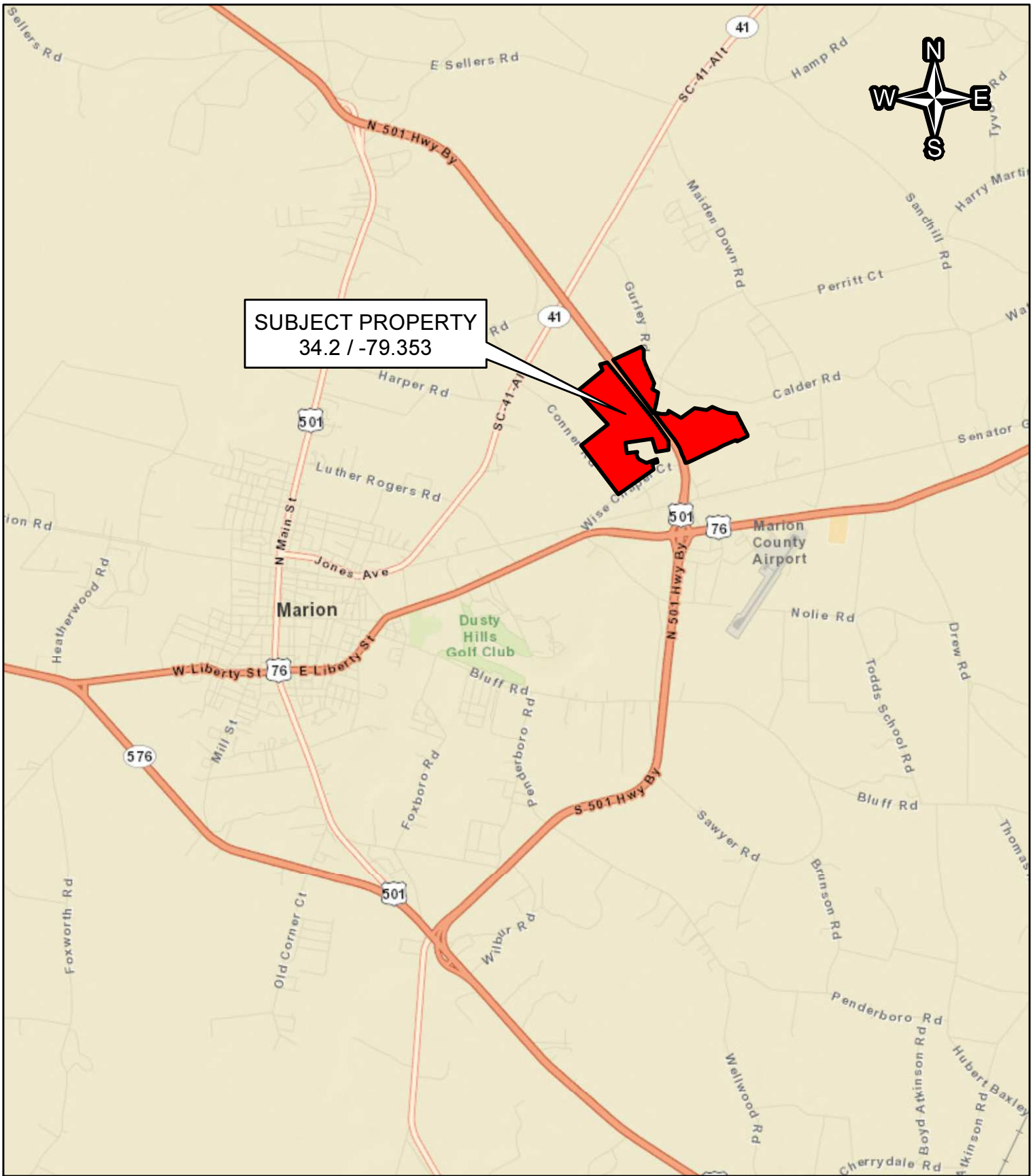


Charles Oates
Department Manager



Thomas Still co
Branch Manager

Attachments: **Figure 1:** Site Vicinity Map.
Figure 2: Site Topographic Map.
Figure 3: Site Aerial Photograph.
Figure 4: Site Soil Survey Map.
USF&WS South Carolina List of Endangered, Threatened and Candidate Species list, dated March 2010.
USF&WS concurrence letter (FWS Log No. 2006-TA-0059), dated November 1, 2005



SCALE:	1"= 1 MILE
SOURCE:	ESRI
SOURCE DATE:	2010
DATE:	MARCH 2012



WWW.SMEINC.COM

**SITE VICINITY MAP
MARION COUNTY
INDUSTRIAL PARK SITE
MARION COUNTY, SC**

S & ME PROJECT # 1634-12-075

FIGURE #

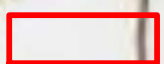
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Wise
Chapel

Smith

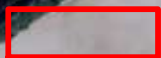
LEGEND



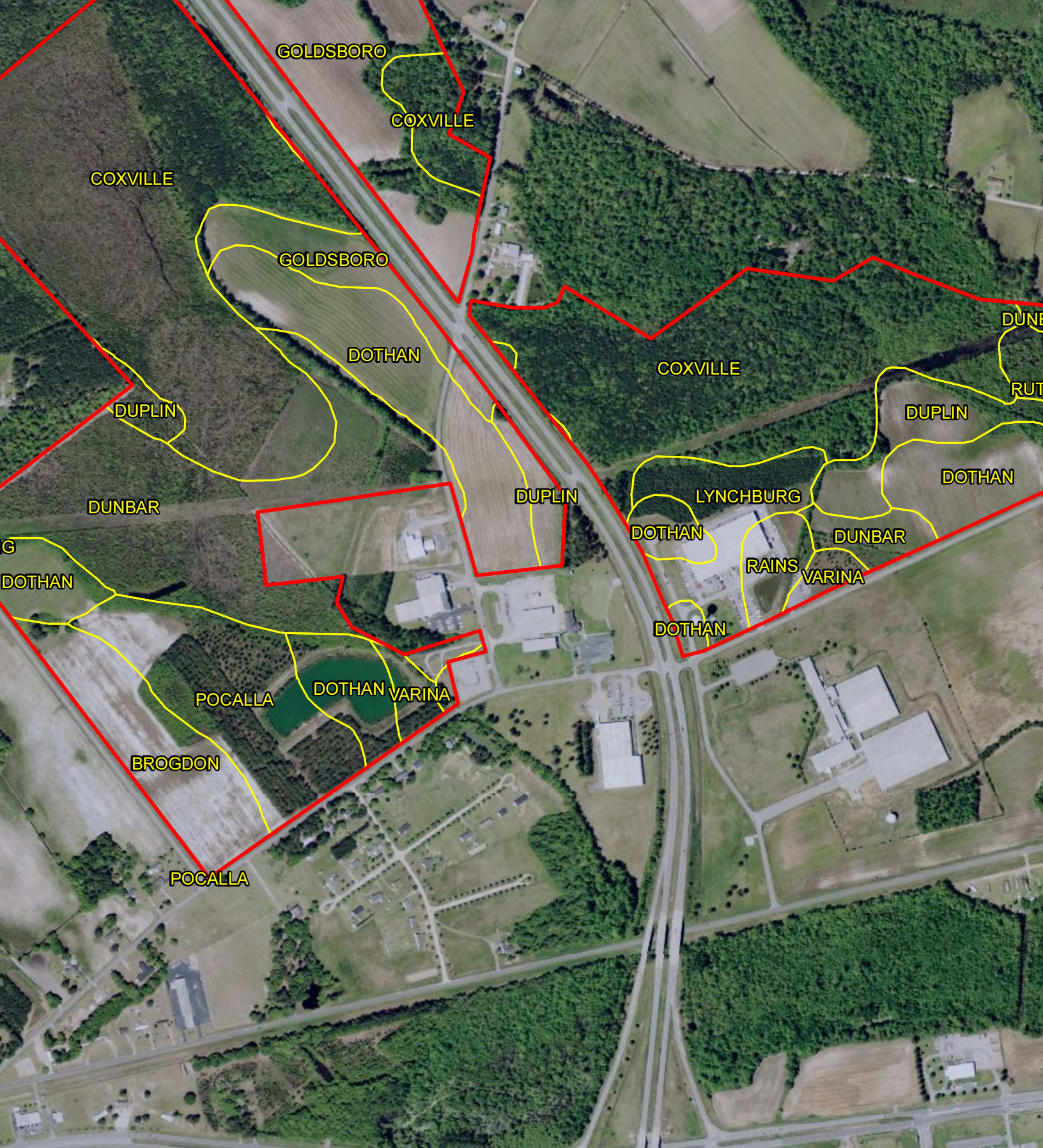
TRACT BOUNDARY



LEGEND



TRACT BOUNDARY



LEGEND



TRACT BOUNDARY



USDA/SCS SOILS DATA (1974)
OBTAINED FROM SCDNR GIS DEPT.

**South Carolina List of Endangered, Threatened and Candidate Species
March 2010**

E	Federally endangered
T	Federally threatened
P	Proposed in the Federal Register
CH	Critical Habitat
C	The U.S. Fish and Wildlife Service or the National Marine Fisheries Service has on file sufficient information on biological vulnerability and threat(s) to support proposals to list these species
S/A	Federally protected due to similarity of appearance to a listed species
*	Contact the National Marine Fisheries Service for more information on this species
**	The U.S. Fish and Wildlife Service and the National Marine Fisheries Service share jurisdiction of this species
BGEPA	Federally protected under the Bald and Golden Eagle Protection Act

These lists should be used only as a guideline, not as the final authority. The lists include known occurrences and areas where the species has a high possibility of occurring. Records are updated continually and may be different from the following. For a list of state endangered, threatened, and species of concern go to <http://www.dnr.sc.gov/species/index.html>.

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Abbeville	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E
	Georgia aster	<i>Aster georgianus</i>	C
Aiken	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Piedmont bishop-weed	<i>Ptilimnium nodosum</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Relict trillium	<i>Trillium reliquum</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	Smooth coneflower	<i>Echinacea laevigata</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Allendale	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	Smooth coneflower	<i>Echinacea laevigata</i>	E
	Wood stork	<i>Mycteria americana</i>	E

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Anderson	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Smooth coneflower	<i>Echinacea laevigata</i>	E
Bamberg	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Barnwell	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Piedmont bishop-weed	<i>Ptilimnium nodosum</i>	E
	Pondberry	<i>Lindera melissifolia</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	Smooth coneflower	<i>Echinacea laevigata</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Beaufort	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Finback whale	<i>Balaenoptera physalus*</i>	E
	Frosted flatwoods salamander	<i>Ambystoma cingulatum</i>	T
	Green sea turtle	<i>Chelonia mydas**</i>	E
	Humpback whale	<i>Megaptera novaengliae*</i>	E
	Kemp's ridley sea turtle	<i>Lepidochelys kempii**</i>	E
	Leatherback sea turtle	<i>Dermochelys coriacea**</i>	E
	Loggerhead sea turtle	<i>Caretta caretta**</i>	T
	Piping plover	<i>Charadrius melodus</i>	T, CH
	Pondberry	<i>Lindera melissifolia</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Red knot	<i>Calidris canutus rufa</i>	C
	Right whale	<i>Balaena glacialis*</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	West Indian manatee	<i>Trichechus manatus</i>	E
Wood stork	<i>Mycteria americana</i>	E	

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Berkeley	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Frosted flatwoods salamander	<i>Ambystoma cingulatum</i>	T
	Pondberry	<i>Lindera melissifolia</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	West Indian manatee	<i>Trichechus manatus</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Calhoun	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
Charleston	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Finback whale	<i>Balaenoptera physalus*</i>	E
	Frosted flatwoods salamander	<i>Ambystoma cingulatum</i>	T
	Green sea turtle	<i>Chelonia mydas**</i>	E
	Humpback whale	<i>Megaptera novaengliae*</i>	E
	Kemp's ridley sea turtle	<i>Lepidochelys kempii**</i>	E
	Leatherback sea turtle	<i>Dermochelys coriacea**</i>	E
	Loggerhead sea turtle	<i>Caretta caretta**</i>	T
	Piping plover	<i>Charadrius melodus</i>	T, CH
	Pondberry	<i>Lindera melissifolia</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Red knot	<i>Calidris canutus rufa</i>	C
	Right whale	<i>Balaena glacialis*</i>	E
	Seabeach amaranth	<i>Amaranthus pumilus</i>	T
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
West Indian manatee	<i>Trichechus manatus</i>	E	
	Wood stork	<i>Mycteria americana</i>	E
Cherokee	Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
	Georgia aster	<i>Aster georgianus</i>	C

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Chester	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E
	Georgia aster	<i>Aster georgianus</i>	C
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Chesterfield	Carolina heelsplitter	<i>Lasmigona decorata</i>	E, CH
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
Clarendon	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
Colleton	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Finback whale	<i>Balaenoptera physalus*</i>	E
	Frosted flatwoods salamander	<i>Ambystoma cingulatum</i>	T
	Green sea turtle	<i>Chelonia mydas**</i>	E
	Humpback whale	<i>Megaptera novaengliae*</i>	E
	Kemp's ridley sea turtle	<i>Lepidochelys kempii**</i>	E
	Leatherback sea turtle	<i>Dermochelys coriacea**</i>	E
	Loggerhead sea turtle	<i>Caretta caretta**</i>	T
	Piping plover	<i>Charadrius melodus</i>	T, CH
	Pondberry	<i>Lindera melissifolia</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Red knot	<i>Calidris canutus rufa</i>	C
	Right whale	<i>Balaena glacialis*</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
West Indian manatee	<i>Trichechus manatus</i>	E	
Wood stork	<i>Mycteria americana</i>	E	
Darlington	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Darlington Continued	Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
Dillon	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
Dorchester	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Bog asphodel	<i>Narthecium americanum</i>	C
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Pondberry	<i>Lindera melissifolia</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
	Wood stork	<i>Mycteria americana</i>	E
Edgefield	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E, CH
	Georgia aster	<i>Aster georgianus</i>	C
	Miccosukee gooseberry	<i>Ribes echinellum</i>	T
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Relict trillium	<i>Trillium reliquum</i>	E
Fairfield	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E
	Georgia aster	<i>Aster georgianus</i>	C
Florence	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
Georgetown	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Finback whale	<i>Balaenoptera physalus</i> *	E
	Green sea turtle**	<i>Chelonia mydas</i> **	T

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Georgetown Continued	Humpback whale	<i>Megaptera novaengliae</i> *	E
	Kemp's ridley sea turtle**	<i>Lepidochelys kempii</i> **	E
	Leatherback sea turtle**	<i>Dermochelys coriacea</i> **	E
	Loggerhead sea turtle**	<i>Caretta caretta</i> **	T
	Piping plover	<i>Charadrius melodus</i>	T, CH
	Pondberry	<i>Lindera melissifolia</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Seabeach amaranth	<i>Amaranthus pumilus</i>	T
	Right whale	<i>Balaena glacialis</i> *	E
	Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
	West Indian manatee	<i>Trichechus manatus</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Greenville	Bog turtle	<i>Clemmys muhlenbergii</i>	T S/A
	Bunched arrowhead	<i>Sagittaria fasciculata</i>	E
	Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
	Mountain sweet pitcher-plant	<i>Sarracenia rubra ssp. jonesii</i>	E
	Rock gnome lichen	<i>Gymnoderma lineare</i>	E
	Small whorled pogonia	<i>Isotria medeoloides</i>	T
	Swamp Pink	<i>Helonias bullata</i>	T
	White irisette	<i>Sisyrinchium dichotomum</i>	E
	White fringeless orchid	<i>Platanthera integrilabia</i>	C
Greenwood	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E, CH
Hampton	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
	Wood stork	<i>Mycteria americana</i>	E
Horry	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Finback whale	<i>Balaenoptera physalus</i> *	E
	Green sea turtle	<i>Chelonia mydas</i> **	E
	Humpback whale	<i>Megaptera novaengliae</i> *	E
	Kemp's ridley sea turtle	<i>Lepidochelys kempii</i> **	E

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Horry Continued	Leatherback sea turtle	<i>Dermochelys coriacea</i> **	E
	Loggerhead sea turtle	<i>Caretta caretta</i> **	T
	Piping plover	<i>Charadrius melodus</i>	T, CH
	Pondberry	<i>Lindera melissifolia</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Red knot	<i>Calidris canutus rufa</i>	C
	Right whale	<i>Balaena glacialis</i> *	E
	Seabeach amaranth	<i>Amaranthus pumilus</i>	T
	Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
	West Indian manatee	<i>Trichechus manatus</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Jasper	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Finback whale	<i>Balaenoptera physalus</i> *	E
	Frosted flatwoods salamander	<i>Ambystoma cingulatum</i>	T
	Green sea turtle	<i>Chelonia mydas</i> **	E
	Humpback whale	<i>Megaptera novaengliae</i> *	E
	Kemp's ridley sea turtle	<i>Lepidochelys kempii</i> **	E
	Leatherback sea turtle	<i>Dermochelys coriacea</i> **	E
	Loggerhead sea turtle	<i>Caretta caretta</i> **	T
	Piping plover	<i>Charadrius melodus</i>	T, CH
	Pondberry	<i>Lindera melissifolia</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Red knot	<i>Calidris canutus rufa</i>	C
	Right whale	<i>Balaena glacialis</i> *	E
	Shortnose sturgeon	<i>Acipenser brevirostrum</i> *	E
	West Indian manatee	<i>Trichechus manatus</i>	E
Wood stork	<i>Mycteria americana</i>	E	
Kershaw	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E, CH
	Georgia aster	<i>Aster georgianus</i>	C
	Michaux's sumac	<i>Rhus michauxii</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Lancaster	Black-spored quillwort	<i>Isoetes melanospora</i>	E
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E, CH
	Little amphianthus	<i>Amphianthus pusillus</i>	T
	Schweinitz's sunflower	<i>Helianthus schweinitzii</i>	E
	Smooth coneflower	<i>Echinacea laevigata</i>	E
Laurens	Carolina heelsplitter	<i>Lasmigona decorata</i>	E
	Georgia aster	<i>Aster georganus</i>	C
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Lee	American chaffseed	<i>Schwalbea americana</i>	E
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Lexington	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	Smooth coneflower	<i>Echinacea laevigata</i>	E
Marion	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyii</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Marlboro	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
McCormick	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E, CH
	Georgia aster	<i>Aster georgianus</i>	C
	Miccosukee gooseberry	<i>Ribes echinellum</i>	T
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Newberry	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Oconee	Georgia aster	<i>Aster georgianus</i>	C
	Persistent trillium	<i>Trillium persistens</i>	E
	Small whorled pogonia	<i>Isotria medeoloides</i>	T
	Smooth coneflower	<i>Echinacea laevigata</i>	E
Pickens	Bog turtle	<i>Clemmys muhlenbergii</i>	T S/A
	Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
	Georgia aster	<i>Aster georgianus</i>	C
	Mountain sweet pitcher-plant	<i>Sarracenia rubra ssp. jonesii</i>	E
	Smooth coneflower	<i>Echinacea laevigata</i>	E
Richland	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Georgia aster	<i>Aster georgianus</i>	C
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Rough-leaved loosestrife	<i>Lysimachia asperulaefolia</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	Smooth coneflower	<i>Echinacea laevigata</i>	E
	Wood stork	<i>Mycteria americana</i>	E
Saluda	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E
	Little amphianthus	<i>Amphianthus pusillus</i>	T
	Piedmont bishop-weed	<i>Ptilimnium nodosum</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
Spartanburg	Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
Sumter	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
Union	Georgia aster	<i>Aster georgianus</i>	C
Williamsburg	American chaffseed	<i>Schwalbea americana</i>	E
	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA

<u>COUNTY</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
Williamsburg Continued	Canby's dropwort	<i>Oxypolis canbyi</i>	E
	Red-cockaded woodpecker	<i>Picoides borealis</i>	E
	Shortnose sturgeon	<i>Acipenser brevirostrum*</i>	E
	Wood stork	<i>Mycteria americana</i>	E
York	Bald eagle	<i>Haliaeetus leucocephalus</i>	BGEPA
	Carolina heelsplitter	<i>Lasmigona decorata</i>	E
	Dwarf-flowered heartleaf	<i>Hexastylis naniflora</i>	T
	Georgia aster	<i>Aster georgianus</i>	C
	Little amphianthus	<i>Amphianthus pusillus</i>	T
	Schweinitz' sunflower	<i>Helianthus schweinitzii</i>	E



United States Department of the Interior

FISH AND WILDLIFE SERVICE
176 Croghan Spur Road, Suite 200
Charleston, South Carolina 29407

November 1, 2005

Mr. Charles Oates, Jr.
Natural Resources Project Manager
S&ME, Inc.
231 Labonte Street
Conway, SC 29526

Re: Marion County Industrial Park Site
S&ME Project No. 1614-05-294
Marion County
FWS Log No. 2006-TA-0059

Dear Mr. Oates:

The U.S. Fish and Wildlife Service (Service) has reviewed your October 18, 2005, letter and the endangered and threatened species survey for the above-referenced project and offers the following comments. The survey area is located north of the intersection of U.S. Highway 501 and U.S Highway 76 approximately three mile northeast of Marion, South Carolina. In the future, the site will be developed with industrial or light industrial facilities. The following comments are provided in accordance with the Fish and Wildlife Coordination Act, as amended (16 U.S.C. 661-667e), and section 7 of the Endangered Species Act (Act), as amended (16 U.S.C. 1531-1543).

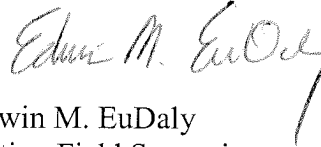
Based on a review of our records and your description of the site, we believe it is unlikely that any federally endangered or threatened species occur there. We recommend that project plans be developed to avoid impacting forested swampland areas on the eastern side of the project area and reserve the right to review any required federal or state permits at the time of public notice issuance. All unavoidable impacts including temporary ones must be mitigated for under the revised Department of the Army Corps of Engineers Regulatory Division Standard Operating Procedure (RD-SOP-02-01). The U.S. Army Corps of Engineers should be contacted to assist you in determining where wetlands are present or if a permit is required for this activity.

We believe that the requirements of Section 7 of the Endangered Species Act have been satisfied. However, obligations under Section 7 of the Act must be reconsidered if (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered, (2) this action is subsequently modified in a manner which

was not considered in this assessment, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action.

If you should have any questions, please contact Tera Baird at (843)727-4707, ext. 225 and reference FWS Log No. 2006-TA-0059.

Sincerely,

A handwritten signature in cursive script that reads "Edwin M. EuDaly". The signature is written in dark ink and is positioned above the printed name.

Edwin M. EuDaly
Acting Field Supervisor

EME/TKB