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

Attachment 22

Protected Species Assessment for Epps No. 1 Industrial Site



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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

January 12, 2011



Re: Pro

Protected Species Assessment Epps #1 Industrial Park Site Williamsburg County, SC S&ME Project No. 1634-10-283 FWS Log No. 2011-TA-0086

Thank you for your December 7, 2010, correspondence to the U.S. Fish and Wildlife Service (Service) regarding a protected species assessment for the property associated with the above-referenced project located in Williamsburg, South Carolina. Based on our review of the information received, the Service believes that development of a project at the proposed location will not result in "take" as defined under section 9 of the Endangered Species Act (Act).

Please note that obligations under the Act must be reconsidered if: (1) new information reveals impacts of this identified action may affect any 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 designated that may be affected by the identified action.

Please contact the South Carolina Department of Natural Resources regarding potential impacts to State protected species. If the proposed project will impact wetlands, please contact the U.S. Army Corps of Engineers, Charleston District.

If you have any questions regarding the Service's position in this matter, please contact Mr. Mark Leao at (843)727- 4707, ext. 228 and reference FWS Log No. 2011-TA-0086.

Sincerely.

Jay B. Herrington



December 7, 2010

Reference:

Protected Species Assessment

Epps #1 Industrial Park Site

Williamsburg County, South Carolina S&ME Project No. 1634-10-283

S&ME, Inc. (S&ME) is pleased to submit this report detailing our Protected Species Assessment for the above-referenced site located in Williamsburg County, South Carolina. This work was performed in accordance with authorized S&ME Proposal No. 1634-0016-10, dated January 18, 2010. 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, in preparation for proposed future industrial development.

The subject property totals approximately 73 acres, and is located west of and adjacent to U.S. Highway 52, in Williamsburg County, South Carolina (see Figure 1). The site is identified on a portion of the USGS 7.5-minute Kingstree, S.C. topographic quadrangle map, dated 1990 (Figure 2).

1.0 SITE/HABITAT DESCRIPTIONS

The site is located in Williamsburg County within the Coastal Plain Physiographic Province of South Carolina. The surrounding properties consist of industrial and commercial properties, as well as agricultural and forestland properties. The subject property is comprised of approximately 15% dense hardwood bottomland wetlands and 85% active agricultural fields (see Figure 3). The wetlands on the subject property have been delineated in the field, and approved by the U.S. Army Corps of Engineers under SAC 2008-02266-4JJ, Dated December 15, 2009.

2.0 PROTECTED SPECIES

The U.S. Fish & Wildlife Service (USF&WS) South Carolina List of Endangered, Threatened and Candidate Species (dated March 2010) and the South Carolina Department of Natural Resources Heritage Trust Program (SCDNR HTP) Rare, Threatened & Endangered Species Inventory Species Inventory, Kingstree Quadrangle Map (updated on January 17, 2006) were consulted regarding current listed federally protected species within Williamsburg 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 USF&WS database has six federally protected species listed for Williamsburg County, South Carolina. These species include:

Common Name	Scientific Name	Status*
Bald Eagle	Haliaeetus leucocephalus	BGEPA
Red-cockaded woodpecker	Picoides borealis	E
Wood stork	Mycteria Americana	E
Shortnose sturgeon	Acipenser brevirostrum	E
American chaffseed	Schwalbea Americana	E
Canby's dropwort	Oxypolis canbyi	E

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

A pedestrian field review was performed for protected species and suitable habitats to support protected species on December 3, 2010, by Mr. Charles Oates, of S&ME. Charles Oates has over ten 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

American chaffseed typically grows in sandy, acidic, seasonally moist to dry soils. It is generally found in habitats described as open, moist pine flatwoods, pine/wiregrass savannas, and between peaty wetlands and xeric sandy soils. These habitats were historically maintained by wildfires.

Canby's dropwort is typically found in shallow ponds in pinelands, shallow grass and sedge sloughs, and peat-muck swamps.

During the field reconnaissance, suitable habitat to support either of these species was not observed on or adjacent to the subject property.

Vertebrates: No Effect

Birds:

Even though the bald eagle (Haliaeetus leucocephalus) was recently taken off of the threatened species list, it is still 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. There are no large open bodies of water on or directly adjacent to the subject property, and the site does not contain suitable habitat the support this species.

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 protected species of reptile or amphibians listed in Williamsburg 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 does not contain waters that would be considered suitable habitat for the shortnose sturgeon.

Mammals:

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

Invertebrate: No Effect

Freshwater Mussels:

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

3.0 METHODOLOGY

S&ME reviewed the SCDNR HTP and the USF&WS databases for records of federally protected species known to occur within Williamsburg 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 Kingstree, S.C. Topographic Quadrangle 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 development of the subject property will have no effect on federally listed protected species for Williamsburg 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.

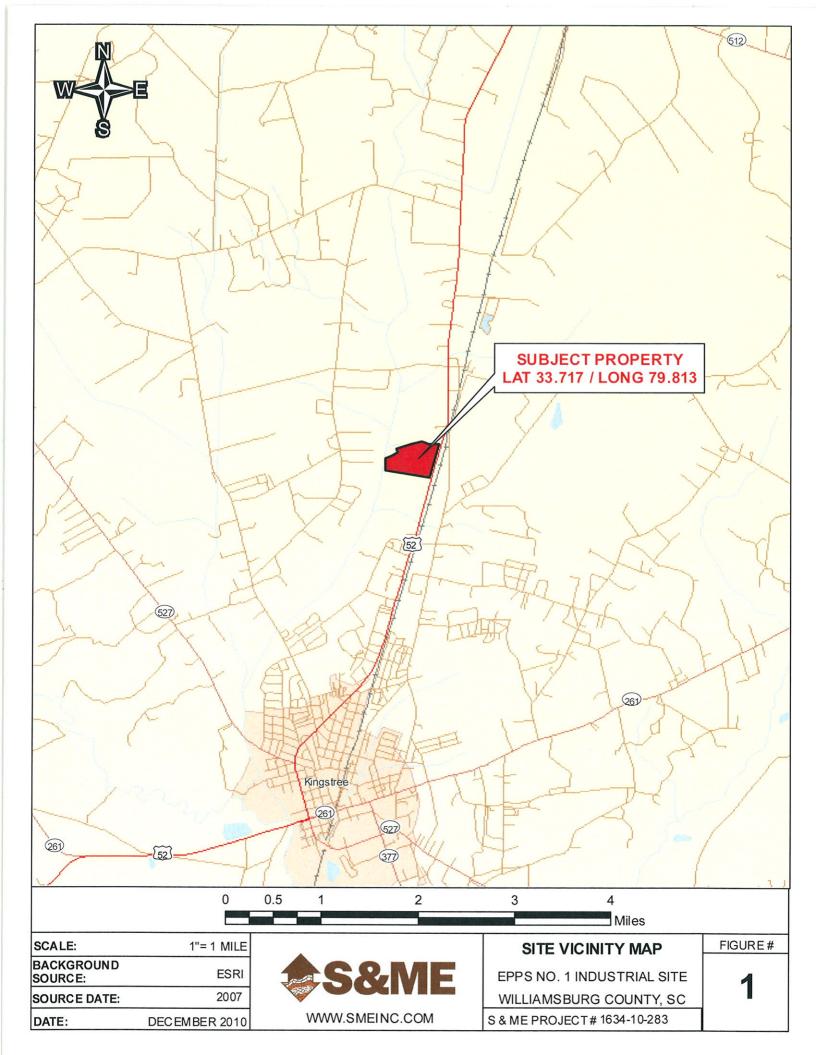
Figure 3: Site Aerial Photograph with Approximate Location of the

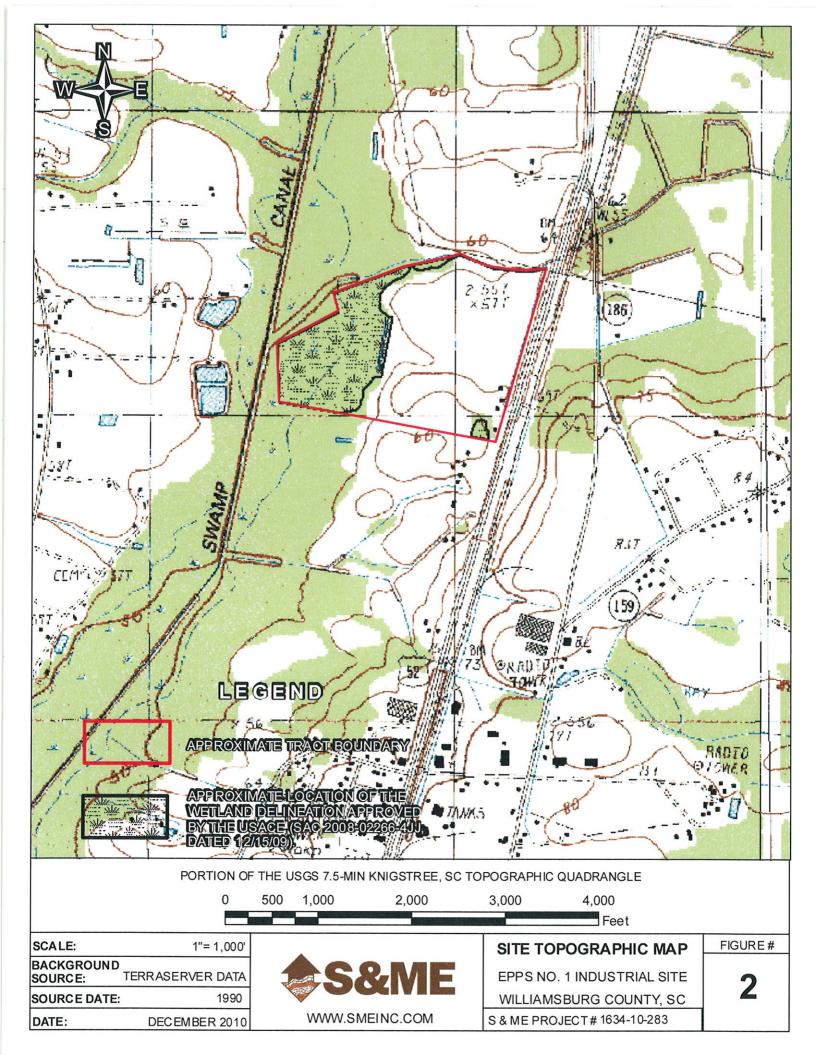
Wetlands Delineated by S&ME.

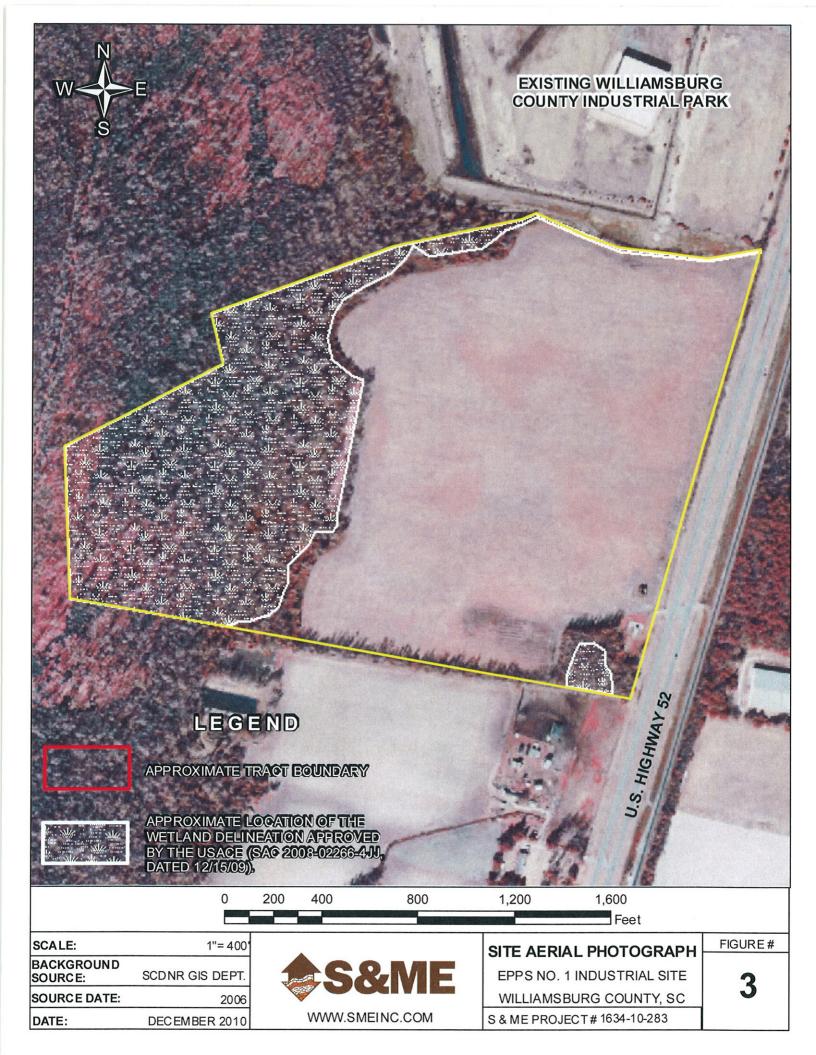
Figure 4: Site Soils Map.

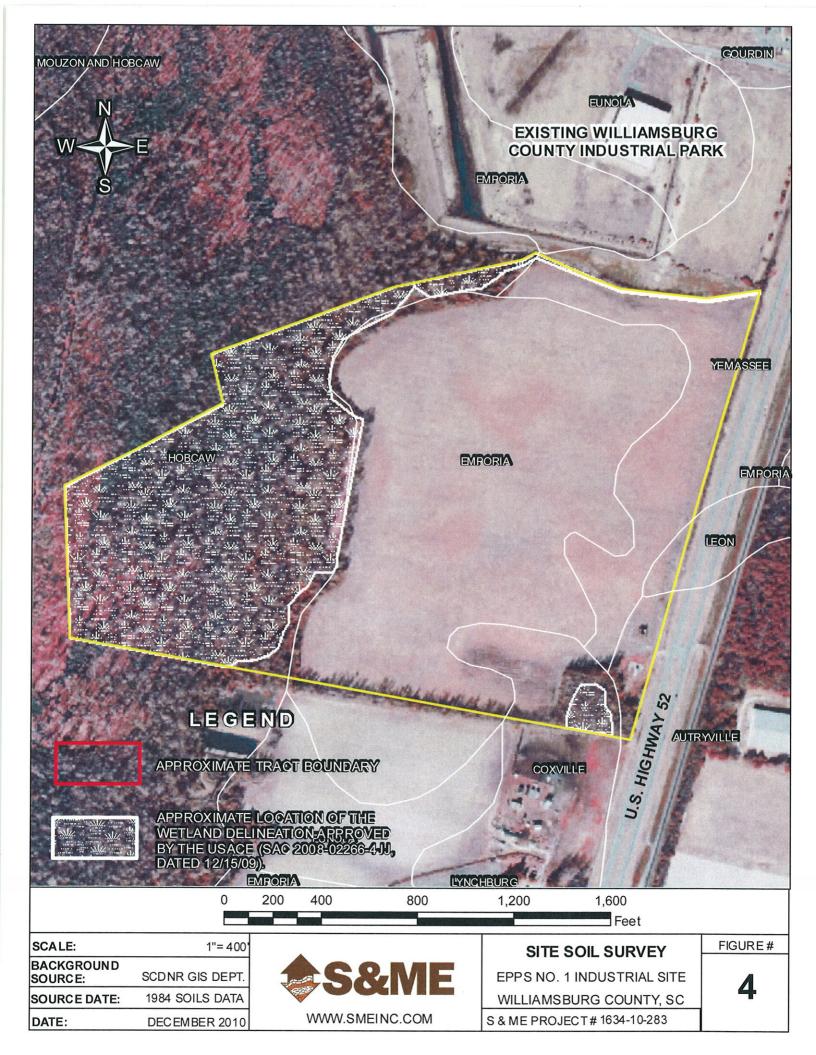
USF&WS South Carolina List of Endangered, Threatened and Candidate

Species list, dated March 2010.









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

Federally endangered
Federally threatened
Proposed in the Federal Register
Critical Habitat
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
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
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.

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

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

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

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

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

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

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

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

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

COUNTY	COMMON NAME	SCIENTIFIC NAME	STATUS
Williamsburg Continued	Canby's dropwort Red-cockaded woodpecker Shortnose sturgeon Wood stork	Oxypolis canbyi Picoides borealis Acipenser brevirostrum* Mycteria americana	E 20000 E E E
York	Bald eagle Carolina heelsplitter Dwarf-flowered heartleaf Georgia aster Little amphianthus Schweinitz' sunflower	Haliaeetus leucocephalus Lasmigona decorata Hexastylis naniflora Aster georgianus Amphianthus pusillus Helianthus schweinitzii	BGEPA E T C T E

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

Attachment 22

Protected Species Assessment for Tracts 8-10 and 13 of the Williamsburg Cooperative Commerce Centre



United States Department of the Interior

FISH & WILDLIFE SERVICE

FISH AND WILDLIFE SERVICE

176 Croghan Spur Road, Suite 200 Charleston, South Carolina 29407 March 14, 2011

Mr. Charles Oates S&ME, Inc. 1330 Highway 501 Business Conway, SC 29526

Re:

Protected Species Assessment

Epps #1 Industrial Park Additional Land Project

Williamsburg County, South Carolina

FWS Log No. 2011-TA-0159

Dear Mr. Oates:

The U.S. Fish and Wildlife Service (Service) has reviewed your submitted plans for the proposed project. Based on the information received and our subsequent review, it is the Service's opinion that the proposed project will not affect resources currently protected by the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.)(Act).

Please note that obligations under the Act must be reconsidered if (1) new information reveals impacts of this identified action may affect any 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 designated that may be affected by the identified action.

Please contact the South Carolina Department of Natural Resources regarding potential impacts to state protected species. If the proposed project will impact wetlands, please contact the U.S. Army Corps of Engineers, Charleston District. If you have any questions, please contact Ms. Morgan Wolf at (843)727-4707, ext. 219 and reference FWS Log No. 2011-TA-0159.

Sincerely

Jay B. Herrington
Field Supervisor

JBH/MKW nodest replaced with a control of the control of the control of the first service to the second of the first service.

TAKE PRIDE

The U.S. Fish and Whillish Service (Survice) are sevinced your submitted pleas for five evoposed



March 10, 2011

Alliance Consulting Engineers Post Office Box 8147 Columbia, South Carolina 29202-8147

Attention:

Mr. Deepal Eliatamby, P.E.

Reference:

Protected Species Assessment

Epps #1 Industrial Park Additional Land Project

Williamsburg County, South Carolina S&ME Project No. 1634-11-040

Dear Mr. Eliatamby:

S&ME, Inc. (S&ME) is pleased to submit this report detailing our Protected Species Assessment for the above-referenced site located in Williamsburg County, South Carolina. This work was performed in accordance with authorized S&ME Proposal No. 1634-0068-11, dated February 15, 2011. 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, in preparation for proposed future industrial development.

The subject property is comprised of two parcels of land totaling approximately 40 acres, and is located west of and adjacent to U.S. Highway 52, in Williamsburg County, South Carolina (see Figure 1). This property is north of and adjacent to the Epps #1 Industrial Site, for which the U.S. Fish & Wildlife Service concurred that development of the site would not result in a "take" as defined under Section 9 of the Endangered Species Act (FWS Log No. 2011-TA-0086). The site is identified on a portion of the USGS 7.5-minute Kingstree, S.C. topographic quadrangle map, dated 1990 (Figure 2).

1.0 SITE/HABITAT DESCRIPTIONS

The site is located in Williamsburg County within the Coastal Plain Physiographic Province of South Carolina. The surrounding properties consist of industrial and commercial properties, as well as agricultural and forestland properties. The subject property is comprised of cleared land within an existing industrial area.

2.0 PROTECTED SPECIES

The U.S. Fish & Wildlife Service (USF&WS) South Carolina List of Endangered, Threatened and Candidate Species (dated March 2010) and the South Carolina Department of Natural Resources Heritage Trust Program (SCDNR HTP) Rare, Threatened & Endangered Species Inventory Species Inventory, Kingstree Quadrangle Map (updated on January 17, 2006) were consulted regarding currently listed federally protected species within Williamsburg 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 USF&WS database has six federally protected species listed for Williamsburg County, South Carolina. These species include:

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Bald Eagle	Haliaeetus leucocephalus	BGEPA
Red-cockaded woodpecker	Picoides borealis	Е
Wood stork	Mycteria Americana	Е
Shortnose sturgeon	Acipenser brevirostrum	E
American chaffseed	Schwalbea Americana	E
Canby's dropwort	Oxypolis canbyi	Е

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

A pedestrian field review was performed for protected species and suitable habitats to support protected species on February 21, 2011, by Mr. Charles Oates, of S&ME. Charles Oates has over ten 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

American chaffseed typically grows in sandy, acidic, seasonally moist to dry soils. It is generally found in habitats described as open, moist pine flatwoods, pine/wiregrass savannas, and between peaty wetlands and xeric sandy soils. These habitats were historically maintained by wildfires.

Canby's dropwort is typically found in shallow ponds in pinelands, shallow grass and sedge sloughs, and peat-muck swamps.

During the field reconnaissance, suitable habitat to support either of these species was not observed on or adjacent to the subject property.

Vertebrates: No Effect

Birds:

Even though the bald eagle (*Haliaeetus leucocephalus*) was recently taken off of the threatened species list, it is still 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. There are no large open bodies of water on or directly adjacent to the subject property, and the site does not contain suitable habitat the support to species.

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 protected species of reptile or amphibians listed in Williamsburg 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 does not contain waters that would be considered suitable habitat for the shortnose sturgeon.

Mammals:

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

Invertebrate:

No Effect

Freshwater Mussels:

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

3.0 **METHODOLOGY**

S&ME reviewed the SCDNR HTP and the USF&WS databases for records of federally protected species known to occur within Williamsburg 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 Kingstree, S.C. Topographic Quadrangle 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 development of the subject property will have no effect on federally listed protected species for Williamsburg 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

Jonny Still
Thomas Still @

Branch Manager

Attachments: Figure 1: Site Vicinity Map.

Figure 2: Site Topographic Map. Figure 3: Site Aerial Photograph.

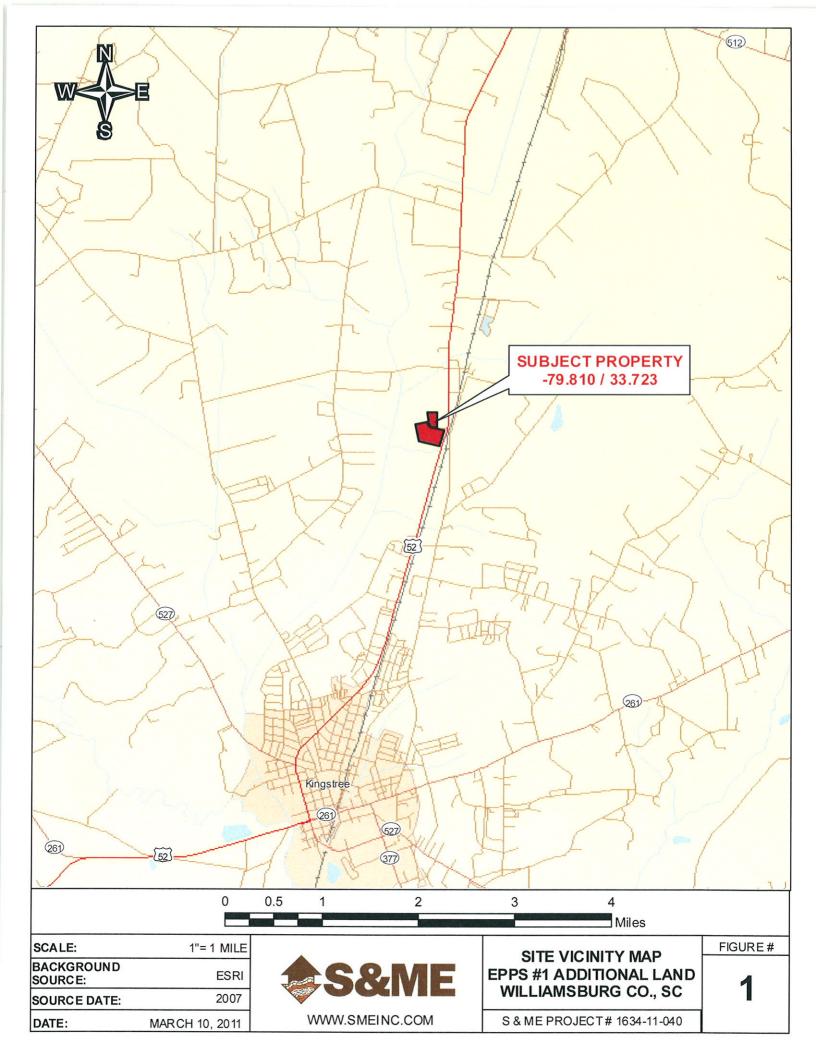
Figure 4: Site Soil Survey Map.

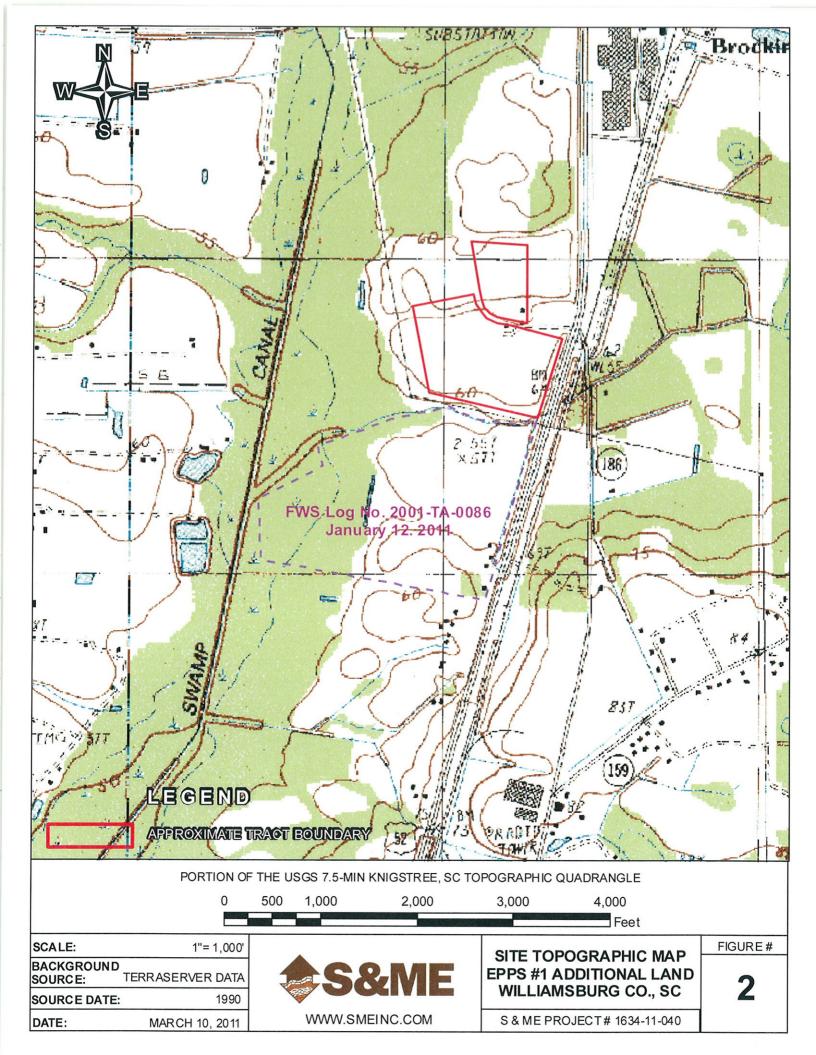
USF&WS Letter FWS 2011-TA-0086, Dated January 12, 2011 (adjacent

property)

USF&WS South Carolina List of Endangered, Threatened and Candidate

Species list, dated March 2010.







 SCALE:
 1"= 600°

 BACKGROUND SOURCE:
 SCDNR GIS DEPT.

 SOURCE DATE:
 2006

 DATE:
 MARCH 10, 2011



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EPPS #1 ADDITIONAL LAND WILLIAMSBURG CO., SC

S & ME PROJECT# 1634-11-040

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