

Draft Environmental Technical Documents (as-of December 21, 2022)

- 1. USFWS Biological Assessment**
- 2. Jurisdictional Determination Figures**
- 3. Phase I Environmental Site Assessment**
- 4. Asbestos and Lead-based Paint Surveys**
- 5. Cultural Resources Report**

Attachment 1

USFWS Biological Assessment



South Carolina
Department of Transportation

November 28, 2022

Melanie Olds
US Fish and Wildlife Service
South Atlantic-Gulf Region
South Carolina Ecological Services
176 Croghan Spur Road, Suite 200
Charleston, SC 29407

Re: 2022-0089182 Section 7 USFWS Consultation Request for I-26 at I-95
Interchange Improvements, Orangeburg & Dorchester Counties, South Carolina;
SCDOT PIN P038677

Dear Ms. Olds,

On behalf of The South Carolina Department of Transportation (SCDOT) and the Federal Highway Administration (FHWA), please find an informal consultation request for species under US Fish and Wildlife Services (USFW) jurisdiction in compliance with Section 7 of the Endangered Species Act (ESA) for the above referenced project. A Non-Programmatic Categorical Exclusion is currently being prepared for this project.

This submittal is being provided directly to you for your review and comment. Attached you should find a copy of the Biological Assessment documenting all federal and state threatened or endangered species with effect determinations based on possible construction activities and NLEB-IPAC results.

Please contact myself at 803-737-1326 or mcgoldriwr@scdot.org or Shane Belcher with FHWA with any questions or comments.

Sincerely,

Will McGoldrick
Alternative Project Delivery Env Program Mgr

KLM:wrm

Enclosures: Biological Assessment

cc: Shane Belcher, FHWA
Kally McCormick, CECS

File: ENV/Design-Build



I-26 AT I-95 INTERCHANGE IMPROVEMENT
BIOLOGICAL ASSESSMENT
FOR US FISH AND WILDLIFE SERVICE

P038677

DRAFT

Prepared For:



Prepared By:



Civil Engineering
Consulting Services, Inc.

November 22, 2022

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1. Project Overview

1.1 Federal Nexus

The purpose of this Biological Assessment (BA) is to address the effect of the I-26 at I-95 Interchange Improvements on U.S. Endangered Species Act (ESA) listed species, listed as endangered or threatened, or their designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (USFWS). Those species under the jurisdiction of the National Oceanic and Atmospheric Administration-National Marine Fisheries Service (NOAA-NMFS) include Atlantic sturgeon and shortnose sturgeon. There are no major waterways within the project study area, no suitable habitat, and no records of the Atlantic sturgeon or shortnose sturgeon present within the project boundaries.

The South Carolina Department of Transportation (SCDOT), on behalf of the Federal Highway Administration (FHWA), is pursuing informal consultation under Section 7 of the ESA on the impacts to species that will result from the proposed I-26 at I-95 interchange improvements project. Section 7 of the ESA assures that, through consultation with USFWS, federal actions do not jeopardize the continued existence of any threatened, endangered, or proposed species, or result in the destruction or adverse modification of critical habitat.

1.2 Project Description

The SCDOT proposes to improve the I-26 at I-95 interchange located in Orangeburg and Dorchester Counties (**Appendix A, Figure 1**). The purpose of this project is to improve mobility and operations at the system interchange of I-26 and I-95. Goals for the project include accommodating future capacity improvements of both I-26 and I-95 and accommodating lane reversal requirements in accordance with emergency management. The need for the improvements stems from operational issues including weaving movements from on and off ramp loop ramps resulting in rear-end and sideswipe crashes and travel delays due weaving and merging. The cloverleaf on and off loop ramps can result in increased congestion. The I-26 and I-95 interchange is listed as the third highest ranked rural interstate improvement project. Level of Service (LOS) is the term used to refer to automobile congestion and travel time delay. LOS A generally represents the best, free-flow operating conditions, and LOS F represents the worst operating conditions. Several of the ramps and loops at the interchange are operating at LOS F currently, and additional ramps and loops will operate at LOS D and F in the future if no improvements are made. This project would include a full interchange improvement to address the operational deficiencies of the current configuration. Improvements include ramp realignments and reconfigurations to improve vehicular and freight mobility from interstate to interstate. Potential new overpass ramps

would allow improve traffic flow on I-26 and 16-foot full depth shoulder would be provided for evacuation purposes. These improvements would address merge and weave movements along I-26 eastbound/westbound and I-95 northbound/southbound.

1.3 Project Area and Setting

The project is located primarily in Orangeburg County, with a small section of the southeastern end of the project in Dorchester County. A project study area (PSA) has been established to encompass all potential impacts of the project (see **Appendix A, Figure 1**). The PSA encompasses an area approximately 482 acres in size, generally centered on the existing I-26 at I-95 interchange and adjacent side streets. A large portion of the land within this PSA is underdeveloped farmland and hunting land. One freshwater stream and numerous wetlands are present in the PSA, including forested wetlands, scrub-shrub wetlands, and emergent wetlands.

1.4 Consultation History

The USFWS South Carolina list of at-risk, candidate, endangered, and threatened species by county was reviewed for both Orangeburg and Dorchester Counties (**Appendix B**). A request was submitted through the USFWS Information, Planning, and Conservation (IPaC) online database for information pertaining to designated protected species critical habitats. USFWS provided a verification letter on September 27, 2022 related to the Programmatic Biological Opinion for the northern long-eared bat (*Myotis septentrionalis*) concluded that the project action may affect the northern long-eared bat; however, any take that may occur as a result of the action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). **See Appendix C.**

2. Federally Listed, Proposed, and At-Risk Species, Including Designated Critical Habitat

The PSA is located within the known or expected range of five species listed under the ESA within the jurisdiction of USFWS (Table 1). Two additional endangered species (shortnose sturgeon and Atlantic sturgeon) fall within the jurisdiction of NOAA-NMFS. There is no Critical Habitat within the PSA.

The term “Candidate” includes species under consideration for which there is sufficient information to support listing but development of a proposed listing regulation is precluded by other higher priority listing activities. There are two Candidate species considered in this project. “At-Risk Species” (ARS) is an informal term that refers to those species which may be in need of concentrated conservation actions, and have been petitioned for listing as threatened or endangered. There are seven At-Risk species

considered in this project. The USFWS designations of candidate and at-risk do not provide federal protection and require no Section 7 consultation under the ESA, however they are considered here for potential natural resources impacts. The bald eagle (*Haliaeetus leucocephalus*) is protected under the Bald and Golden Eagle Protection Act (BGEPA) and Migratory Bird Treaty Act (MBTA).

Table 1. Endangered, Threatened, At-Risk, and Candidate Species.

Species	USFWS County Known or Likely Occurrence	Federal Protection Status
Atlantic sturgeon (<i>Acipenser oxyrinchus oxyrinchus</i>)	Dorchester, Orangeburg	Endangered
Shortnose sturgeon (<i>Acipenser brevirostrum</i>)	Dorchester, Orangeburg	Endangered
Canby's dropwort (<i>Oxypolis canbyi</i>)	Orangeburg	Endangered
Pondberry (<i>Lindera melissifolia</i>)	Dorchester, Orangeburg	Endangered
American wood stork (<i>Mycteria americana</i>)	Dorchester, Orangeburg	Threatened
Red-cockaded woodpecker (<i>Picoides borealis</i>)	Dorchester, Orangeburg	Threatened
+Northern long-eared bat (<i>Myotis septentrionalis</i>)	Dorchester	Threatened
Monarch Butterfly (<i>Danaus plexippus</i>)	Dorchester, Orangeburg	Candidate
Gopher Tortoise (<i>Gopherus polyphemus</i>)	Dorchester	Candidate
++Tricolored bat (<i>Perimyotis subflavus</i>)	Dorchester, Orangeburg	At-Risk Species
Boykin's lobelia (<i>Lobelia boykinii</i>)	Orangeburg	At-Risk Species
Carolina-birds-in-a-nest (<i>Macbridea caroliniana</i>)	Orangeburg	At-Risk Species
Bog asphodel (<i>Narthecium Americanum</i>)	Dorchester	At-Risk Species
Gopher frog (<i>Lithobates captio</i>)	Dorchester, Orangeburg	At-Risk Species
Eastern diamondback rattlesnake (<i>Crotalus adamanteus</i>)	Dorchester, Orangeburg	At-Risk Species
Spotted turtle (<i>Dermochelys coriacea</i>)	Dorchester	At-Risk Species
Bald Eagle (<i>Haliaeetus leucocephalus</i>)*	Dorchester, Orangeburg	BGEPA

Table 1 Notes:

+ On March 22, 2022, the USFWS issued a public notice proposing to list the northern long-eared bat as endangered. The comment period ended on May 23, 2022 and a final decision is expected in November 2022.

++On September 13, 2022, the USFWS issued a public notice proposing to list the tricolored bat as endangered. The comment period ends on November 14, 2022 and a final decision is expected within 12 months or sooner.

At-Risk Species: Species that the USFWS has been petitioned to list and for which a positive 90-day finding has been issued (listing may be warranted); information is provided only for conservation actions as no Federal protections currently exist.

Candidate: USFWS has on file sufficient information on biological vulnerability and threat(s) to support proposals to list these species.

**BGEPA: Federally protected under the Bald and Golden Eagle Protection Act*

The following sections detail the seven threatened or endangered species within known listings or likely occurrences in Dorchester and Orangeburg Counties. The two candidate species of the counties are also considered below. Additionally, because of the pending potential future listing of the tricolored bat, this species is also included.

2.1 American wood stork

American wood storks are a threatened species under the ESA. They are the largest wading bird and only stork species that breeds in the United States. These birds are large, long legged with a head to tail length of up to 45 inches and a wingspan of up to 65 inches. Adult wood storks are white except for the primary and secondary wing feathers and the tail feathers, which are black with a greenish sheen. Adults also have an unfeathered head and neck with a long, thick black bill. The breeding range of the wood stork extends down the southeastern coast of the United States, including South Carolina. American wood storks are colonial nesters with colonies ranging from less than 12 to more than 500 in size. Nesting occurs in small to large trees typically on small islands surrounded by standing water, or in extensive forested and flooded wetlands. The species generally forages in water six to ten inches deep. They feed in freshwater marshes, narrow tidal creeks, or flooded tidal pools. Suitable foraging and nesting habitat exists within the forested wetlands and upland forests near open water located within the PSA including open ponds and wetlands. During surveys, a lone American wood stork was seen flying approximately 3 miles southeast of the I-26 at I-95 project. The closest known nesting population is approximately 23.7 miles southwest of the PSA. **There is suitable habitat present, but no active nesting rookeries or birds were found during surveys.**

2.2 Red-cockaded woodpecker

The Red-cockaded woodpecker is listed as endangered and is protected under the ESA. The red-cockaded woodpecker has a distinguishable back patterning barred with black and white horizontal stripes. They also have a black cap and nape that encircle large white cheek patches. Males of the species have a notable red streak on each side of their black cap called a cockade. Red-cockaded woodpeckers are rare forest birds native to the southeastern United States. These birds are non-migratory and territorial. They tend to live in family groups which include a breeding pair, their offspring, and helpers. They prefer to forage on pine trees with a strong preference to large trees. They are known to occasionally forage on hardwoods and even eat cornworms in cornfields. The nesting season for these birds is from April to June. The pine forests in and near the project site are frequently logged, resulting in relatively small, young growth trees. No longleaf pine is present. **Evidence of the Red-cockaded woodpecker was not noted within the PSA, no birds were detected during surveys, and suitable habitat is not present.**

2.3 Northern long-eared bat

On March 22, 2022, the USFWS issued a public notice proposing to list the northern long-eared bat as endangered. The comment period ended on May 23, 2022 and final decision is expected in November 2022. The northern long-eared bat is a threatened species that is a medium-sized and medium to dark brown on the back and tawny to pale-brown on the underside. The species is distinguished by its long ears. During the winter months, the northern long-eared bat can be found hibernating in caves and mines. They use areas in various sized caves or mines with constant temperatures, high humidity, and no air currents. During the summer, northern long-eared bats roost underneath bark and in cavities or in crevices of both live trees and dead trees. Individuals of the species have also been found rarely roosting in structures, like barns and sheds. Habitat conducive to seasonal occupation for northern long-eared bat is located within the PSA. The PSA contains potentially suitable summer roosting and foraging habitat for this species within forested areas. The preferred winter hibernation habitat for this species does not exist within the PSA or its immediate vicinity. As discussed in further detail in Section 2.5, a total of 20 bats (18 Rafinesque's big-eared bat and 2 unidentified bats) were found in box culverts in the project site during a day roost survey in September 2022. **While the forested areas onsite are considered suitable habitat, the narrow nature of these areas is a limiting factor for the suitability of this habitat. No northern long-eared bats were identified during field surveys and there are no known populations or hibernacula within the PSA.**

2.4 Tricolored bat

On September 13, 2022, the USFWS issued a public notice proposing to list the tricolored bat as endangered. The comment period ends on November 14, 2022 and a final decision is expected within 12 months or sooner. The tricolored bat is a small-sized bat weighing an average of 6 g (0.2 oz.). For their size they have large feet, 7.3-9.9 mm (0.29-0.39 in.). They are not as colorful as the term “tricolored” implies. Tri-color refers to the banding on the hairs; from the base to tip each hair appears dark, light and dark. Most pipistrelles are buff-yellowish but can appear brown. The radius bone visible through the skin appears pink. The face and ears also have a pinkish color. The tricolored bat is distributed throughout the state. These bats will use T-beam bridges, buildings, large culverts, mines, tunnels, caves, and hollow trees for roosts and have suitable habitat within the PSA. In winter these bats often use abandoned mines and caves, and they are abundant in the incomplete Blue Ridge Railroad tunnels. Although considered colonial bats, individuals are often not physically clumped together. While hibernating, tricolored bats hang singly but can be near conspecifics. Frequently they are covered in condensation while hibernating. During summer tricolored bats can be found under certain bridges and in buildings in the summer. In South Carolina, females often form small maternity colonies (3-5 individuals) in clusters of live or dead leaves in trees. Tricolored bats may switch roost sites in summer but their roosts are typically close together. There is a known colony of tricolored bats approximately 33 miles north from this project, along I-26. On this project, there are 4 large box culverts that serve as suitable habitat (**Appendix A, Figure 2**). While no tricolored bats were able to be positively identified during day roost surveys, a total of 20 bats were found within three box culverts in the PSA. Eighteen of these bats were identified as Rafinesque’s big-eared bat (*Corynorhinus rafinesquii*) (see Section 2.5 for additional information). Two individuals could not be identified to species; however, they were confirmed to *not* be Rafinesque’s big-eared bat. While the box culverts of this project are suitable habitat, existing overpasses or bridges within the PSA are too tall in height with high levels of sunlight present beneath the bridge to support roosting bats. Additionally, seams and gaps in the bridge that could support bats are not present. **In conclusion, there is potential for the tricolored bat to be present within the project site and suitable habitat is available.**

2.5 Rafinesque’s big-eared bat (State endangered only)

While not a federally protected species, Rafinesque’s big-eared bat is discussed here to provide clarity on bats that were identified within the PSA during field surveys. State of South Carolina endangered species are “wildlife whose prospects of survival or recruitment within the state are in jeopardy or are likely within the foreseeable future to become so” (South Carolina Code of Laws Section 50-15-10). State threatened species are “likely to become endangered and in need of management”. The Rafinesque’s big-eared bat

occurs in a variety of habitats within the southeastern United States and hibernate rather than migrate. Rafinesque's big-eared bats characteristically roost in dilapidated buildings or tree cavities near water and have been known to day roost under bridges and culverts. Day roost surveys were conducted on September 14, 2022 from 9:30 am to 4:00 pm. Approximately 18 bats were detected utilizing multiple box culverts within the PSA, demonstrating the suitability of these structures for use by bats. Existing overpasses or bridges within the PSA are too tall in height with high levels of sunlight present beneath the bridge to support roosting bats. Additionally, seams and gaps in the bridge that could support bats are not present. Known habitat for Rafinesque's big-eared bat is present within the PSA. Specifically, roosting and day roosting habitat for the bat may exist in tree cavities near waterbodies and structures.



Rafinesque's big-eared bats roosting in a box culvert on I-26. September 14, 2022

Suitable habitat exists for Rafinesque's big-eared bat and they have been documented roosting inside box culverts within the PSA. However, state listed species are not provided protection under the federal ESA.

2.6 Canby's dropwort

Canby's dropwort is an endangered perennial herbaceous plant with tuberous roots and pale, fleshy rhizomes and erect stems up to 39 inches tall. The flowers are small and white with five petals that grow in umbels or flat-topped clusters. Canby's dropwort grows in wide range of habitats, including moist areas in the coastal plain and sandhills, wet meadows, wet pineland savannas, ditches, sloughs, and around the edges of Cypress-pine ponds. The plant seems to be more prolific when the habitat has been burned.

Suitable habitat for Canby's dropwort exists within ditches and other open wet areas (i.e., grass and sedge fields) located within the PSA. Surveys were conducted during the flowering period and this species was not observed.

2.7 Pondberry

Pondberry is an endangered deciduous shrub that grows up to six feet tall and spreads by underground stolons. The leaves are ovately to elliptically shaped, thin, membranaceous and drooping and have a strong sassafras-like odor when brushed. The flowers are pale yellow and bloom in the spring before the appearance of leaves. Fruits are bright red and oval-shaped and mature in the fall. Pondberry generally occupies wetland habitats that are normally flooded or saturated during the dormant season, but infrequently flooded during the growing season for extended periods. The plant is typically associated

with bottomland hardwoods in the inner coastal plain, and margins of sinks, ponds, and other depressions in the outer coastal plain. **Suitable habitat for pondberry exists within freshwater depressional wetlands and along the margins of ponds located within the PSA. Surveys were conducted and this species was not observed.**

2.8 Gopher tortoise

The gopher tortoise is listed as a candidate species and is not currently protected by the ESA. The gopher tortoise is one group of North American land tortoises that originated 60 million years ago. The gopher tortoises burrow and these burrows are often utilized by other species within an ecosystem, making them a keystone species. These tortoises prefer dry-landscapes as well as forests of longleaf pine trees. They are found in south-western South Carolina down to the Florida peninsula. The gopher tortoise is diurnal and active any time of the year with activity peaking in May or June. The mating season for these tortoises is from April through November with peaks in August and September. **Suitable habitat for the gopher tortoise is not present within the PSA and gopher tortoises were not identified during field surveys.**

2.9 Monarch Butterfly

The monarch butterfly is listed as a candidate species and is not currently protected by the ESA. This invertebrate is among the most easily recognizable butterfly species in North America. The wings of these butterflies are a deep orange with black borders and veins with white spots along the edges. The underside of the wings is a pale orange. Monarch caterpillars are striped with yellow, black, and white bands and reach lengths of two inches or five centimeters. They are a migratory insect and have two populations within North America divided by the Rocky Mountains; the eastern population and the western population. The eastern population contains the majority of the monarch population. The eastern population travels to Mexico during the winter for the eastern population and around March the eastern population begins its journey north to southern Canada during the summer months. Monarch caterpillars feed exclusively on milkweed leaves and then evolve to feeding on nectar from a wide range of blooming native plants as adult butterflies. Milkweed is native to South Carolina and is not present in PSA. **Based on the lack of milkweed in the PSA, suitable habitat is not present for the monarch caterpillar or butterfly.**

2.10 Atlantic Sturgeon

Atlantic sturgeon is listed as endangered and is protected under the ESA. Atlantic sturgeon is among the longest-lived fish with a lifespan approaching 50 years or greater. The Atlantic sturgeon is also the largest fish inhabiting freshwaters on the Atlantic Coast. These fish are shaped like sharks and have a deeply

forked tail in which the upper lobe is longer than the lower. A single small dorsal fin is located far back toward the tail and a single anal fin is directly beneath on the underside. Coloration is dark bronze to brownish, lighter on the sides and white below. This fish is a benthic feeder and primarily prey on small invertebrates. **There is no suitable habitat within the PSA for the Atlantic sturgeon.**

2.11 Shortnose Sturgeon

Shortnose sturgeon (*Acipenser brevirostrum*) is listed as endangered under the ESA. The shortnose sturgeon are smaller than their Atlantic sturgeon counterpart. They have a similar age range of 50 years or greater. These fish are also similar in build in that they are also shaped like sharks and have a deeply forked tail in which the upper lobe is longer than the lower. They single small dorsal fin is located far back toward the tail and a single anal fin is directly beneath on the underside. Coloration is generally brownish above with pink or salmon tones, lighter on the sides, and white below. Due to the coloration the shortnose sturgeon is commonly referred to by fisherman as ‘Salmon sturgeon’. This fish is a benthic feeder and primarily prey on small invertebrates. **There is no suitable habitat within the PSA for the shortnose sturgeon.**

2.12 Bald Eagle

Bald eagles were listed as endangered species in 1978. Bald eagles were removed from the endangered species list in August 2007 because their populations recovered sufficiently. Bald eagles are now protected under the MBTA and the BGEPA. The bald eagle gets its name from the distinctive white head of mature adults (6 years of age). Bald eagle breeding habitat is generally within approximately 2.5 miles of water bodies including rivers, lakes, reservoirs, bays, and other areas with abundant fish and/or waterfowl populations. Nesting areas usually occur in large tall trees able to support their four to six-foot-wide nests, and may be used year after year or may be alternated with another nest in successive years. Additionally, nesting sites are primarily chosen in areas with limited disturbance. Eggs are laid between October and March with clutch sizes of 1 to 3 eggs. Chicks usually fledge by 12 weeks but often remain in the same territory for an additional 6 weeks as they are still dependent on the adults for food. **Suitable habitat exists for the bald eagle; however, no birds or nests were present during surveys and the nearest known active eagle nest is 2.2 miles to the north.**

3. Environmental Baseline

The majority of PSA is comprised of existing roadway. Areas which are not developed were classified based upon vegetation and land form types. Vegetative terrestrial communities within the PSA were distinguished by dominant plant species and community types, location in the landscape, past

disturbances, and hydrologic characteristics. Only those habitats which were located directly within the PSA are characterized. The PSA was examined through current and historical Google Earth imagery, USDA ortho imagery, and USGS topographic maps to discern areas with similar signatures, and the data were verified and classified through on-site field review.

Specific surveys for commonly occurring wildlife species were not conducted; however, wildlife readily observed and documented during the field reviews, or those likely to occur within the PSA, are summarized below.

Common bird species either observed during field reviews or known to occur within the PSA include hooded merganser, barn swallow, European starling, black vulture, Canada goose, ring-necked duck, cedar waxwing, brown thrasher, horned lark, eastern bluebird, northern cardinal, indigo bunting, American golden-plover, Eastern towhee, Northern bobwhite, common ground dove, American crow, and red-headed woodpecker.

There are many common reptile and amphibian species that could occur in the PSA including American bullfrog, Eastern narrow mouth toad, green or bronze frog, green treefrog, little grass frog, pig frog, southern cricket frog, southern leopard frog, southern toad, squirrel treefrog, broadhead skink, eastern fence lizard, green anole, racer snake, ringneck snake, rat snake, corn snake, and slider turtle.

Common mammal species likely to occur in the PSA include white-tailed deer, striped skunk, raccoon, bats, cotton mouse, opossum, eastern gray squirrel, and eastern cottontail rabbit.

3.1 Aquatic and open water habitats:

3.1.1 Streams

A single freshwater unnamed stream traverses the PSA. Project activities such as roadway fill, culvert extension, and rip rap to reinforce the outlet of the box culverts would result in impacts to a portion of this stream.

3.1.2 Open Ponds

Open freshwater communities within the PSA include man-made ponds and naturalized borrow pits. These areas typically consist of open and deeper water within the central portion and vegetated, shallow water along the outer portion of the pond. Several man-made freshwater ponds exist throughout the study area and some are hydrologically connected to other wetlands or ditches. Plant species common to the shallow, vegetated portions of the ponds and borrow pits include black willow (*Salix nigra*), wax

myrtle (*Morella cerifera*), bladderwort (*Utricularia macrorhiza*), duckweed (*Lemna* sp.), and various species of cattail (*Typha* sp.).

3.2 Terrestrial and mixed aquatic habitats:

3.2.1 Maintained Development

Maintained developments were classified as areas or regions which have altered the native state of the land for consumptive human use. Man-maintained and disturbed communities within the PSA also include roadside shoulders and utility rights of way. Most of the naturally-occurring plants associated with these maintained or disturbed communities have been eliminated and/or replaced with cultivated grasses or taken over by naturally occurring opportunistic species characteristic of disturbed areas. Most of the disturbed roadway edges are comprised of herbaceous species and sparse shrubs, including ragweed (*Ambrosia artemisiifolia*), various grasses such as common fescue (*Festuca* sp.), ryegrass (*Lolium perenne*), bahia grass (*Paspalum notatum*), and bluegrass (*Poa* sp.).

3.2.2 Mixed Pine/Hardwood Forest

Mixed pine/hardwood forest is a dominant community type located throughout the majority of the PSA. Dominant vegetation consists of pine species including loblolly pine (*Pinus taeda*) and pond pine (*Pinus serotina*). Hardwood species observed include sweetgum (*Liquidambar styraciflua*) and water oak (*Quercus nigra*). Smaller hardwood sapling species include sweetgum, sycamore (*Platanus occidentalis*), and wax myrtle. Groundcover and vine strata include blackberry (*Rubus* sp.), blueberry (*Vaccinium* sp.), greenbrier (*Smilax* sp.), poison ivy (*Toxicodendron radicans*) and partridge berry (*Michella repens*).

3.2.3 Scrub/ Shrub

Scrub shrub habitat is characterized as being cleared within the past five years. These areas do not have the established species found in the mixed hardwood forest but are not frequently mowed like roadsides and lawns. Notable areas include dry drainages, areas beneath overpasses and interchanges, and spaces that have been maintained in the past but have been allowed to lie fallow. These communities often include ruderal and non-native species. These species tend to be more widespread and occupy numerous habitat types. These areas include an early diverse array of herbaceous species within the initial phases of disturbance and transition towards the climax community, replacing primary colonizers. Species observed in the PSA include sweetgum, wax myrtle, blackberry, eastern baccharis (*Baccharis halimifolia*), Chinese privet (*Ligustrum sinense*), Autumn olive (*Eleagnus umbellata*), honey suckle (*Lonicera japonica*), broomsedge (*Andropogon* sp.), black cherry (*Prunus serotina*), and loblolly pine.

3.2.4 Freshwater Herbaceous Wetlands

This habitat type does not support woody vegetation but is characterized by a mix of herbaceous species often growing in standing or perennially moist soils. Cattail, wool grass (*Scirpus* sp.), sedges (*Carex* sp.), rushes (*Juncus* sp., *Eleocharis* sp.) were common in these areas. Margins of these open areas are often lined with sapling woody species such as alder (*Alnus serrulata*), birch (*Betula nigra*), and black willow.

3.2.5 Forested Wetlands

This is the most common wetland type throughout the site. These features have hydric soils and may or may not have evidence of periodic standing surface water. Canopy species are mixed hardwood with a sapling and shrub stratum. Ground cover may or may not be present. Notable species include: sweetgum, red maple and southern magnolia (*Magnolia grandiflora*) as canopy species with water oak and yaupon (*Ilex vomitoria*) composing a sampling stratum. Shrubs include Chinese privet, fetterbush (*Lyonia lucida*), and giant cane. Herbaceous species include rushes, and a mix of sedges. Vines such as greenbrier, poison ivy, and honey suckle were often observed in this habitat type.

3.2.6 Cypress-tupelo Wetlands

This is a mature forested habitat type characterized by an overstory of bald cypress (*Taxodium distichum*) and water tupelo (*Nyssa aquatica*). Other species present include swamp tupelo (*Nyssa biflora*), red maple, swamp cottonwood (*Populus eterophylla*), sycamore, and Carolina ash (*Fraxinus caroliniana*). Shrub and herbaceous layers are less diverse or absent. This habitat type is open and may have standing water for all or part of the year.

4. Project Details

4.1 Construction

This project is expected to be delivered via the design build method and final construction and design plans would be prepared by the selected contractor and submitted to the SCDOT. While means and methods of construction may not be final, the following is an outline of the likely construction activities and project designs. This may vary slightly depending on the selected contractor. Changes from those proposed in this document that would result in greater impact effects to listed species would require additional coordination with SCDOT and federal agencies.

4.1.1 Roadway and Overpass Construction

Road construction generally entails the replacement of existing on and off exit ramps to reconstruct the interchange. In many areas these impacts would occur to upland-maintained habitat that is already

disturbed. In some areas, such as overpass approaches, additional habitat would be converted to road right of way.

4.1.2 Drainage and Box Culverts

Improvements to the drainage system would be provided with the interchange reconfiguration. In general, the existing drainage facilities are not proposed to change substantially. Existing parallel roadside ditches would remain or be reconstructed. To support longer-length or realigned on and off exit ramps, the box culverts that are beneath I-26 and I-95 (Appendix A, Figure 2: culverts 1 through 3) would need to be extended. This would include lengthening the existing box culverts and also adding class B or class C rip rap at the outlets to provide stability and reduce erosion. The dirt frontage road culvert (Appendix A, Figure 2: culvert 4) would potentially be reconstructed, as the frontage road would be realigned to allow for the inclusion of a new off ramp from I-26 westbound to I-95 northbound.

4.1.3 Project Timeline

Construction is expected to begin in late 2024, and is expected to last approximately three years. This project is expected to be delivered via the design build process and final construction sequencing would be determined by the contractor. The following is an outline of the likely construction sequence and may vary slightly depending on the selected contractor. Changes from those proposed in this submittal by the contractor that would result in greater impact effects to listed species would require additional coordination with SCDOT and federal agencies.

4.1.4 Site Preparation

After additional right-of-way is acquired and surveys are conducted, utility relocation work would begin. Site clearing and grubbing would be necessary for some areas outside of the already maintained right-of-way. Grading of slopes would be required and would follow the established Stormwater Pollution Prevention Plan (SWPPP).

4.1.5 Construction Access and Staging

Areas for staging, laydown, and equipment would be sited outside of aquatic habitats. Materials will be stored in designated upland areas and only clean fills and materials will be utilized for construction per SCDOT standard specs. Best management practices (BMPs), along with other proven procedures would be implemented to mitigate potential temporary impacts from construction. In addition, detailed engineering and construction plans would be developed for the Preferred Alternative, which would specify procedures to mitigate potentially adverse impacts.

4.1.5 Potential Impacts on Water Quality

Areas for staging, laydown and equipment would be sited outside of aquatic habitats. Construction activities that are outside of aquatic habitats may still have the potential to impact water quality. As soils are disturbed, the movement of loose sediment that may contain pollutants downslope into ditches and other water bodies is possible. To eliminate or reduce sedimentation and turbidity SCDOT has specifications or BMPs available for the following elements: silt fence, sediment basins, drainage ditches, sediment tubes, sandbag/straw barriers, slope drains, hydroseeding, hydraulic mulching, geotextile matting, and inlet/outlet protection.

Additionally, construction equipment has the potential to release petroleum products like oil, fuel, and hydraulic fluid. As part of the environmental compliance plan, measures will be implemented to reduce and minimize potential impacts to water quality like containment areas of fuel storage, clean up procedures for spills, and the development of a Spill Pollution Prevention Plan.

BMPs, along with other proven procedures would be implemented to mitigate potential temporary impacts from construction. In addition, detailed engineering and construction plans would be developed for the Preferred Alternative, which would specify procedures to mitigate potentially adverse impacts.

4.2 Operations and Maintenance

Once construction is complete, much of the operations and maintenance of the roadway would take place in upland, maintained roadside habitat. Tasks such as routine mowing, guard rail repairs, road surface repairs, and stormwater infrastructure maintenance would be needed. Routine maintenance is expected on the existing and proposed new overpasses including sanding/painting, deck resurfacing, and surface patching. SCDOT Maintenance would utilize BMPs to limit sediment and non-point source runoff resulting from maintenance activities. Drainage structures along the interstates would be maintained to include routine cleaning of existing structures such as box culverts, as well as other drainage features such as cross line pipes, pipe inlets, and roadside ditches. Permanent drainage detention structures are not currently proposed or anticipated to be needed for the interchange improvements.

5. Project Action Area

5.1 Project Action Area

The action area, as defined under 50 CFR §402.02, includes all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action. The project roadway action area includes approximately 482 acres, as shown in **Appendix A, Figure 1**.

5.2 Limits of an Action Area

The limits of the action area are within the PSA. The action area may be slightly modified again as the design team begins final road, bridge, and drainage design. Any activities that could potentially impact protected species, other than those already outlined in this document may require additional Section 7 coordination.

6. Effects Analysis

6.1 Direct and Indirect Effects

Direct and indirect effects to species would be avoided and minimized to maximum extent practicable. In the case of all wildlife species except bats, the anticipated direct impacts are to potential foraging habitat. Roosting habitat for bats would be temporarily impacted. Generally, secondary or indirect impacts are induced by the initial action. They may be comprised of a variety of effects such as changes in land use, development patterns, water quality, wildlife habitat, and other natural systems. Transportation projects may influence development in localized areas and have environmental impacts resulting from land use changes, however the interchange reconstruction would not change existing access and development is not expected to vary. Risk factors include being struck by construction equipment or materials, construction-associated noise and turbidity, temporary or permanent loss of habitat, and temporary disruption of behavior patterns. In the case of endangered species, surveys were conducted within the survey window and no protected species were identified. In the case of the plant species, surveys were conducted within the survey window and no protected species were identified. Potential impacts are as listed:

American wood stork: There are no known wood stork rookeries within the PSA, none were found during surveys, and no birds were present during field surveys. The proposed project may affect wood stork potential foraging habitat. While impacts would be minimized, areas of open waters and wetlands would be filled with widened bridge approaches and widened roadways. Foraging wood storks would likely avoid the construction area when activity and noise increases. The project area and surround habitats contain a system of wetlands and open ponds, which provide alternative feeding habitats nearby. **Therefore, the proposed project may affect, but is not likely to adversely affect American wood stork.**

Northern long-eared bat: Habitat conducive to seasonal occupation for northern long-eared bat is located within the PSA. The PSA contains potentially suitable summer roosting and foraging habitat for this species within forested areas. The preferred winter hibernation habitat for this species does not exist within the PSA or its immediate vicinity. In addition, the narrow range of forested woodlands within the

PSA is a limiting factor to its suitability for this species. No northern long-eared bats were identified during September 2022 field surveys and there are no known populations or hibernacula within the PSA. Surveys have not been conducted in the winter months. The site has been documented as being suitable for bat species, particularly within large box culverts. **Therefore, the proposed project may affect, but is not likely to adversely affect the Northern long-eared bat.**

Tricolored bat: Habitat conducive to seasonal occupation for the tricolored bat is located within the PSA. The PSA contains potentially suitable summer roosting and foraging habitat for this species within forested areas. No tricolored bats were identified during September 2022 field surveys and there are no known populations within the PSA. Surveys have not been conducted in the winter months. The site has been documented as being suitable for bat species, particularly within large box culverts and tricolored bats have been documented utilizing large interstate box culverts in South Carolina. **Therefore, the proposed project may affect, but is not likely to adversely affect the tricolored bat.**

Rafinesque's big eared-bat: Habitat conducive to seasonal occupation for Rafinesque's big-eared bat is located within the PSA. The PSA contains potentially suitable roosting and foraging habitat for this species within forested areas and box culverts. Approximately 18 Rafinesque's big-eared bats were identified during September 2022 field surveys. These Rafinesque's big-ear bats were found within three of the four culverts within the PSA. **Therefore, the proposed project may affect, but is not likely to adversely affect the state endangered Rafinesque's big-eared bat.**

Canby's dropwort: This plant grows in moist areas in the coastal plain and sandhills, including wet meadows, wet pineland savannas, ditches, sloughs, and around the edges of Cypress-pine ponds. Canby's dropwort seems to be more prolific when the habitat has been burned. Suitable habitat for Canby's dropwort exists within ditches and other open wet areas (i.e., grass and sedge fields) located within the PSA. Surveys were conducted during the flowering period and the Canby's dropwort was not observed. **Therefore, the proposed project will have no effect on Canby's dropwort.**

Pondberry: This plant is typically associated with bottomland hardwoods in the inner coastal plain, and margins of sinks, ponds, and other depressions in the outer coastal plain. Suitable habitat for pondberry exists within the limited amount of forested bottomland hardwoods located within the PSA. Surveys were

conducted pondberry was not observed. **Therefore, the proposed project may affect, but is not likely to adversely affect pondberry.**

Bald Eagle: Habitat conducive for nesting and foraging within the PSA. The PSA has suitable trees for nesting in with limited disturbance as well as foraging ponds. No bald eagles have been observed in the PSA with the closest nest being 2.2 miles north. The proposed project may affect bald eagle foraging habitat. While impacts would be minimized, areas of open waters and wetlands would be filled with widened bridge approaches and widened roadways. Foraging bald eagles would likely avoid the construction area when activity and noise increases. The project area and surround habitats contain a system of wetlands and open ponds, which provide alternative feeding habitats nearby. **Therefore, the proposed project will have no impact on bald eagles.**

6.2 Interrelated and Interdependent Actions and Activities

Interrelated and interdependent actions are those that are part of a larger action and depend on the larger action for their justification. There are no related or dependent actions to the I-26 at I-95 Interchange Improvement project.

6.3 Migratory Bird Treaty Act

The federal MBTA 16 USC § 703-711, states that it is unlawful to pursue, hunt, take, capture or kill; attempt to take, capture or kill; possess, offer to or sell, barter, purchase, deliver or cause to be shipped, exported, imported, transported, carried or received any migratory bird, part, nest, egg or product, manufactured or not. The migratory bird species protected by the Act are listed in 50 CFR 10.13. The USFWS have statutory authority and responsibility for enforcing the MBTA (16 U.S.C. 703–712). Any activity which results in the take of migratory birds is prohibited unless authorized by the USFWS.

Ground nests, arboreal nests, and nests built on man-made structures could occur within the project area. Active nests of both the barn swallow (*Hirundo rustica*) were documented on overpasses along I-26. Additionally, nesting migratory birds in the surrounding vegetated areas are likely.

7. Effect Determinations

This section includes effect determinations to listed species or those that may become listed in the relatively near future (**Table 2**). Of the seven endangered species, there would be no effect to red-cockaded woodpecker, Canby's dropwort, Atlantic sturgeon, or shortnose sturgeon. The project may affect, but is not likely to adversely affect American wood stork, northern long-eared bat, or pondberry.

Regarding the species that may be listed in the future (tricolored bat), the project may affect, but is not likely to adversely affect this bat.

While Rafinesque's big-eared bat is not protected federally, because of suitable habitat for other bat species and the known presence of Rafinesque's big-eared bat, this species was analyzed. The project may affect, but is not likely to adversely affect Rafinesque's big-eared bat.

An ESA Section 7 project affect determination on bald eagle is not necessary as the species is no longer protected by the ESA and does not require Section 7 consultation. As proposed, there would be no impacts to bald eagle.

Table 2. Protected or At-Risk Species Effect Determinations

Species	Protection Status	Biological Conclusion
Atlantic sturgeon (<i>Acipenser oxyrinchus oxyrinchus</i>)	Endangered	No effect
Shortnose sturgeon (<i>Acipenser brevirostrum</i>)	Endangered	No effect
Canby's dropwort (<i>Oxypolis canbyi</i>)	Endangered	No effect
Pondberry (<i>Lindera melissifolia</i>)	Endangered	May Affect, Not Likely to Adversely Effect
American wood stork (<i>Mycteria americana</i>)	Threatened	May Affect, Not Likely to Adversely Affect
Red-cockaded woodpecker (<i>Picoides borealis</i>)	Threatened	No effect
Northern long-eared bat (<i>Myotis septentrionalis</i>)	Threatened	May Affect, Not Likely to Adversely Effect
Tricolored bat (<i>Perimyotis subflavus</i>)	Threatened	Presumed Conclusion: May Affect, Not Likely to Adversely Effect
Rafinesque's big-eared bat (<i>Corynorhinus rafinesquii</i>)	State Endangered	May Affect, Not Likely to Adversely Affect
Bald Eagle (<i>Haliaeetus leucocephalus</i>)	Federally Protected	No impact

8. Conservation Measures and Environmental Commitments

Steps should be taken to avoid impacts existing structures such as large culverts to minimize the potential to impact bats.

The SCDOT commits to implementing the following conservation measures, or actions, to minimize or compensate for effects to each species:

- Follow SCDOT Best Management Practices during construction
- Obtain NPDES permit and prepare a Stormwater Pollution Prevention Plan
- Obligations under Section 7 of the Endangered Species Act must be considered if (1) new information reveals impacts associated with this project may affect listed species or critical habitat in a manner not previously considered, (2) the project 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 proposed improvements.”

To avoid impacts to nesting birds, the contractor shall notify the Resident Construction Engineer (RCE) at least four weeks prior to construction/demolition/maintenance of bridges and box culverts. The RCE will coordinate with SCDOT Environmental Services Office (ESO), Compliance Division, to determine if there are any active birds using structures. After this coordination, it would be determined when construction/demolition/maintenance can begin. If a nest is observed that was not discovered after construction/demolition/maintenance has begun, the contractor will cease work and immediately notify the RCE, who will notify the ESO Compliance Division. The ESO Compliance Division will determine the next course of action. The use of any deterrents by the contractor designed to prevent birds from nesting, shall be approved by the RCE with coordination from the ESO Compliance Division.

9. References

- NMFS. 1998. Recovery Plan for the Shortnose Sturgeon (*Acipenser brevirostrum*). Prepared by the Shortnose Sturgeon Recovery Team for the National Marine Fisheries Service, Silver Spring, Maryland. 104 pages.
- SCDNR. 2020. South Carolina Bat Conservation Plan: Chapter 3 Species Accounts. Available at: <https://www.dnr.sc.gov/wildlife/bats/SCBatConservationPlanIntro.pdf> (Accessed August 2022).
- SCDNR. 2022. South Carolina’s Bald Eagles – Nest Locations. Available at: [Species Distributions \(Desktop\) \(arcgis.com\)](#) . (Accessed January 2022.)
- USFWS. 2022. Occurrences of Federally Threatened, Endangered, and Candidate Animal Species in South Carolina. <https://www.fws.gov/office/south-carolina-ecological-services/library>

USFWS. 2014. Endangered and Threatened Wildlife and Plants; Reclassification of the U.S. Breeding Population of the Wood Stork from Endangered to Threatened. Department of the Interior. Federal Register/Vol. 79, No. 125.

USFWS. 2010a. Canby's Dropwort (*Oxypolis canbyi*) 5 Year Review. Summary and Evaluation. p. 17. http://ecos.fws.gov/docs/five_year_review/doc3282.pdf

USFWS. 1997. Revised Recovery Plan for the US Breeding Population of the Wood Stork. https://www.fws.gov/northflorida/WoodStorks/Documents/19970127_rpp_Wood-stork-recovery-plan-1997.pdf

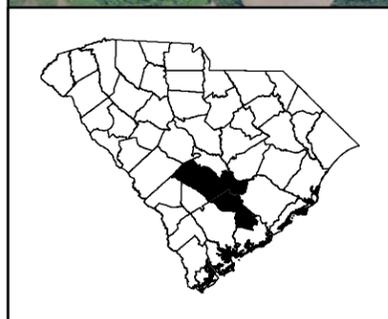
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Appendix A

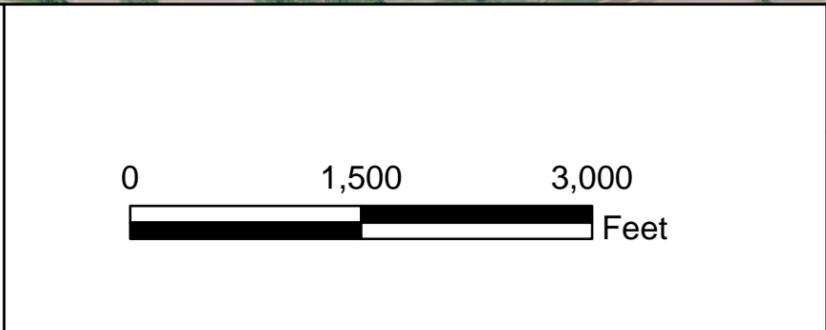
Figure 1 Location Map

Figure 2 Box Culverts Within the Project Study Area

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Legend
 Project Study Area (446.53 Acres)

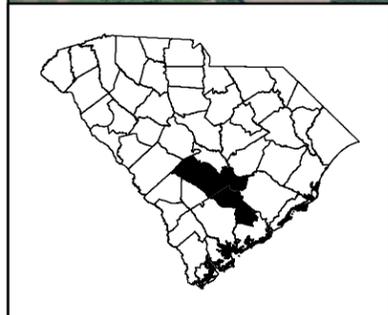


I-26 and I-95 Interchange Reconfiguration Design Build
 Orangeburg and Dorchester Counties
 SCDOT P038677

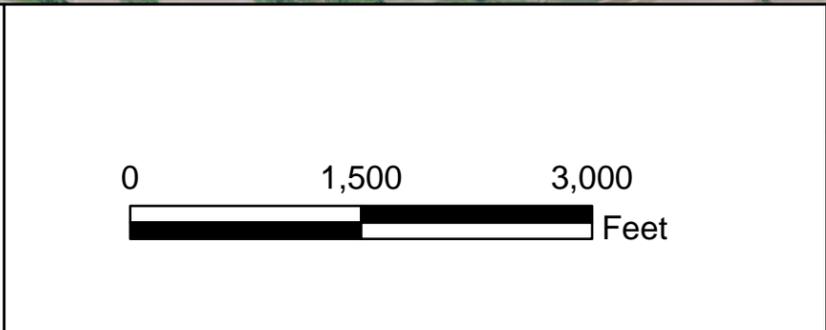
Source:
 USDA Orthoimagery
 2021

Drawn By: JLS
 QA/QC: KLM
 September 2022

Project Study Area



Legend	
	Project Study Area (446.53 Acres)
	No bats detected in box culvert to-date
	Bats roosting in box culvert
	Existing Culvert



I-26 and I-95 Interchange Reconfiguration Design Build
 Orangeburg and Dorchester Counties
 SCDOT P038677

Source:
 USDA Orthoimagery
 2021

Drawn By: JLS
 QA/QC: KLM
 September 2022

Box Culverts within the
 Project Study Area

Appendix B

USFWS Orangeburg and Dorchester Counties Species Lists

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ORANGEBURG COUNTY

CATEGORY	COMMON NAME/STATUS	SCIENTIFIC NAME	SURVEY WINDOW/ TIME PERIOD	COMMENTS
Amphibian	Gopher frog (ARS)	<i>Lithobates capito</i>	Breeding: October-March	Call survey: February-April
Bird	American wood stork (T)	<i>Mycteria americana</i>	February 15-September 1	Nesting season
Bird	Bald eagle (BGEPA)	<i>Haliaeetus leucocephalus</i>	October 1-May 15	Nesting season
Bird	Red-cockaded woodpecker (E)	<i>Picoides borealis</i>	March 1-July 31	Nesting season
Fish	Atlantic sturgeon* (E)	<i>Acipenser oxyrinchus*</i>	February 1-April 30	Spawning migration
Fish	Shortnose sturgeon* (E)	<i>Acipenser brevirostrum*</i>	February 1-April 30	Spawning migration
Insect	Monarch butterfly (C)	<i>Danaus plexippus</i>	August-December	Overwinter population departs; March-April
Mammal	Tri-colored bat (ARS)	<i>Perimyotis subflavus</i>	Year round	Found in mines and caves in the winter
Plant	Boykin's lobelia (ARS)	<i>Lobelia boykinii</i>	May-August	
Plant	Canby's dropwort (E)	<i>Oxpolis canbyi</i>	Mid-July-September	
Plant	Carolina-birds-in-a-nest (ARS)	<i>Macbridea caroliniana</i>	July-November	
Reptile	Eastern diamondback rattlesnake (ARS)	<i>Crotalus adamanteus</i>	Most of the year	Peak: April-November

Note: There are no federally protected species found in this county in the crustacean and mollusk family categories.

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DORCHESTER COUNTY

CATEGORY	COMMON NAME/STATUS	SCIENTIFIC NAME	SURVEY WINDOW/ TIME PERIOD	COMMENTS
Amphibian	Gopher frog (ARS)	<i>Lithobates capito</i>	Breeding: October-March	Call survey: February-April
Bird	American wood stork (T)	<i>Mycteria americana</i>	February 15-September 1	Nesting season
Bird	Bald eagle (BGEPA)	<i>Haliaeetus leucocephalus</i>	October 1-May 15	Nesting season
Bird	Red-cockaded woodpecker (E)	<i>Picoides borealis</i>	March 1-July 31	Nesting season
Fish	Atlantic sturgeon* (E)	<i>Acipenser oxyrinchus*</i>	February 1-April 30	Spawning migration
Fish	Shortnose sturgeon* (E)	<i>Acipenser brevirostrum*</i>	February 1-April 30	Spawning migration
Insect	Monarch butterfly (C)	<i>Danaus plexippus</i>	August-December	Overwinter population departs; March-April
Mammal	Northern long-eared bat (T)	<i>Myotis septentrionalis</i>	Year round	Winter surveys not as successful
Mammal	Tri-colored bat (ARS)	<i>Perimyotis subflavus</i>	Year round	Found in mines and caves in the winter
Plant	Bog asphodel (ARS*)	<i>Nartheccium americanum</i>	June-July	
Reptile	Eastern diamondback rattlesnake (ARS)	<i>Crotalus adamanteus</i>	Most of the year	Peak: April-November
Reptile	Gopher tortoise (C)	<i>Gopherus polyphemus</i>	April 1-October 31	Active period
Reptile	Spotted turtle (ARS)	<i>Clemmys guttata</i>	February-mid April	

Note: There are no federally protected species found in this county in the crustacean and mollusk family categories.

Appendix C

IPaC Verification Letter and Species List

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United States Department of the Interior



FISH AND WILDLIFE SERVICE
South Carolina Ecological Services
176 Croghan Spur Road, Suite 200
Charleston, SC 29407-7558
Phone: (843) 727-4707 Fax: (843) 727-4218

In Reply Refer To:
Project code: 2022-0089182
Project Name: I-26 at I-95 Interchange Improvement Project

September 27, 2022

Subject: Verification letter for the 'I-26 at I-95 Interchange Improvement Project' project under the January 5, 2016, Programmatic Biological Opinion on Final 4(d) Rule for the Northern Long-eared Bat and Activities Excepted from Take Prohibitions.

Dear Asha Wallace:

The U.S. Fish and Wildlife Service (Service) received on September 27, 2022 your effects determination for the 'I-26 at I-95 Interchange Improvement Project' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. This IPaC key assists users in determining whether a Federal action is consistent with the activities analyzed in the Service's January 5, 2016, Programmatic Biological Opinion (PBO). The PBO addresses activities excepted from "take"^[1] prohibitions applicable to the northern long-eared bat under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, the Action is consistent with activities analyzed in the PBO. The Action may affect the northern long-eared bat; however, any take that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the PBO satisfies and concludes your responsibilities for this Action under ESA Section 7(a)(2) with respect to the northern long-eared bat.

Please report to our office any changes to the information about the Action that you submitted in IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation. If the Action is not completed within one year of the date of this letter, you must update and resubmit the information required in the IPaC key.

This IPaC-assisted determination allows you to rely on the PBO for compliance with ESA Section 7(a)(2) only for the northern long-eared bat. It **does not** apply to the following ESA-protected species that also may occur in the Action area:

- Canby's Dropwort *Oxypolis canbyi* Endangered
- Monarch Butterfly *Danaus plexippus* Candidate
- Pondberry *Lindera melissifolia* Endangered
- Red-cockaded Woodpecker *Picoides borealis* Endangered
- Wood Stork *Mycteria americana* Threatened

If the Action may affect other federally listed species besides the northern long-eared bat, a proposed species, and/or designated critical habitat, additional consultation between you and this Service office is required. If the Action may disturb bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act is recommended.

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

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Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

I-26 at I-95 Interchange Improvement Project

2. Description

The following description was provided for the project 'I-26 at I-95 Interchange Improvement Project':

The South Carolina Department of Transportation (SCDOT) proposes to improve the I-26 at I-95 Interchange located in Orangeburg and Dorchester Counties.

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@33.3207441,-80.54801687625113,14z>



Determination Key Result

This Federal Action may affect the northern long-eared bat in a manner consistent with the description of activities addressed by the Service's PBO dated January 5, 2016. Any taking that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o). Therefore, the PBO satisfies your responsibilities for this Action under ESA Section 7(a)(2) relative to the northern long-eared bat.

Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on May 15, 2017. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for Federal actions is to assist determinations as to whether proposed actions are consistent with those analyzed in the Service's PBO dated January 5, 2016.

Federal actions that may cause prohibited take of northern long-eared bats, affect ESA-listed species other than the northern long-eared bat, or affect any designated critical habitat, require

ESA Section 7(a)(2) consultation in addition to the use of this key. Federal actions that may affect species proposed for listing or critical habitat proposed for designation may require a conference under ESA Section 7(a)(4).

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Determination Key Result

This project may affect the threatened Northern long-eared bat; therefore, consultation with the Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.) is required. However, based on the information you provided, this project may rely on the Service's January 5, 2016, *Programmatic Biological Opinion on Final 4(d) Rule for the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions* to fulfill its Section 7(a)(2) consultation obligation.

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?
Yes
2. Have you determined that the proposed action will have "no effect" on the northern long-eared bat? (If you are unsure select "No")
No
3. Will your activity purposefully **Take** northern long-eared bats?
No
4. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?
Automatically answered
No
5. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at www.fws.gov/media/nleb-roost-tree-and-hibernacula-state-specific-data-links-0.

Yes

6. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?
No
 7. Will the action involve Tree Removal?
Yes
-

8. Will the action only remove hazardous trees for the protection of human life or property?

No

9. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

No

10. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

No

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Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

443

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

IPaC User Contact Information

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State: SC
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Email: wallacea@cecsinc.com
Phone: 8037790311

Lead Agency Contact Information

Lead Agency: Department of Transportation

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Appendix D

USFWS Ecological Services Species List

DRAFT



United States Department of the Interior



FISH AND WILDLIFE SERVICE
South Carolina Ecological Services
176 Croghan Spur Road, Suite 200
Charleston, SC 29407-7558
Phone: (843) 727-4707 Fax: (843) 727-4218

In Reply Refer To:
Project Code: 2022-0089182
Project Name: I-26 at I-95 Interchange Improvement Project

September 27, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Northern Long-eared Bat: Additionally, please note that on March 23, 2022, the Service published a proposal to reclassify the northern long-eared bat (NLEB) as endangered under the Endangered Species Act. The U.S. District Court for the District of Columbia has ordered the Service to complete a new final listing determination for the NLEB by November 2022 (Case 1:15-cv-00477, March 1, 2021). The bat, currently listed as threatened, faces extinction due to the range-wide impacts of white-nose syndrome (WNS), a deadly fungal disease affecting cave-dwelling bats across the continent. The proposed reclassification, if finalized, would remove the current 4(d) rule for the NLEB, as these rules may be applied only to threatened species. Depending on the type of effects a project has on NLEB, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective (anticipated to occur by December 30, 2022). If your project may result in incidental take of NLEB after the new listing goes into effect this will first need to be addressed in an updated consultation that includes an Incidental Take Statement. If your project may require re-initiation of consultation, please contact our office for additional guidance.

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/birds/policies-and-regulations.php>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and

recommended conservation measures see <https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

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Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

South Carolina Ecological Services

176 Croghan Spur Road, Suite 200

Charleston, SC 29407-7558

(843) 727-4707

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Project Summary

Project Code: 2022-0089182

Project Name: I-26 at I-95 Interchange Improvement Project

Project Type: Government / Municipal (Non-Military) Construction

Project Description: The South Carolina Department of Transportation (SCDOT) proposes to improve the I-26 at I-95 Interchange located in Orangeburg and Dorchester Counties.

Project Location:

Approximate location of the project can be viewed in Google Maps: [https://](https://www.google.com/maps/@33.3207441,-80.54801687625113,14z)

www.google.com/maps/@33.3207441,-80.54801687625113,14z



Counties: Dorchester and Orangeburg counties, South Carolina

Endangered Species Act Species

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Red-cockaded Woodpecker <i>Picoides borealis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7614	Endangered
Wood Stork <i>Mycteria americana</i> Population: AL, FL, GA, MS, NC, SC No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8477	Threatened

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Canby's Dropwort <i>Oxypolis canbyi</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7738	Endangered
Pondberry <i>Lindera melissifolia</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1279	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

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Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

-
1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\) list](#) or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where ~~birders and the general public have sighted birds in and around~~ your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, ~~additional maps and models detailing the relative occurrence and abundance of bird species on your list are available.~~ Links to ~~additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found~~ [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Kestrel <i>Falco sparverius paulus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9587	Breeds Apr 1 to Aug 31
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31

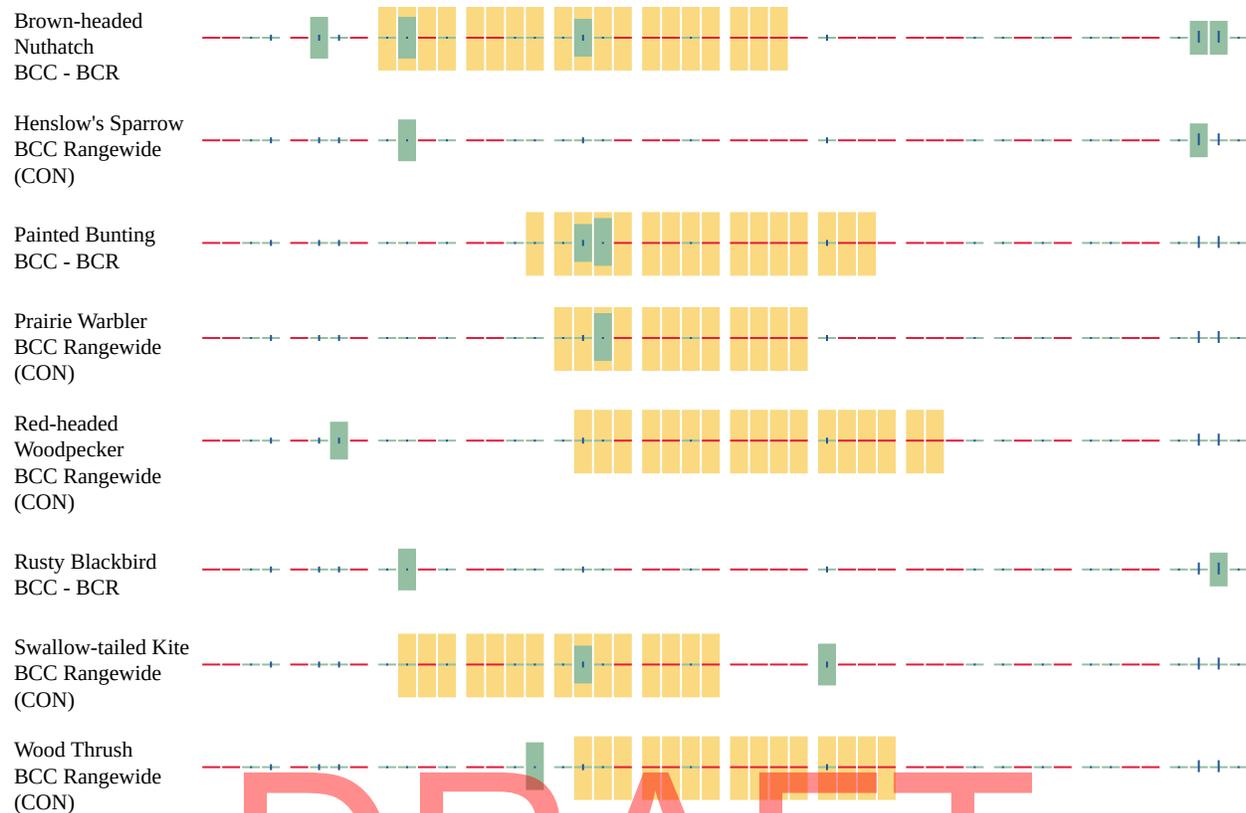
NAME	BREEDING SEASON
Brown-headed Nuthatch <i>Sitta pusilla</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 1 to Jul 15
Henslow's Sparrow <i>Ammodramus henslowii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3941	Breeds elsewhere
Painted Bunting <i>Passerina ciris</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 25 to Aug 15
Prairie Warbler <i>Dendroica discolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Swallow-tailed Kite <i>Elanoides forficatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8938	Breeds Mar 10 to Jun 30
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.



Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the [Probability of Presence Summary](#) and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
 2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
 3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles)
-

potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

LAKE

- [Lacustrine](#)

FRESHWATER POND

- [Palustrine](#)

RIVERINE

- [Riverine](#)

DRAFT

IPaC User Contact Information

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Phone: 8037790311

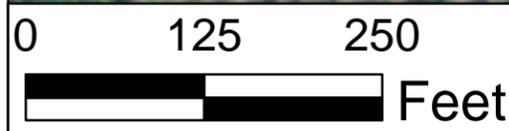
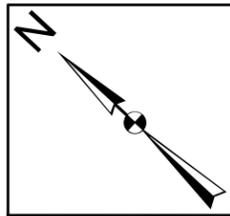
Lead Agency Contact Information

Lead Agency: Department of Transportation

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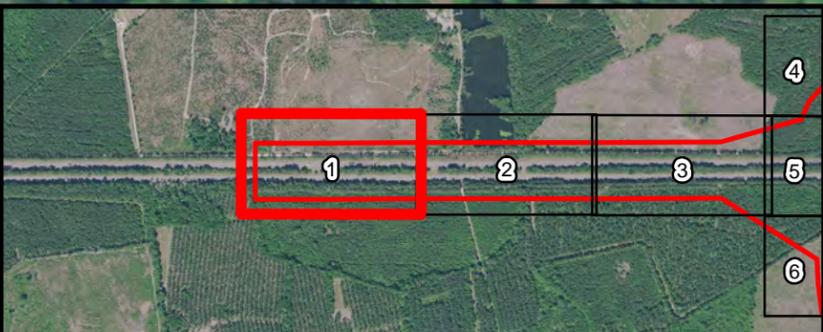
Attachment 2

Jurisdictional Determination Figures

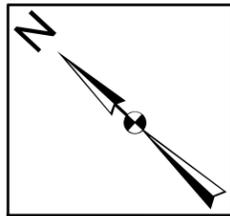


Legend

-  Photo Point
-  Data Point
-  Pipe
-  Non-aquatic Linear Feature (Ditch)
-  Project Study Area (483.39 Acres)



<p>I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677</p>	
<p>Source: USDA Orthoimagery 2021</p>	<p>AQUATIC RESOURCES</p> <p>Drawn By: RHH QA/QC: KLM November 2022</p>
<p>DRAFT Figure 5 Page 1 of 33</p>	



Non-wetlands waters 2 (Pond)(0.52 Acres)
33.332062 -80.561006

Non-aquatic Linear Feature 2 (Ditch)
33.331083 -80.560884

NWW-2

NAD-2A

I-26

DRAFT

Non-aquatic Linear Feature 11 (Ditch)
33.328299 -80.558389

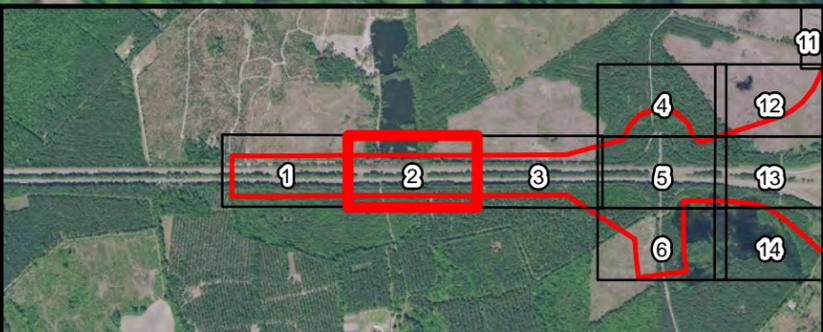
UDP1

NAD-2B

Non-aquatic Linear Feature 2 (Ditch)
33.331083 -80.560884



- Legend**
- Photo Point
 - Data Point
 - Pipe
 - Non-aquatic Linear Feature (Ditch)
 - Non-wetlands waters (Open Water)
 - Project Study Area (483.39 Acres)



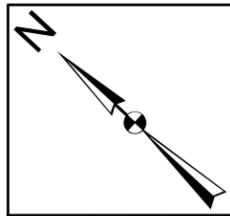
I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

AQUATIC RESOURCES

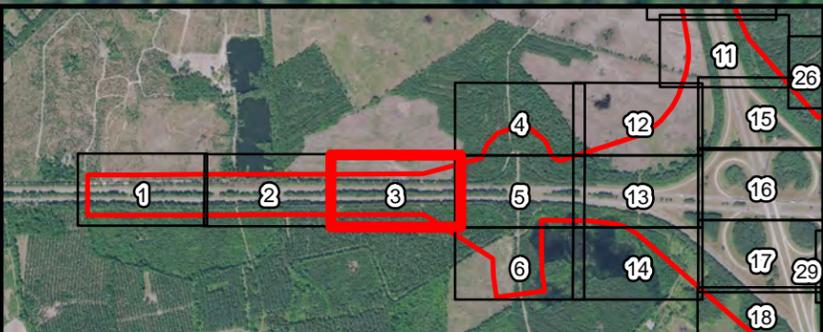
Drawn By: RHH
QA/QC: KLM
November 2022

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Figure 5
Page 2 of 33

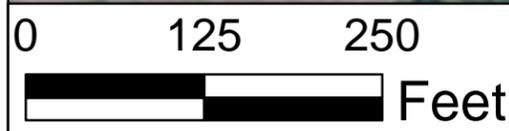
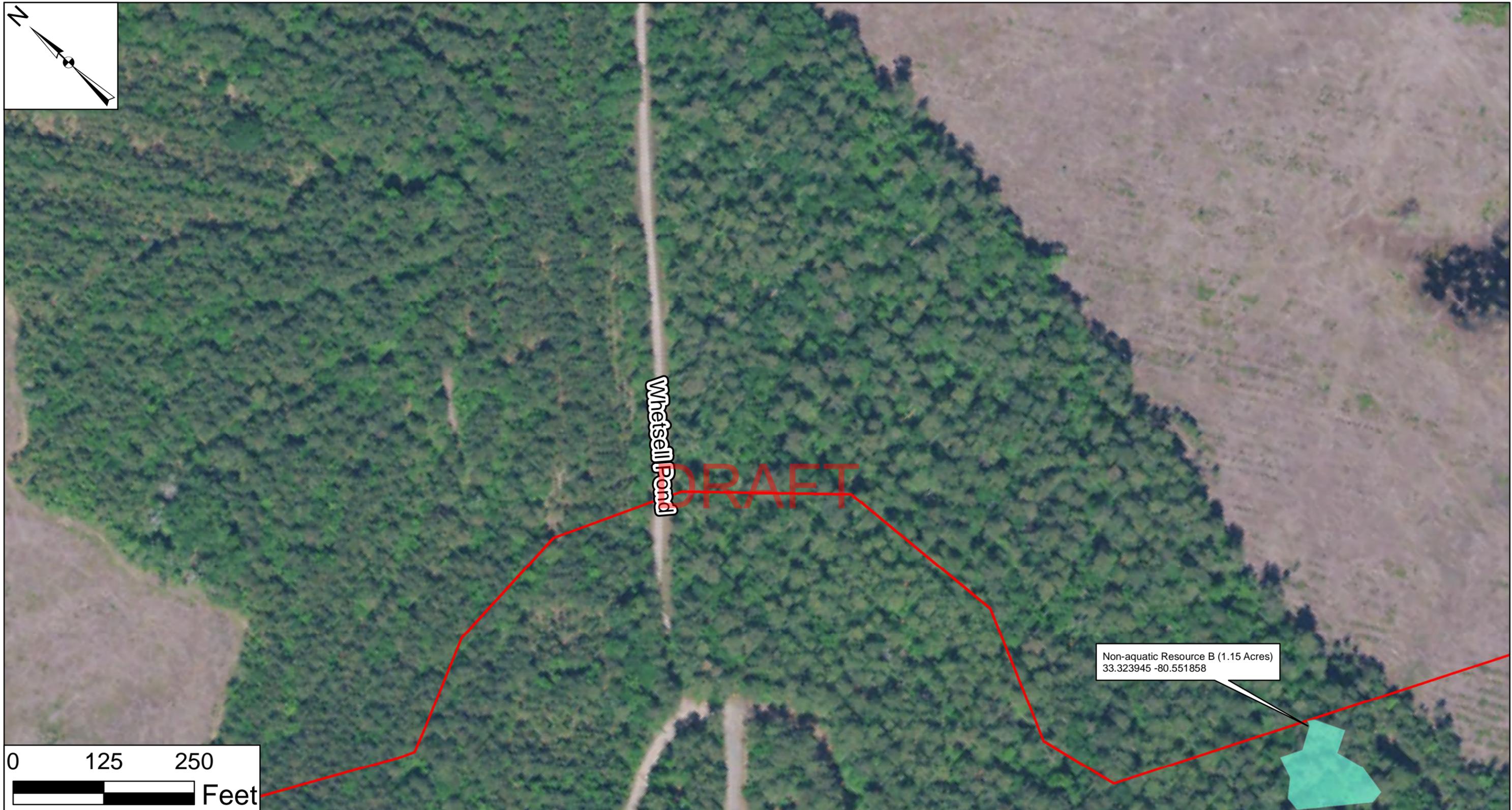
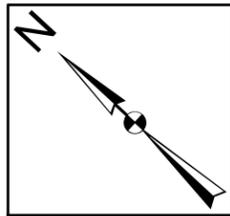


Legend

- Photo Point
- Data Point
- Wetland
- Pipe
- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)

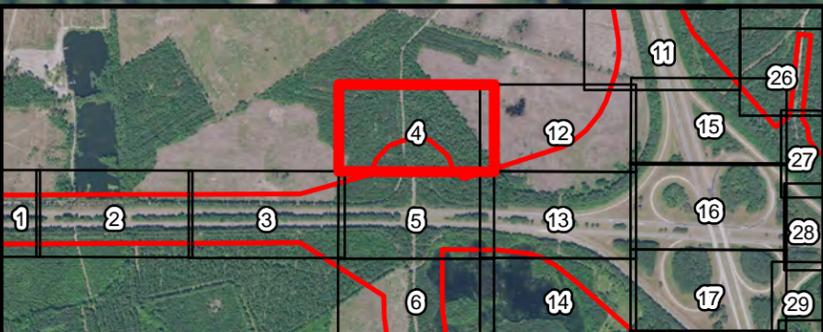


I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 3 of 33



Legend

- Non-aquatic Resource
- Project Study Area (483.39 Acres)



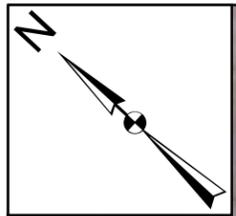
I-26 and I-95 Interchange Improvement
 Orangeburg and Dorchester Counties
 SCDOT P038677

Source:
 USDA Orthoimagery
 2021

AQUATIC RESOURCES

Drawn By: RHH
 QA/QC: KLM
 November 2022

DRAFT
 Figure 5
 Page 4 of 33



Non-aquatic Linear Feature 11(Ditch)
33.328299 -80.558389

Wetland A (PFO)(3.94 Acres)
33.325598 -80.556297

Non-wetlands waters 3 (Pond)(0.48 Acres)
33.3233 -80.553627

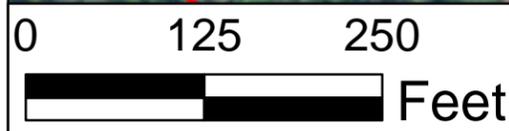
Non-aquatic Resource B (1.15 Acres)
33.323945 -80.551858

Non-aquatic Resource B (1.15 Acres)
33.323945 -80.551858

Non-wetlands waters 3 (Pond)(0.75 Acres)
33.322237; -80.552631

Non-wetlands waters 3 (Pond)(1.44 Acres)
33.323645 -80.55518

Wetland C (PEM)(0.06 Acres)
33.322812 -80.553262



Legend

- Photo Point
- Data Point
- Pipe
- Wetland
- Non-aquatic Linear Feature (Ditch)
- Non-aquatic Resource
- Non-wetlands waters (Open Water)
- Project Study Area (483.39 Acres)



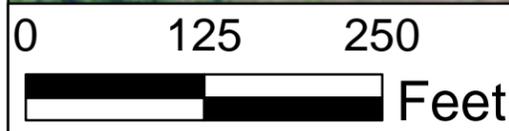
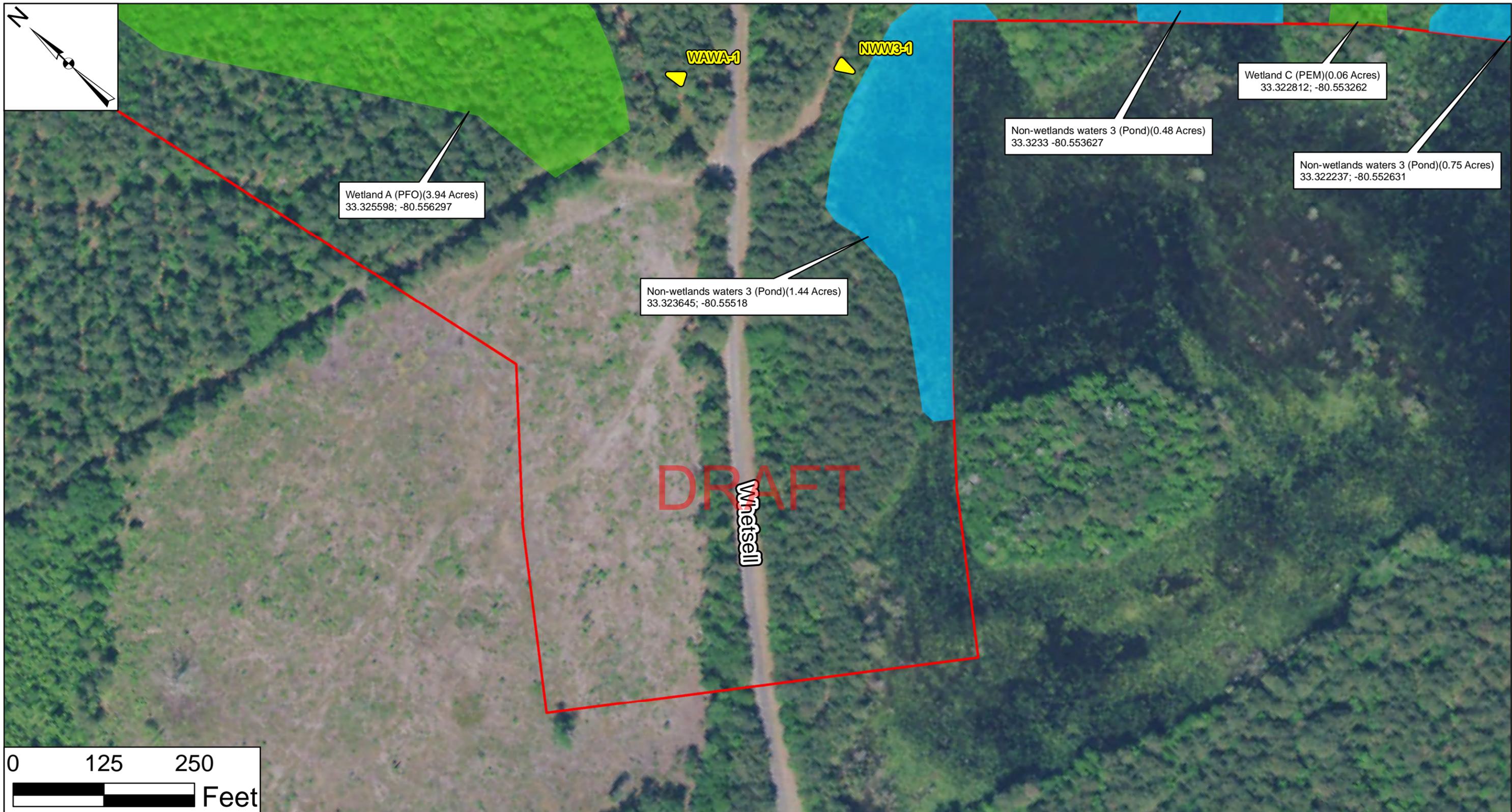
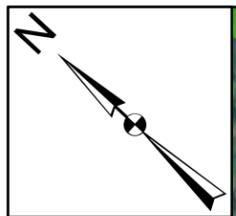
I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

AQUATIC RESOURCES

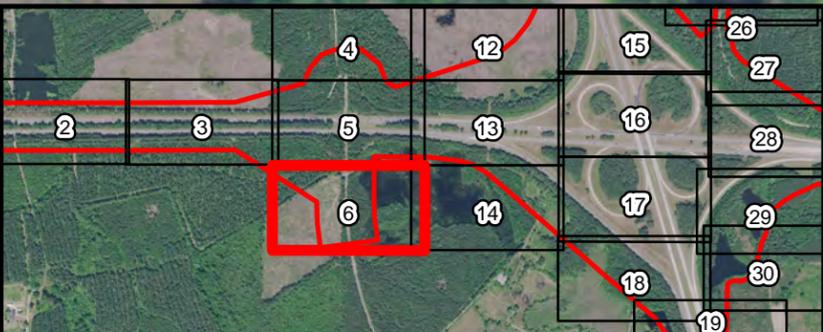
Drawn By: RHH
QA/QC: KLM
November 2022

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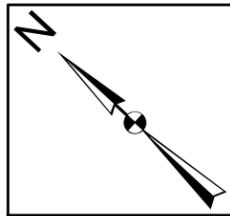


Legend

- Photo Point
- Wetland
- Non-wetlands waters (Open Water)
- Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 6 of 33

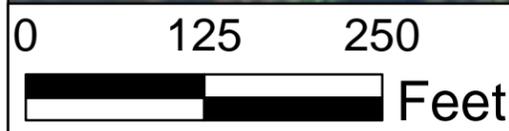


No Aquatic Resources Identified within Mapped Limits

Non-aquatic Linear Feature 8 (Ditch)
33.320018; -80.544755

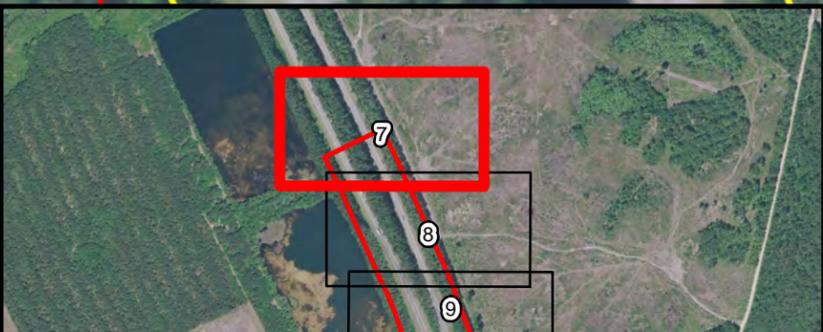
Non-aquatic Linear Feature 10 (Ditch)
33.326773 -80.542816

DRAFT



Legend

- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)



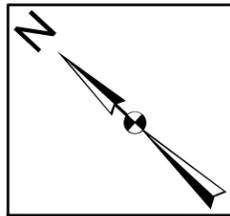
I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

AQUATIC RESOURCES

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November 2022

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No Aquatic Resources Identified within Mapped Limits

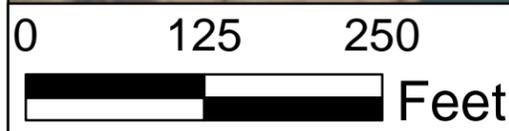
Non-aquatic Linear Feature 8 (Ditch)
33.320018; -80.544755

Non-aquatic Linear Feature 10 (Ditch)
33.326773 -80.542816

DRAFT

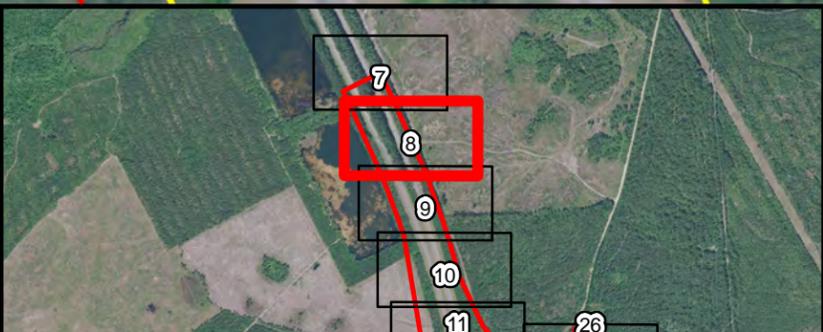
I-95

I-95



Legend

-  Non-aquatic Linear Feature (Ditch)
-  Project Study Area (483.39 Acres)



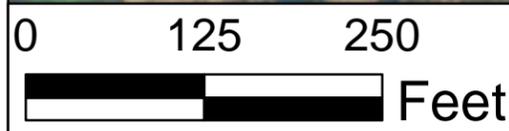
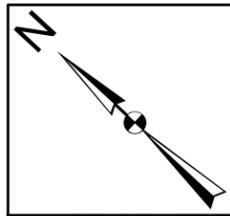
I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

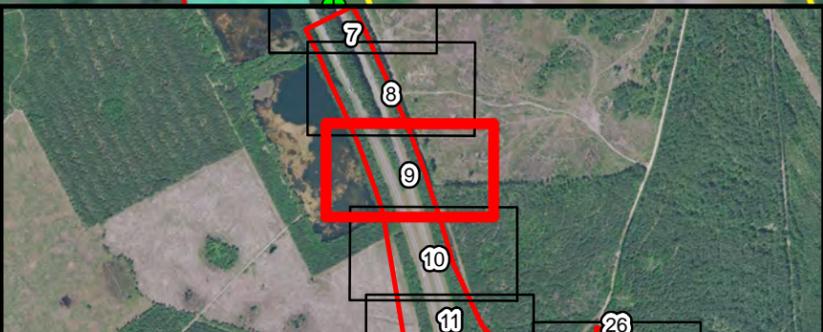
AQUATIC RESOURCES

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November 2022

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- Legend**
- Photo Point
 - Data Point
 - Non-aquatic Resource
 - Non-aquatic Linear Feature (Ditch)
 - Project Study Area (483.39 Acres)



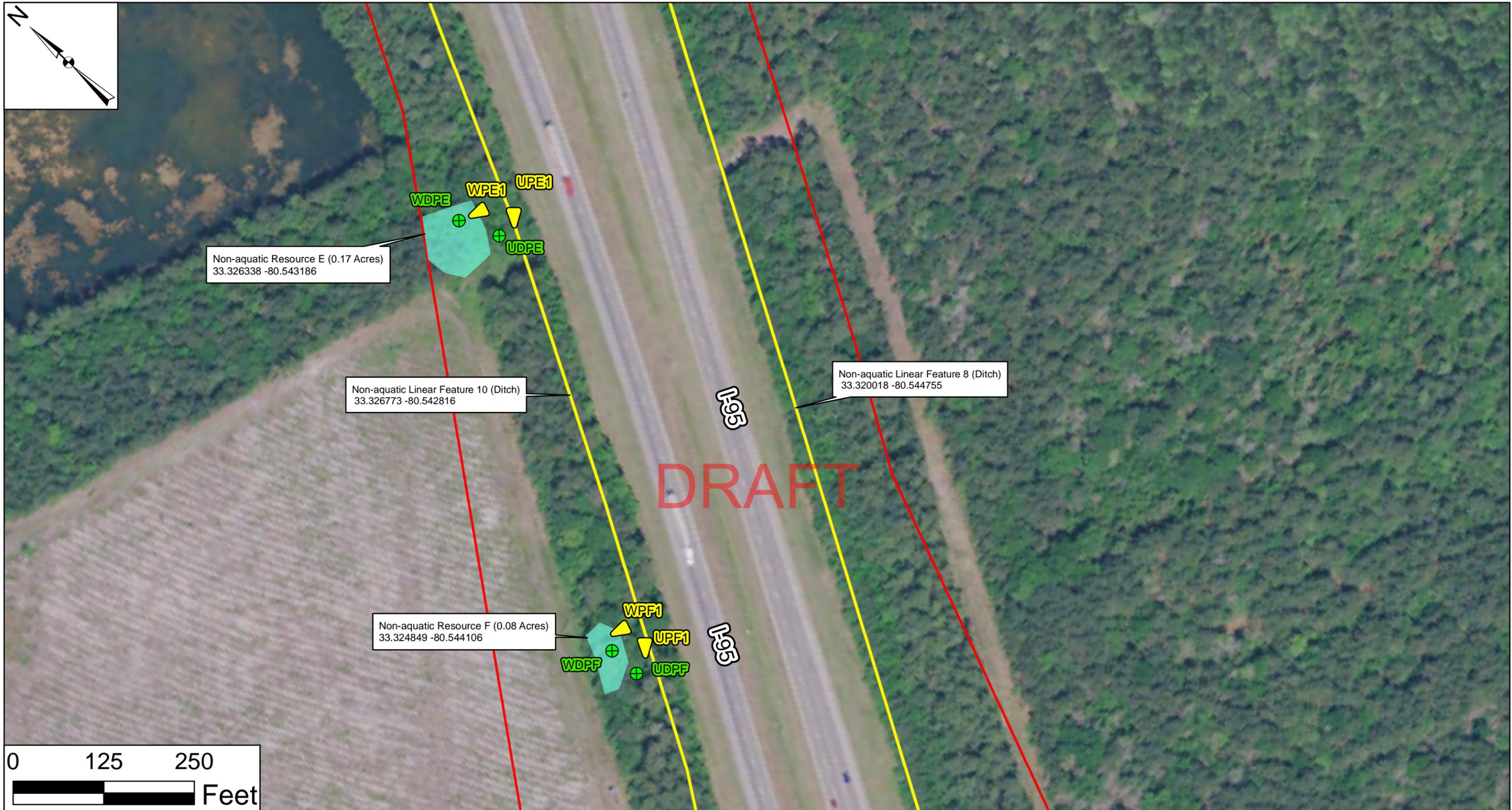
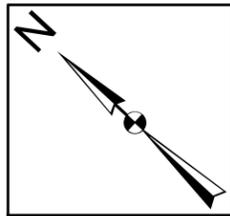
I-26 and I-95 Interchange Improvement
 Orangeburg and Dorchester Counties
 SCDOT P038677

Source:
 USDA Orthoimagery
 2021

AQUATIC RESOURCES

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 QA/QC: KLM
 November 2022

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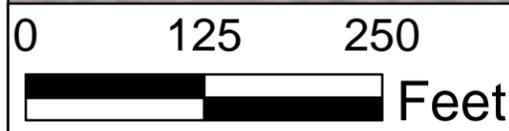


Non-aquatic Resource E (0.17 Acres)
33.326338 -80.543186

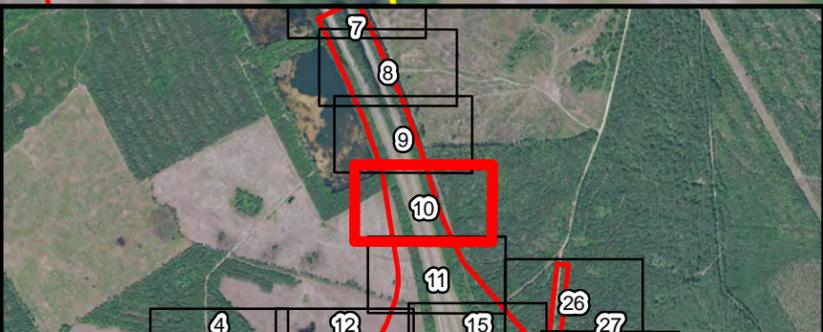
Non-aquatic Linear Feature 10 (Ditch)
33.326773 -80.542816

Non-aquatic Linear Feature 8 (Ditch)
33.320018 -80.544755

Non-aquatic Resource F (0.08 Acres)
33.324849 -80.544106



- Legend**
- Photo Point
 - Data Point
 - Non-aquatic Resource
 - Non-aquatic Linear Feature (Ditch)
 - Project Study Area (483.39 Acres)



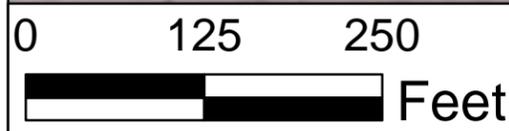
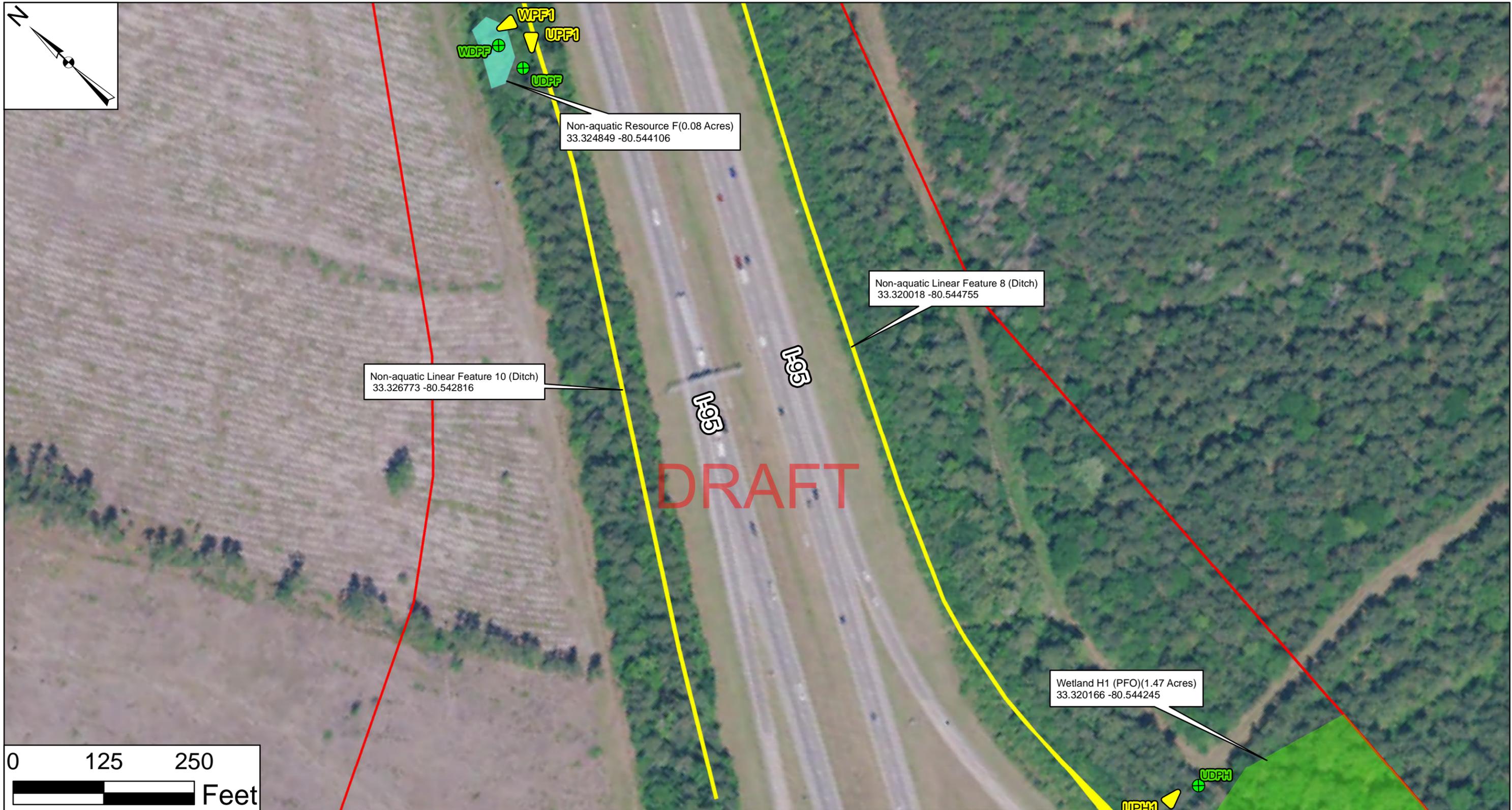
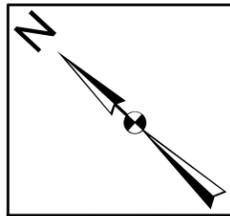
I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

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November 2022

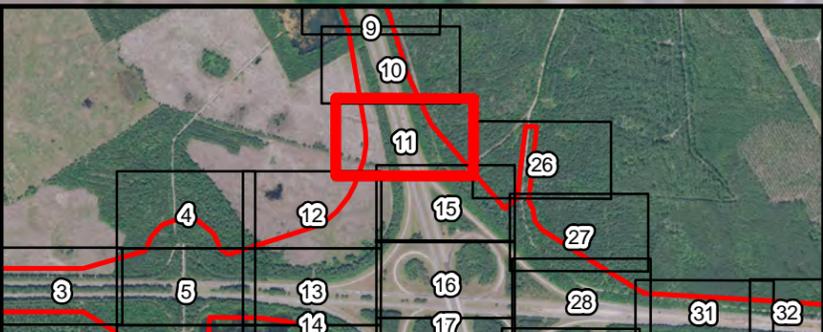
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- Legend**
- Photo Point
 - Data Point
 - Wetland
 - Non-aquatic Resource
 - Non-aquatic Linear Feature (Ditch)
 - Project Study Area (483.39 Acres)



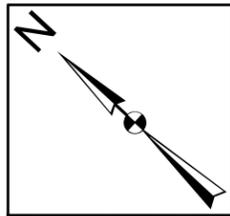
I-26 and I-95 Interchange Improvement
 Orangeburg and Dorchester Counties
 SCDOT P038677

Source:
 USDA Orthoimagery
 2021

AQUATIC RESOURCES

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 November 2022

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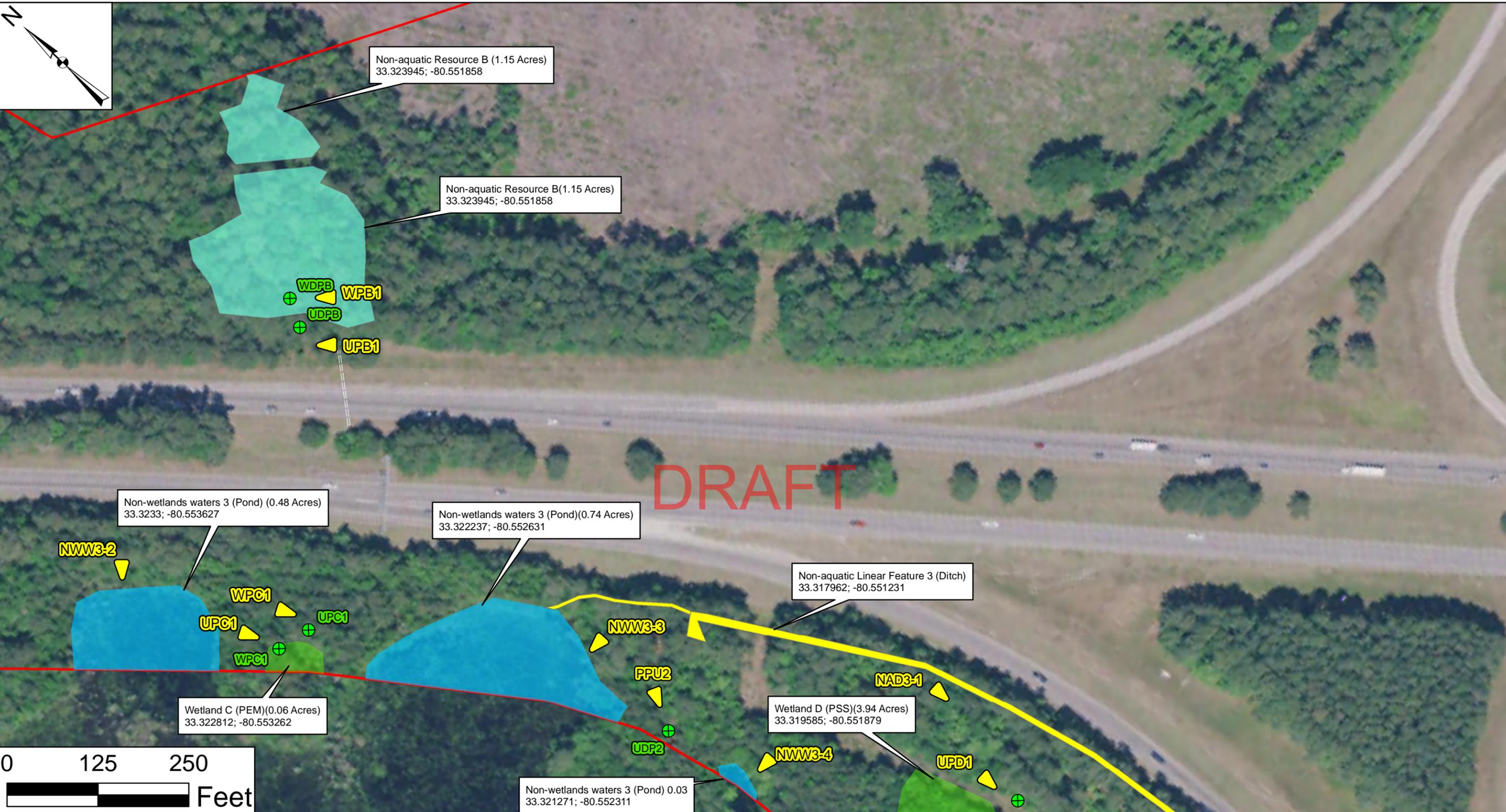
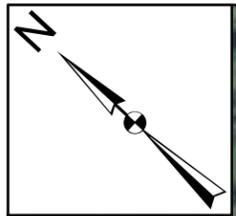


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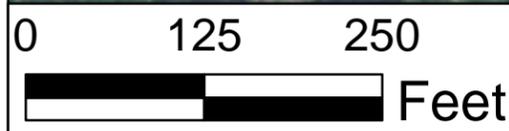
	Non-aquatic Resource
	Non-aquatic Linear Feature (Ditch)
	Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 12 of 33



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Legend

- Photo Point
- Data Point
- Wetland
- Non-aquatic Resource
- Non-aquatic Linear Feature (Ditch)
- Pipe
- Non-wetlands waters (Open Water)
- Project Study Area (483.39 Acres)

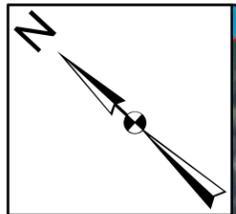


I-26 and I-95 Interchange Improvement
 Orangeburg and Dorchester Counties
 SCDOT P038677

Source:
 USDA Orthoimagery
 2021

AQUATIC RESOURCES
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 November 2022

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Wetland C (PEM)(0.06 Acres)
33.322812; -80.553262

Non-wetlands waters 3 (Pond)(0.75 Acres)
33.322237; -80.552631

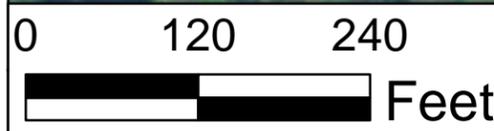
Non-wetlands waters 3 (Pond) (0.03 Acres)
33.321271; -80.552311

Wetland D (PSS)(3.94 Acres)
33.319585; -80.551879

Non-aquatic Linear Feature 3 (Ditch)
33.317962 -80.551231

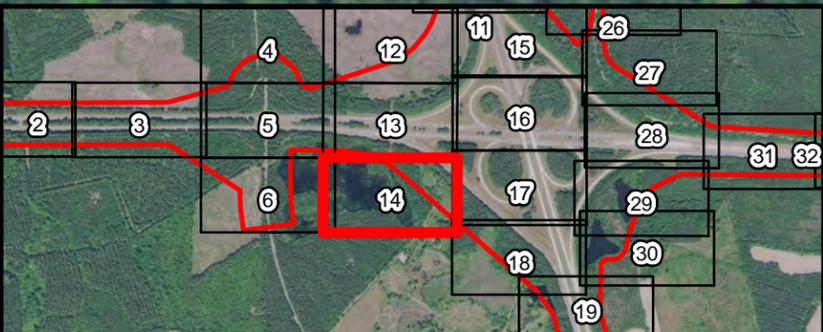
Non-wetlands waters 4 (Pond)(1.28 Acres)
33.317261 -80.551847

DRAFT

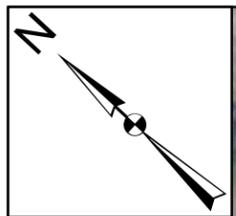


Legend

- Photo Point
- Data Point
- Wetland
- Non-aquatic Linear Feature (Ditch)
- Non-wetlands waters (Open Water)
- Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 14 of 33



Non-aquatic Linear Feature 10 (Ditch)
33.326773 -80.542816

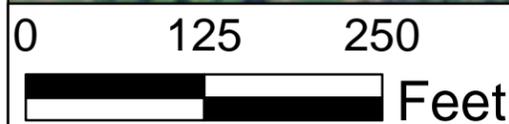
Non-aquatic Linear Feature 8 (Ditch)
33.320018; -80.544755

Wetland H1 (PSS)(1.47 Acres)
33.320166; -80.544245

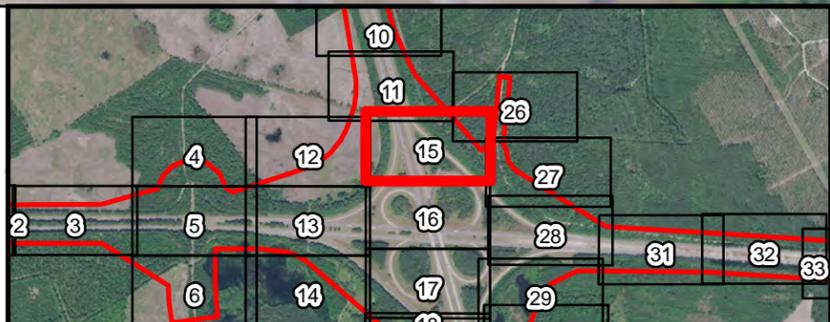
Wetland H2 (PFO)(0.91 Acres)
33.320524; -80.545503

Non-aquatic Resource X1 (1.67 Acres)
33.318789; -80.545926

Non-wetlands waters 1 (Stream)(0.53 Acres; 1,393.52 LF)
33.317945; -80.544561



- Legend**
- Data Point
 - Photo Point
 - Pipe
 - Non-wetlands waters (Stream)
 - Wetland
 - Non-aquatic Resource
 - Non-aquatic Linear Feature (Ditch)
 - Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

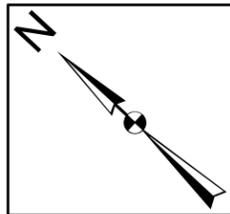
AQUATIC RESOURCES

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November 2022

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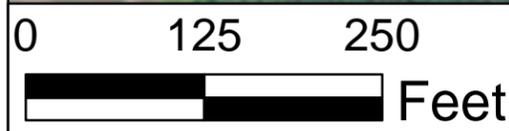
Non-wetlands waters 1 (Stream)(0.53 Acres, 1,393.52 LF)
33.317945; -80.544561

Non-aquatic Resource X1 (1.67 Acres)
33.318789; -80.545926

Non-aquatic Resource X2 (0.64 Acres)
33.316856; -80.545253

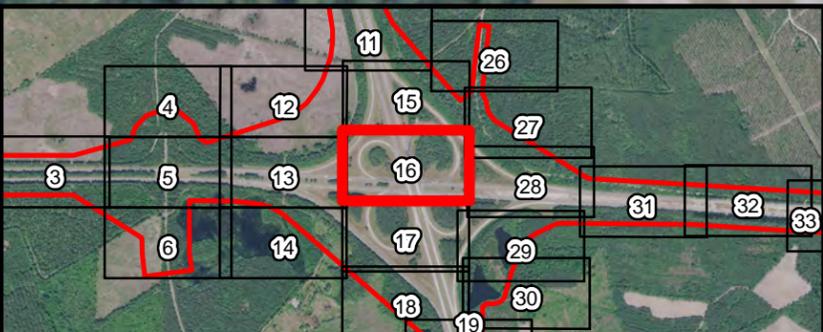
Non-aquatic Linear Feature (Median Ditch)
33.312874; -80.542486

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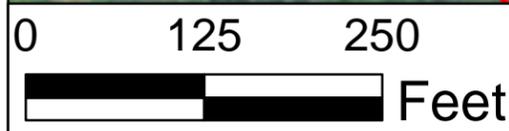
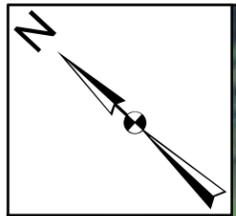


Legend

- Photo Point
- Data Point
- Non-wetlands waters (Stream)
- Pipe
- Non-aquatic Resource
- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)

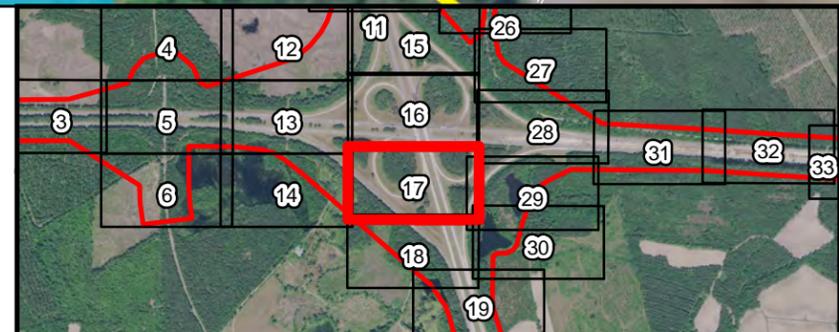


<p>I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677</p>		
<p>Source: USDA Orthoimagery 2021</p>	<p>AQUATIC RESOURCES</p> <p>Drawn By: RHH QA/QC: KLM November 2022</p>	<p>DRAFT Figure 5 Page 16 of 33</p>



Legend

	Photo Point		Pipe
	Data Point		
	Wetland		
	Non-aquatic Resource		
	Non-aquatic Resource (Pond)		
	Non-aquatic Linear Feature (Ditch)		
	Non-wetlands waters (Open Water)		
	Project Study Area (483.39 Acres)		



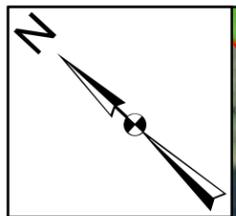
I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source: USDA Orthoimagery
2021

AQUATIC RESOURCES

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Wetland D (PSS)(3.94 Acres)
33.319585; -80.551879

WPD2

NWW4-1

Non-aquatic Linear Feature 8 (Ditch)
33.213769; -80.544023

NAD7-1

Non-aquatic Linear Feature 12 (Median Ditch)
33.312013; -80.55227

Non-aquatic Resource 8 (Pond) (3.26 Acres)
33.314543; -80.549201

NWW8-1

Non-wetlands waters 4 (Pond)(1.28 Acres)
33.317261; -80.551847

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Non-aquatic Linear Feature 4 (Ditch)
33.315501; -80.551601

UDP5

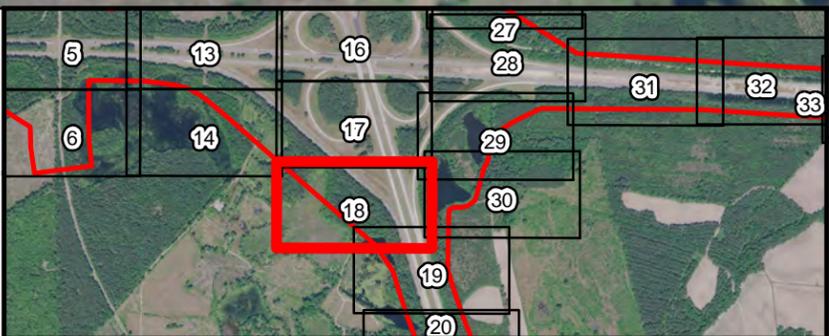
UDP4 NWW5-1

Non-wetlands waters 5 (Pond) (0.98 Acres)
33.314564; -80.551988



Legend

- Photo Point
- Data Point
- Pipe
- Non-aquatic Resource (Pond)
- Wetland
- Non-aquatic Linear Feature (Ditch)
- Non-wetlands waters (Open Water)
- Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

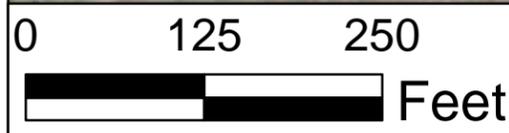
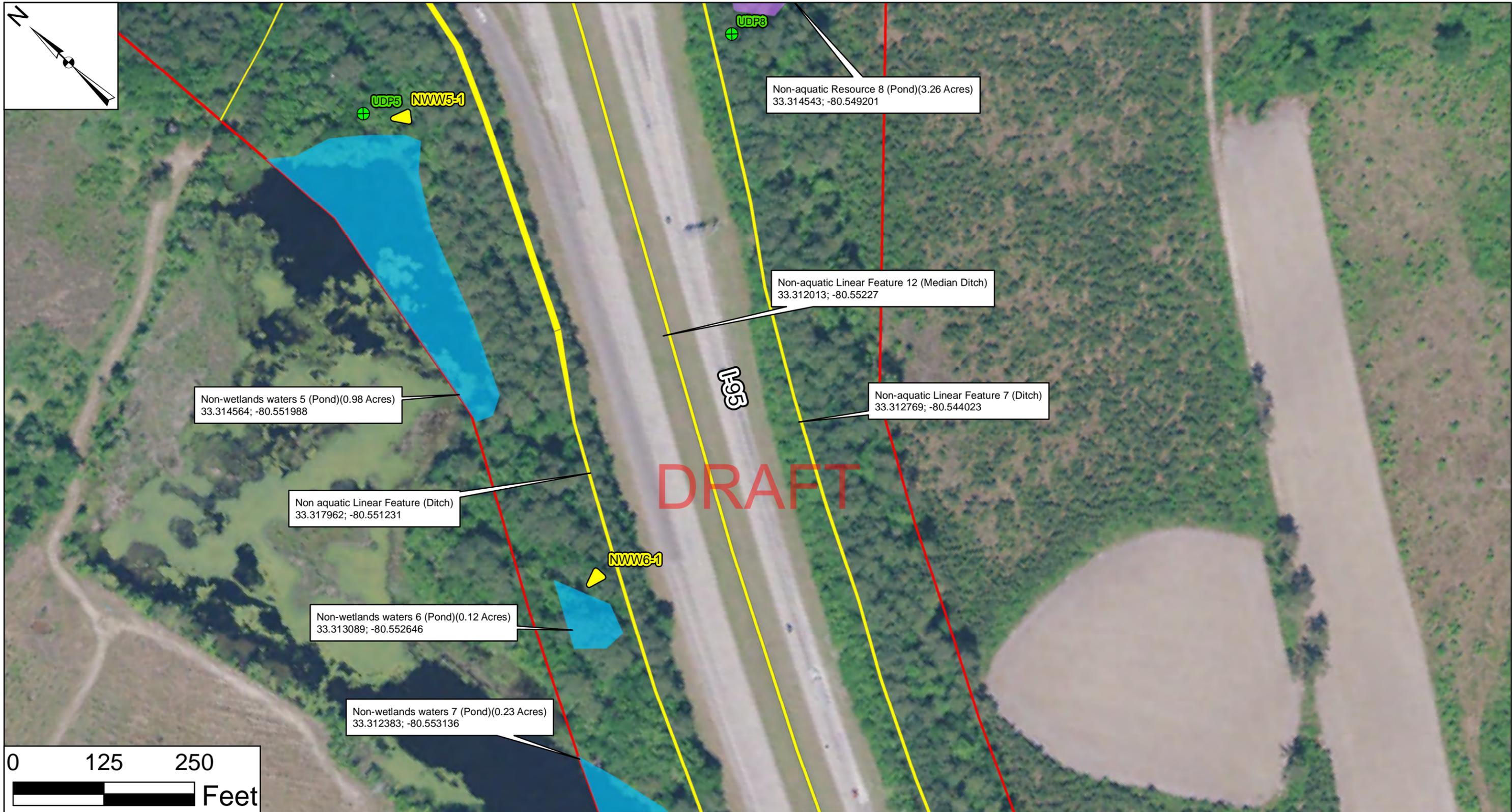
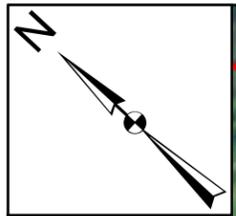
AQUATIC RESOURCES

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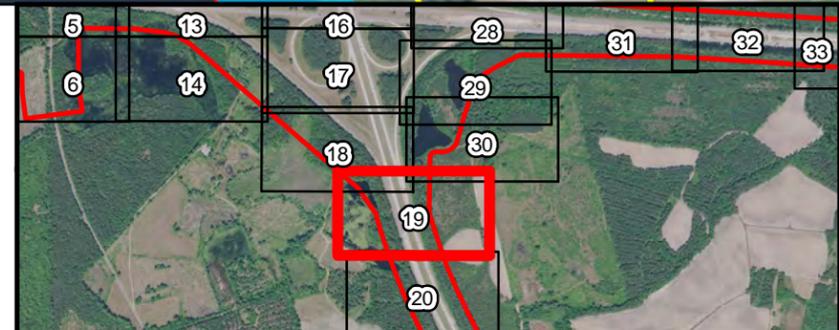
Figure 5

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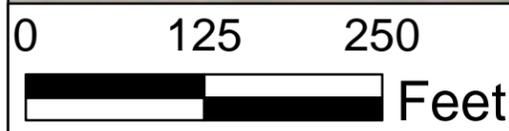
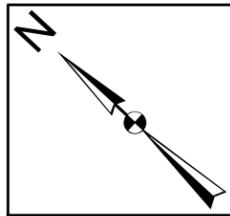


Legend

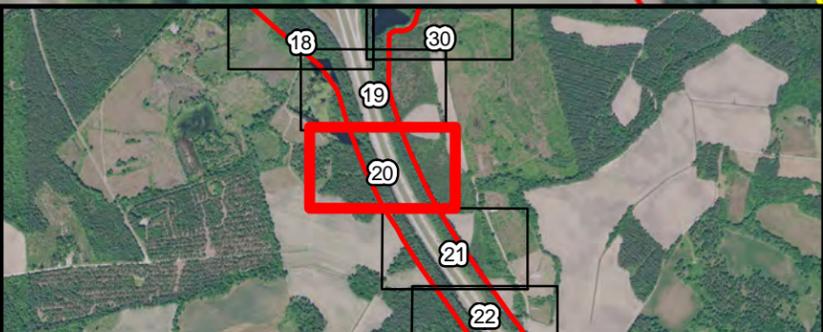
- Photo Point
- Data Point
- Non-aquatic Resource (Pond)
- Non-aquatic Linear Feature (Ditch)
- Non-wetlands waters (Open Water)
- Project Study Area (483.39 Acres)



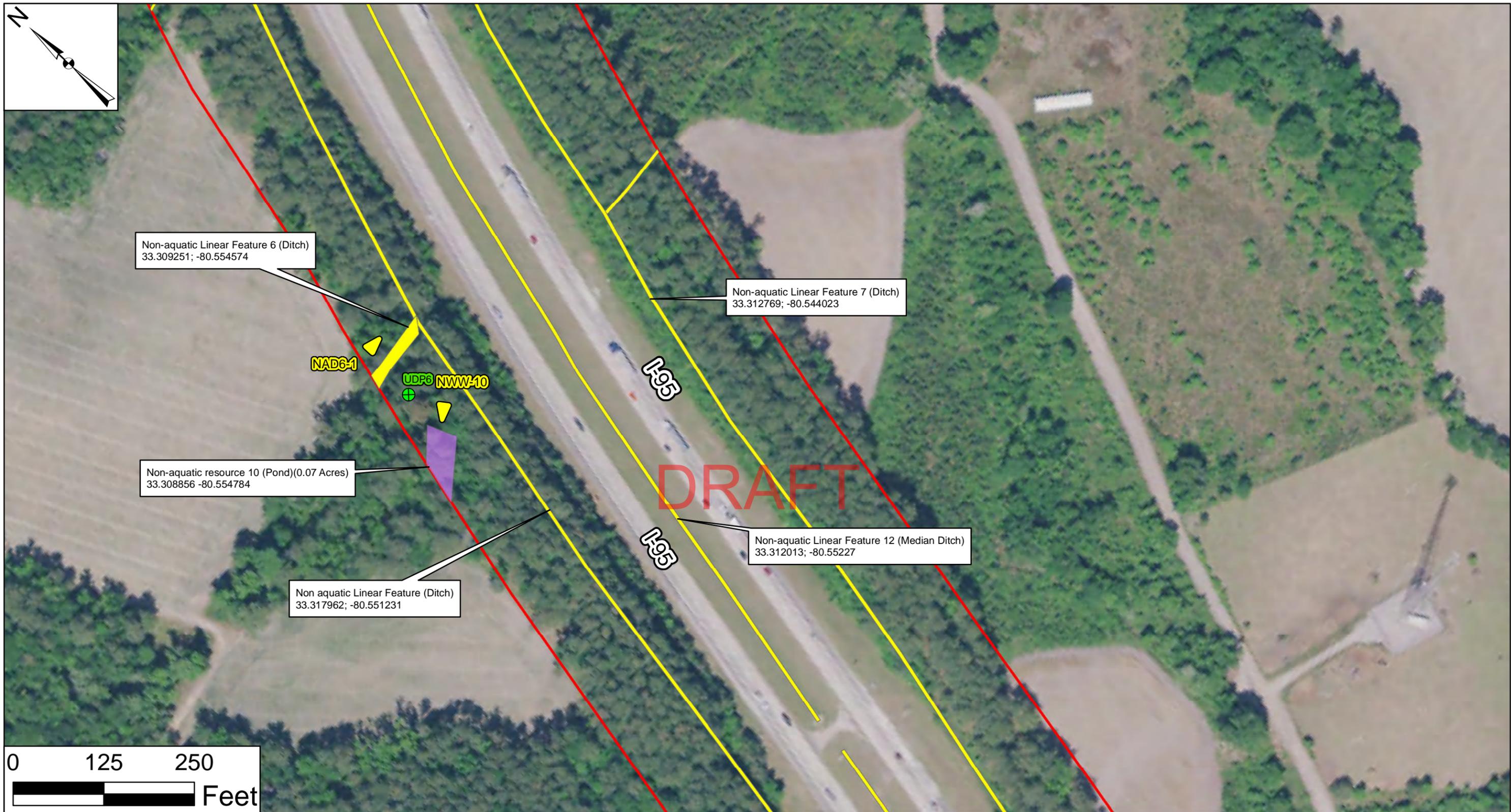
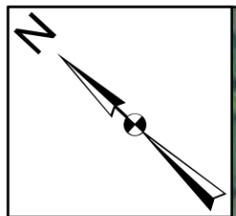
I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 19 of 33



Legend	
	Non-aquatic Linear Feature (Ditch)
	Non-wetlands waters (Open Water)
	Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 20 of 33



Non-aquatic Linear Feature 6 (Ditch)
33.309251; -80.554574

Non-aquatic Linear Feature 7 (Ditch)
33.312769; -80.544023

Non-aquatic resource 10 (Pond)(0.07 Acres)
33.308856 -80.554784

Non-aquatic Linear Feature 12 (Median Ditch)
33.312013; -80.55227

Non aquatic Linear Feature (Ditch)
33.317962; -80.551231



Legend	
	Photo Point
	Data Point
	Non-aquatic Linear Feature (Ditch)
	Non-aquatic Resource (Pond)
	Project Study Area (483.39 Acres)

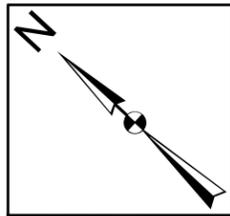


I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
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No Aquatic Resources within Mapped Extents

Non-aquatic Linear Feature 7 (Ditch)
33.312769; -80.544023

Non aquatic Linear Feature (Ditch)
33.317962; -80.551231

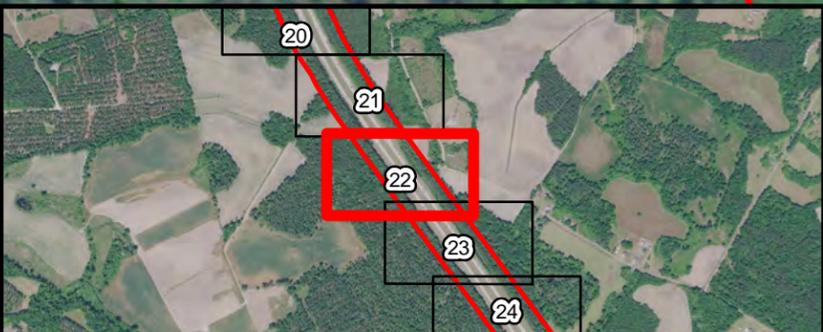
Non-aquatic Linear Feature 13(Median Ditch)
33.309413; -80.53869

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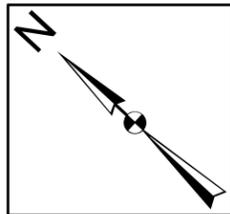

Legend

- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 22 of 33
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No Aquatic Resources within Mapped Extents

Non-aquatic Linear Feature 13(Median Ditch)
33.309413; -80.53869

Non-aquatic Linear Feature 7 (Ditch)
33.312769; -80.544023

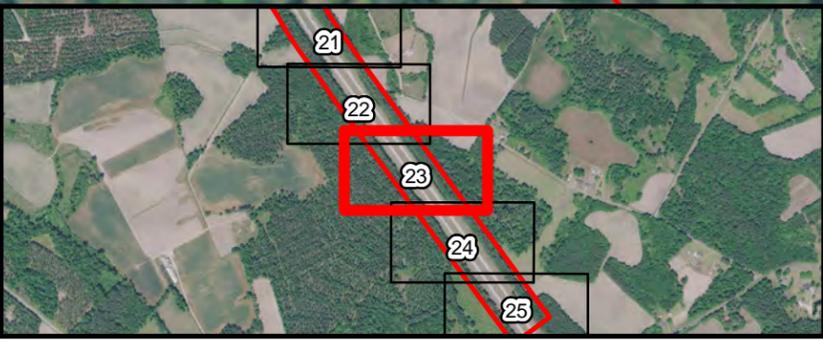
I-95

I-95

DRAFT



Legend
 Non-aquatic Linear Feature (Ditch)
 Project Study Area (483.39 Acres)



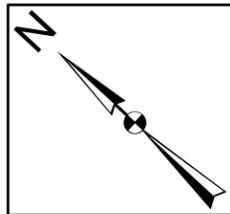
I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

AQUATIC RESOURCES

Drawn By: RHH
QA/QC: KLM
November 2022

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No Aquatic Resources within Mapped Extents

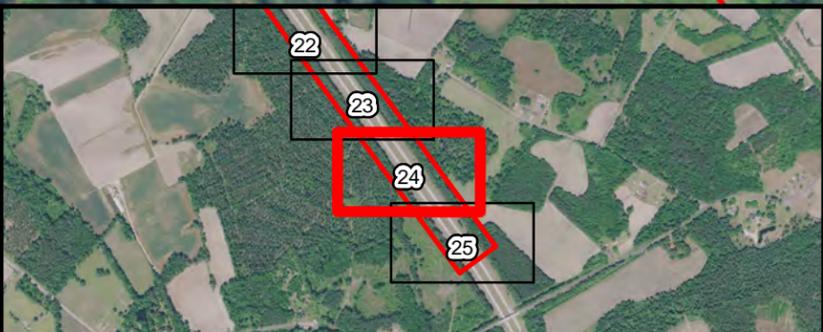
I-95

DRAFT

I-95



Legend
Project Study Area (483.39 Acres)

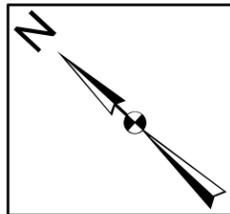


I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

AQUATIC RESOURCES
Drawn By: RHH
QA/QC: KLM
November 2022

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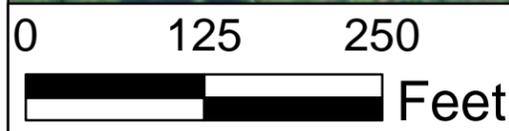


No Aquatic Resources within Mapped Extents

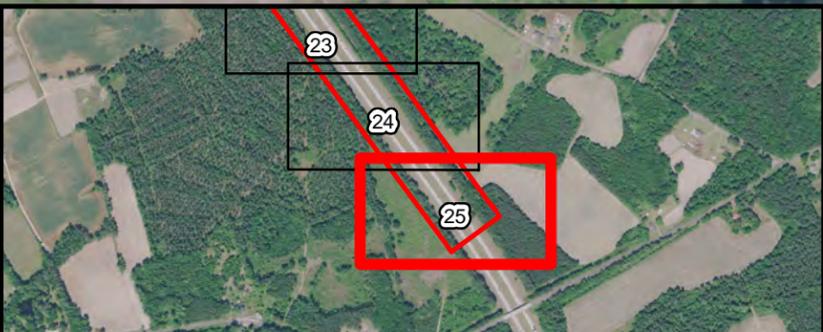
I-95

DRAFT

I-95



- Legend**
- Non-aquatic Linear Feature (Ditch)
 - Project Study Area (483.39 Acres)



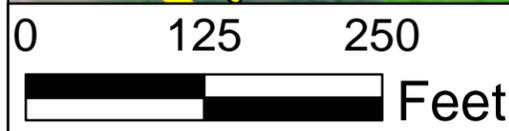
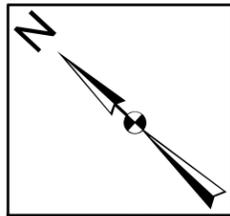
I-26 and I-95 Interchange Improvement
 Orangeburg and Dorchester Counties
 SCDOT P038677

Source:
 USDA Orthoimagery
 2021

AQUATIC RESOURCES

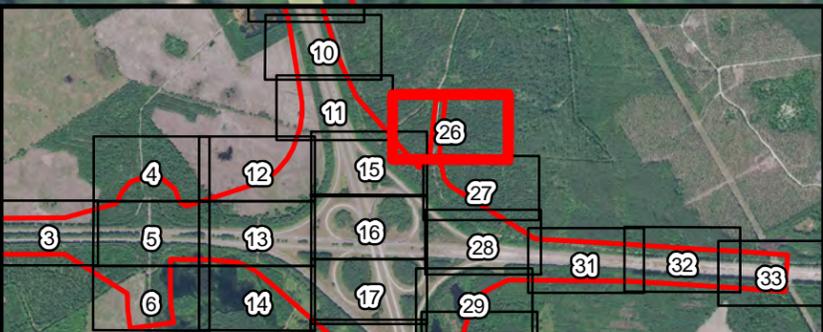
Drawn By: RHH
 QA/QC: KLM
 November 2022

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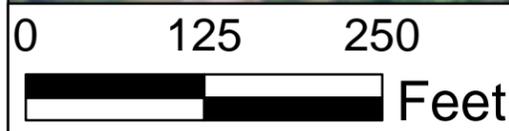
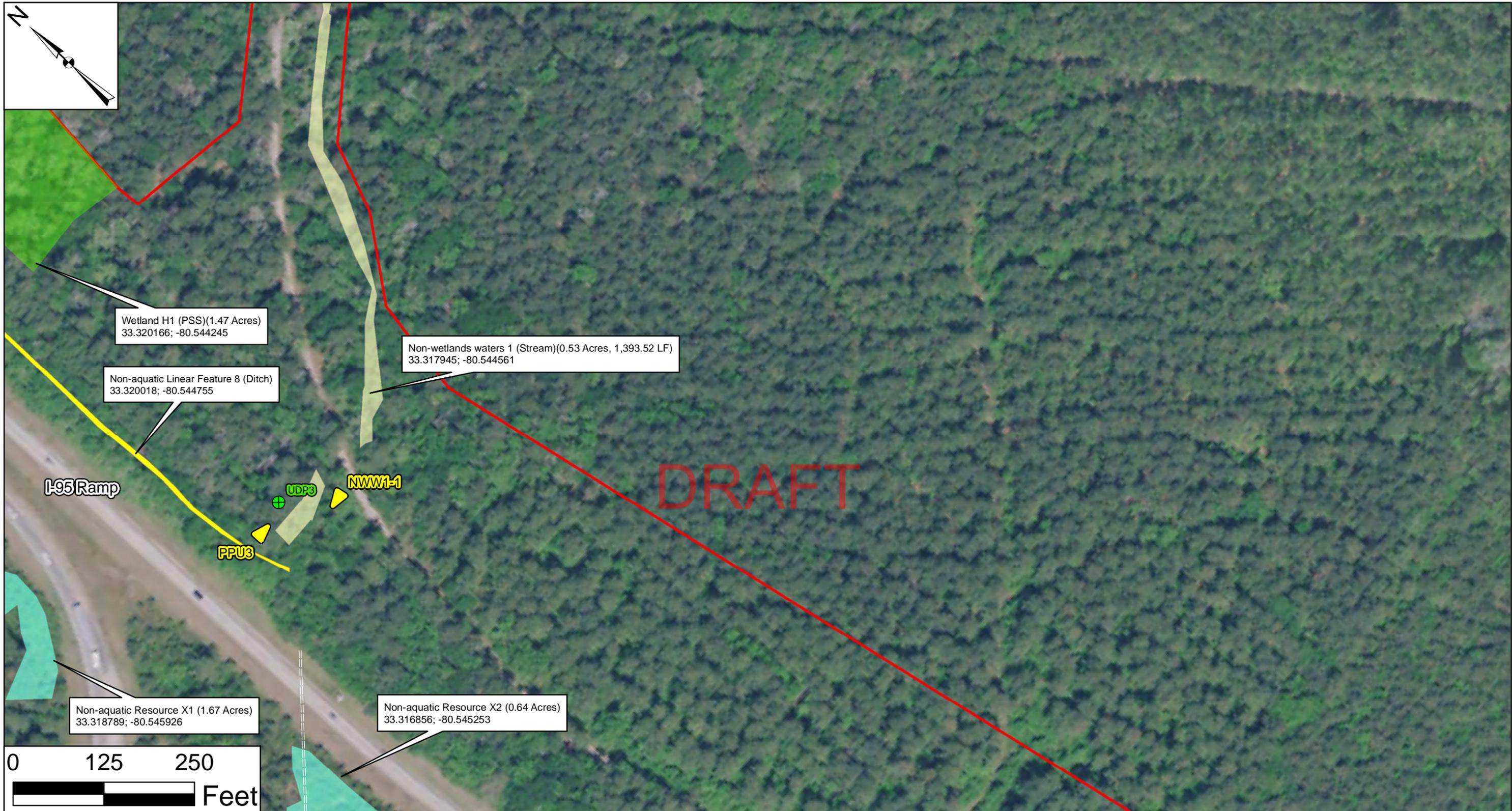
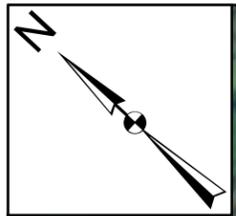


Legend

- Photo Point
- Wetland
- Non-wetlands waters (Stream)
- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)

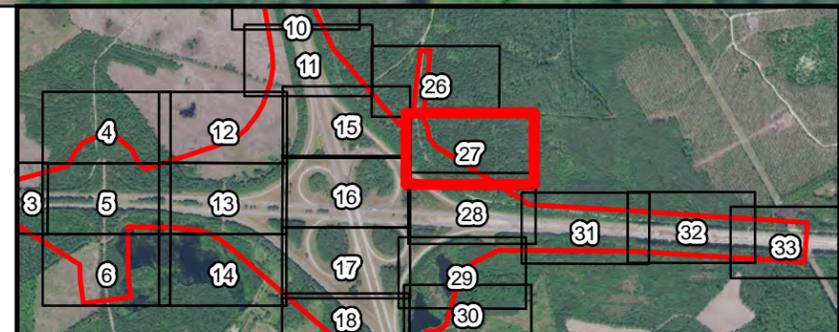


I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 26 of 33

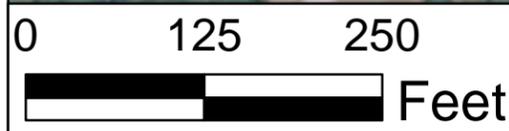
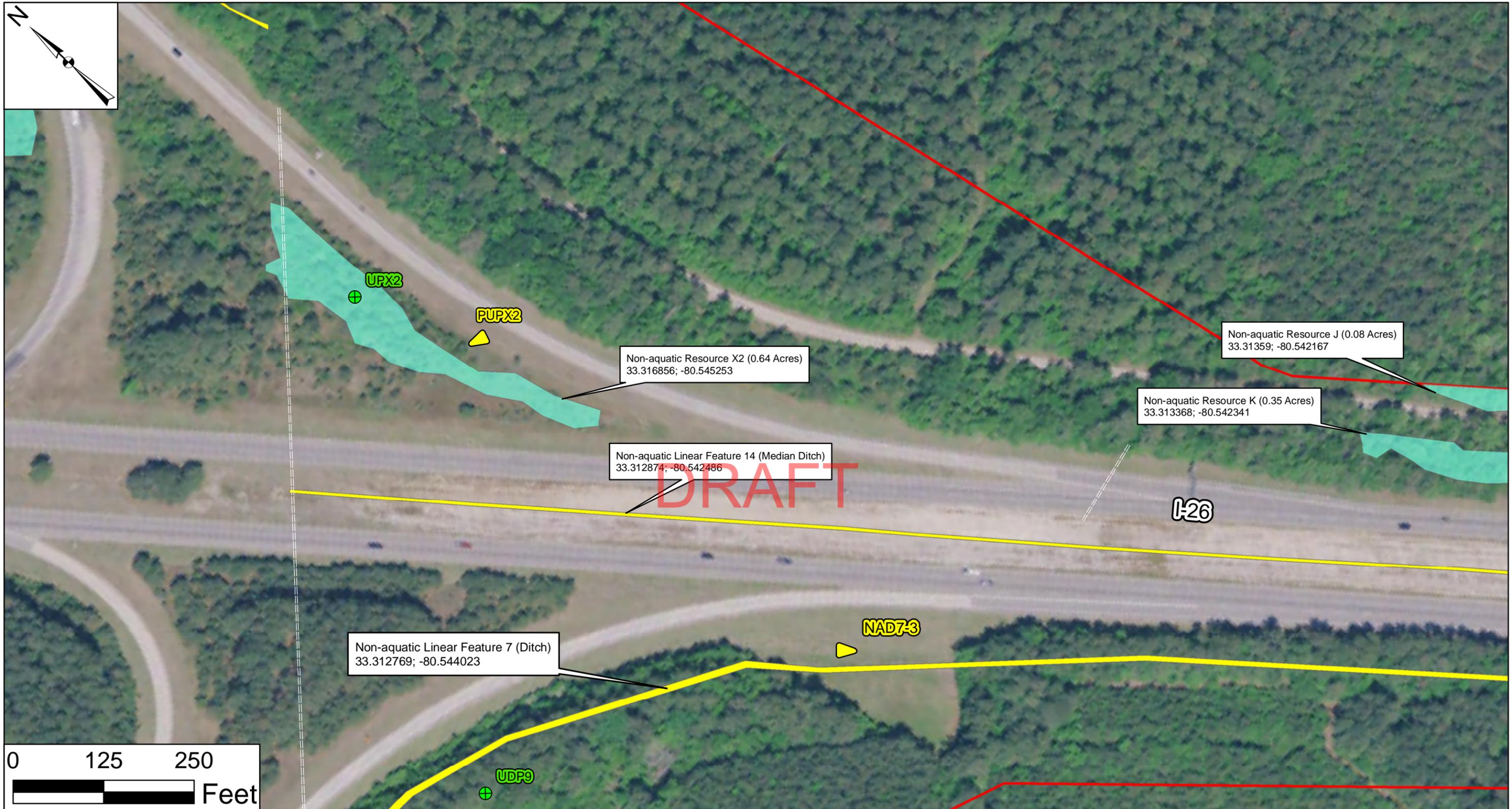
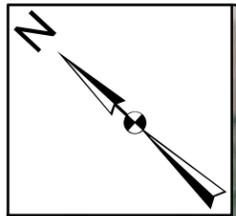


Legend

- Photo Point
- Data Point
- Pipe
- Non-wetlands waters (Stream)
- Wetland
- Non-aquatic Resource
- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)

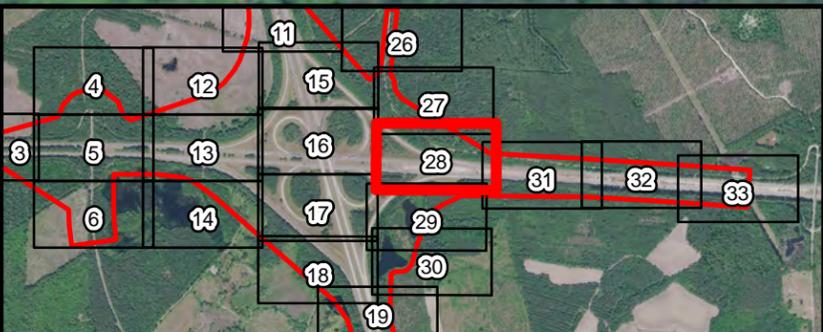


I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 27 of 33

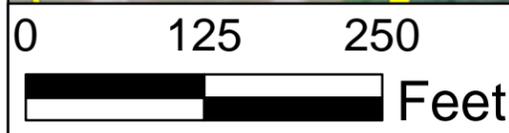
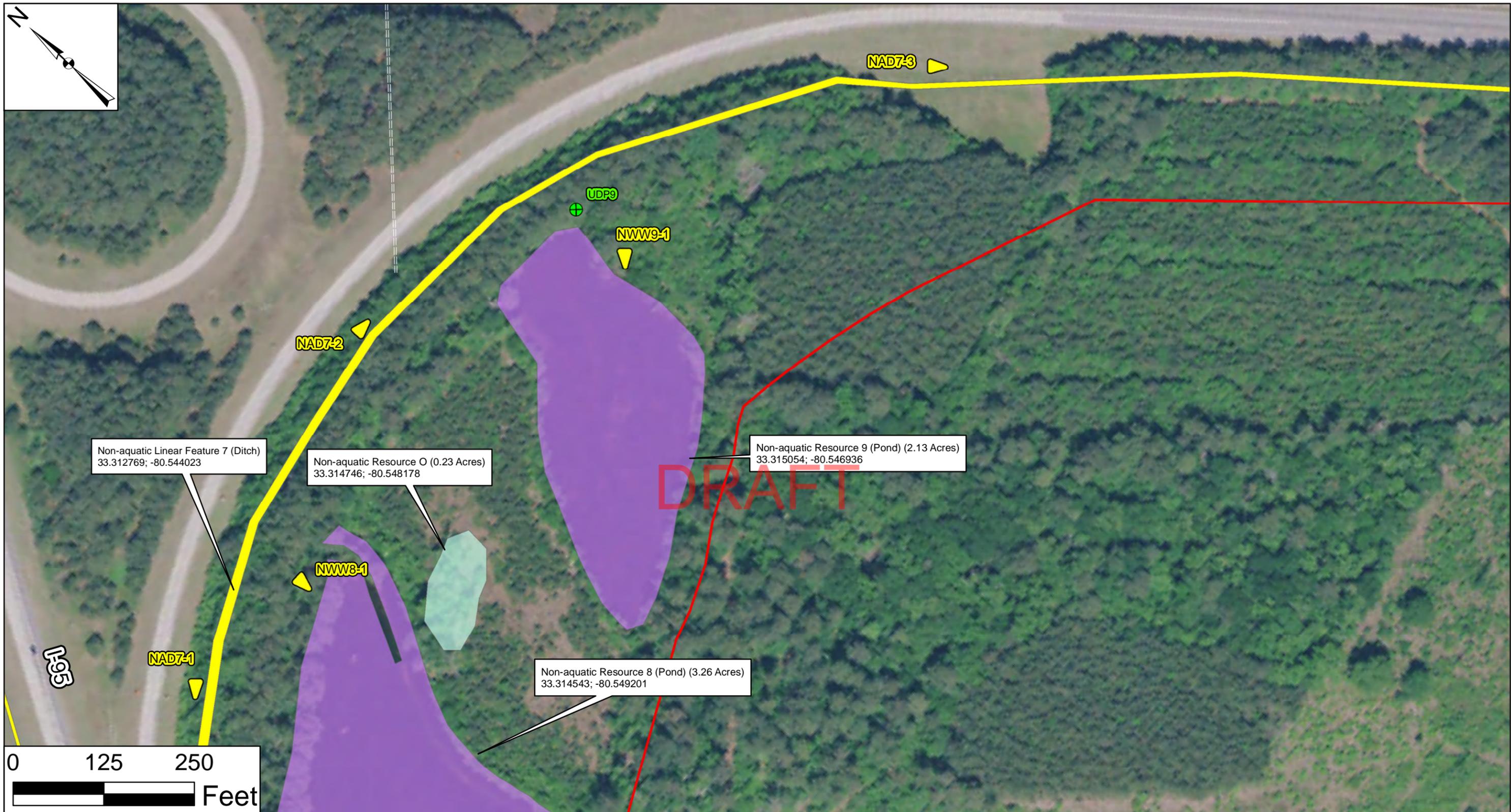
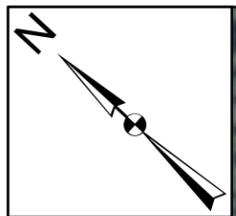


Legend

	Photo Point
	Data Point
	Pipe
	Non-aquatic Resource
	Non-aquatic Resource (Pond)
	Non-aquatic Linear Feature (Ditch)
	Project Study Area (483.39 Acres)

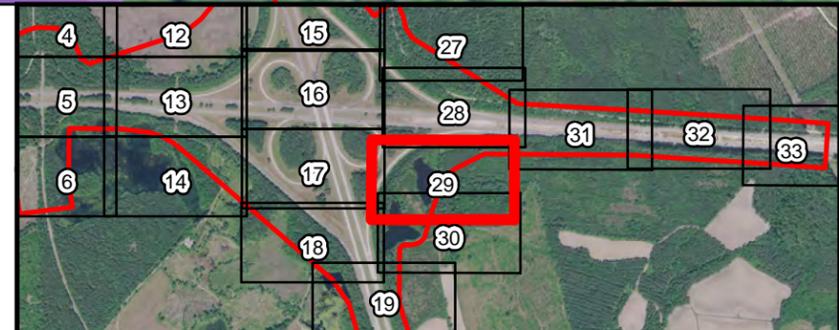


I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 28 of 33

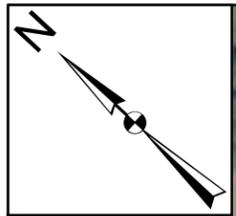


Legend

	Pipe
	Photo Point
	Data Point
	Non-aquatic Resource
	Non-aquatic Resource (Pond)
	Non-aquatic Linear Feature (Ditch)
	Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 29 of 33



Non-aquatic Resource O (0.23 Acres)
33.314746; -80.548178

Non-aquatic Resource 9 (Pond) (2.13 Acres)
33.315054; -80.546936

NWW3-1

Non-aquatic Resource 8 (Pond) (3.26 Acres)
33.314543; -80.549201

NAD7-1

DRAFT

I-95

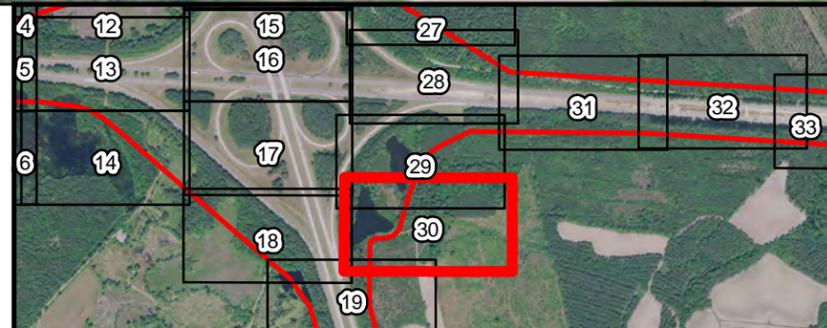
UDF8

Non-aquatic Linear Feature 7 (Ditch)
33.312769; -80.544023



Legend

- Pipe
- Photo Point
- Data Point
- Non-aquatic Resource
- Non-aquatic Resource (Pond)
- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)



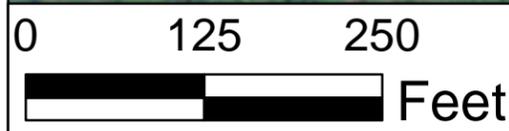
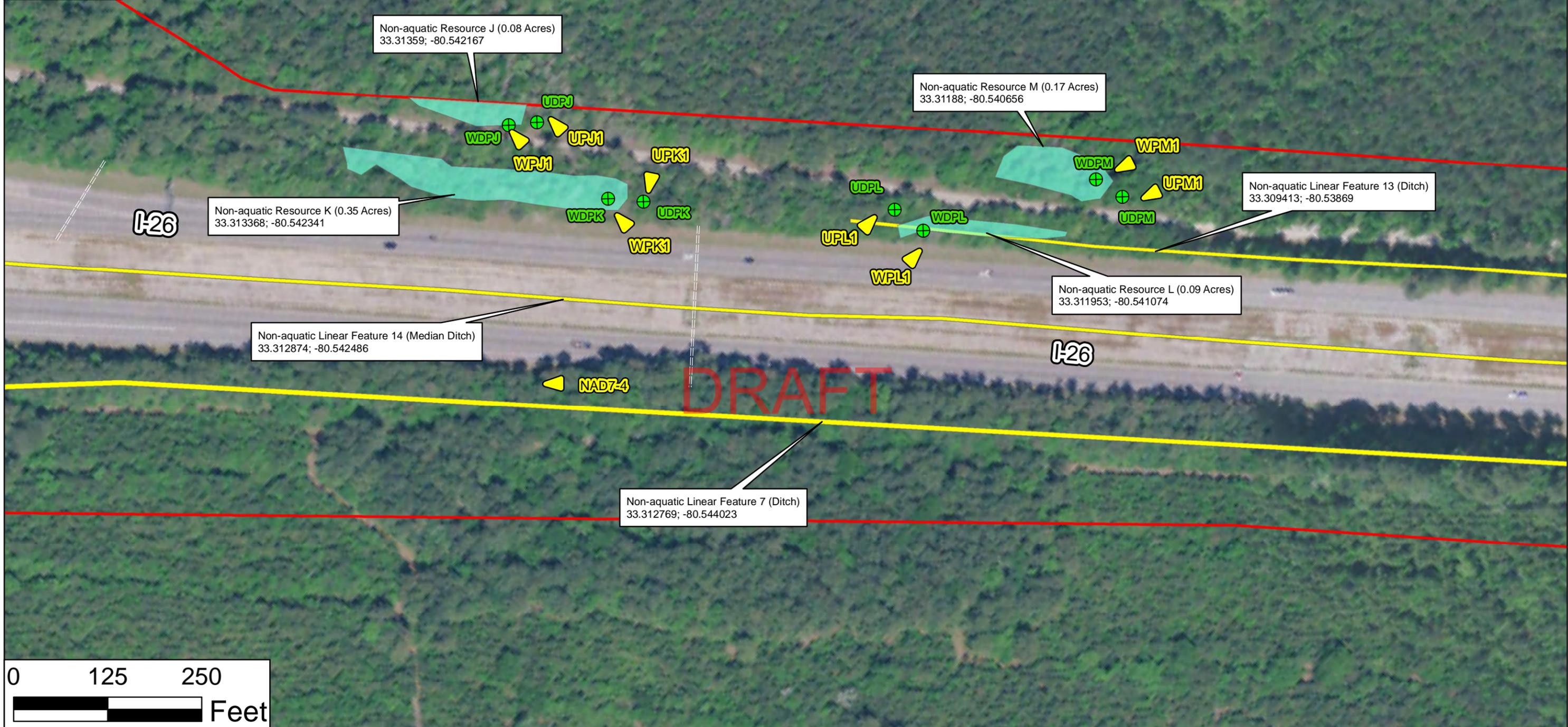
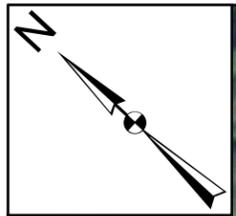
I-26 and I-95 Interchange Improvement
Orangeburg and Dorchester Counties
SCDOT P038677

Source:
USDA Orthoimagery
2021

AQUATIC RESOURCES

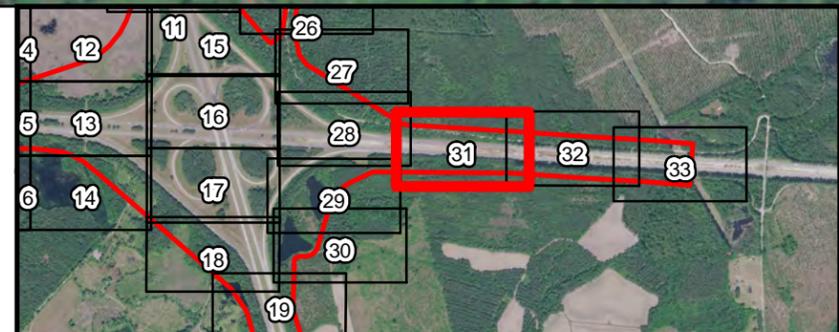
Drawn By: RHH
QA/QC: KLM
November 2022

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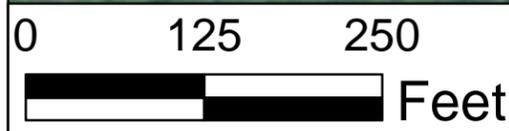
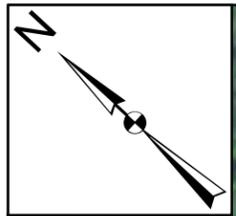


Legend

- Photo Point
- Data Point
- Pipe
- Non-aquatic Resource
- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)

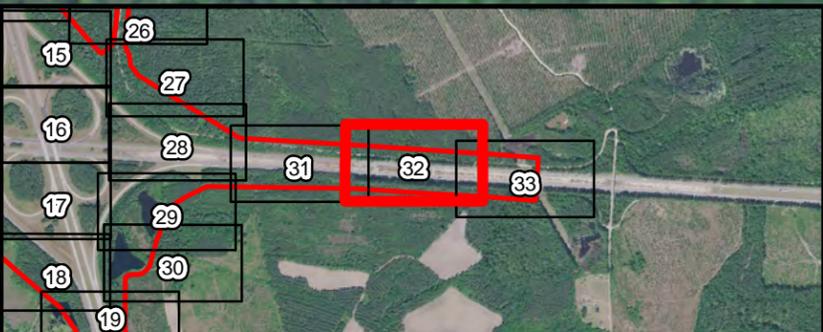


I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 31 of 33

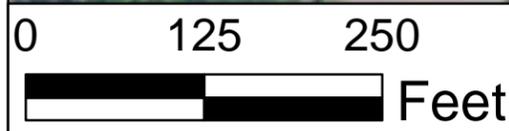
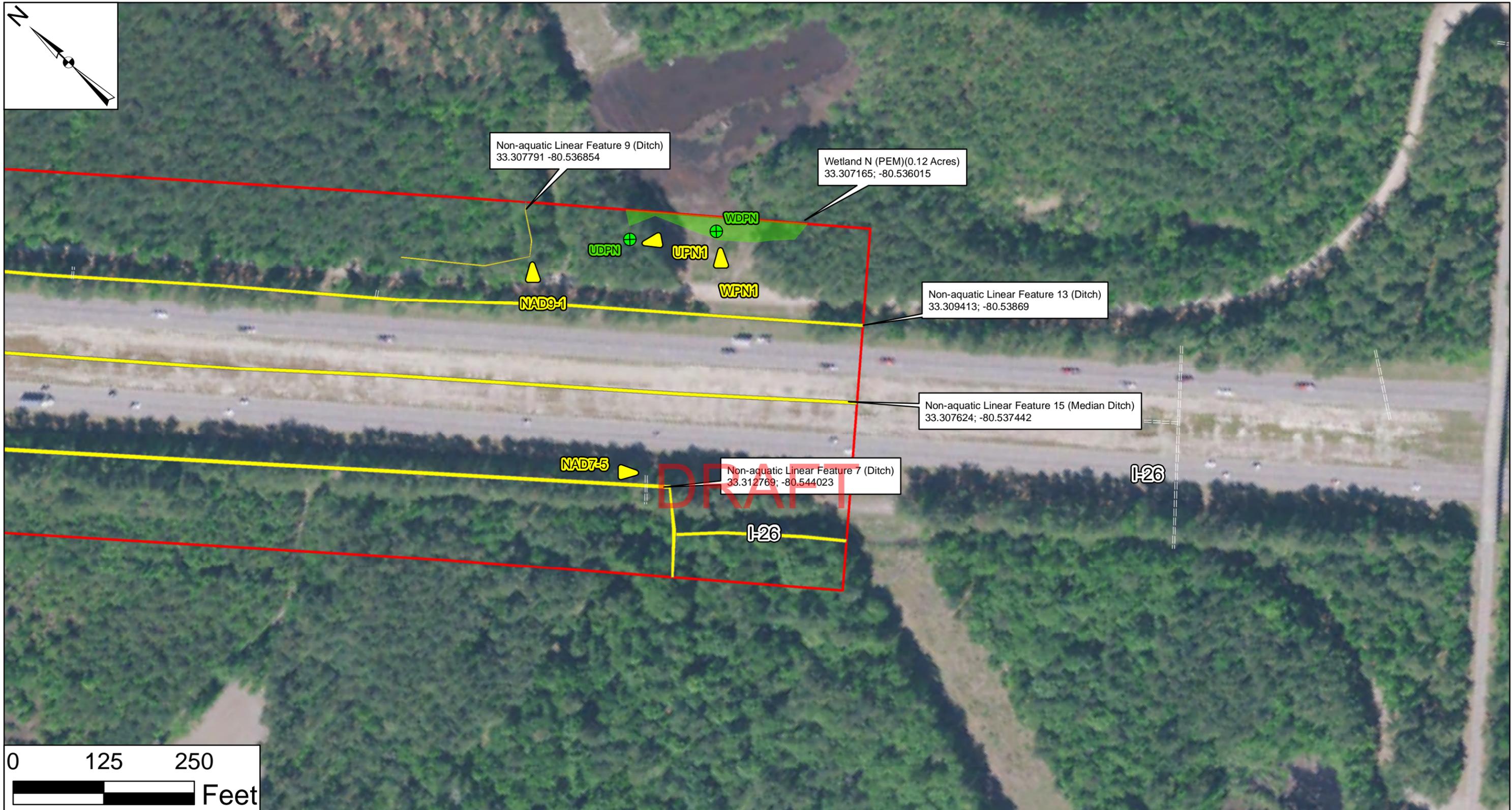
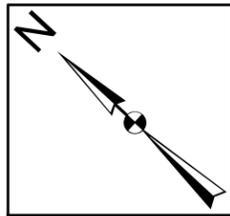


Legend

- Photo Point
- Data Point
- Pipe
- Non-aquatic Resource
- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)

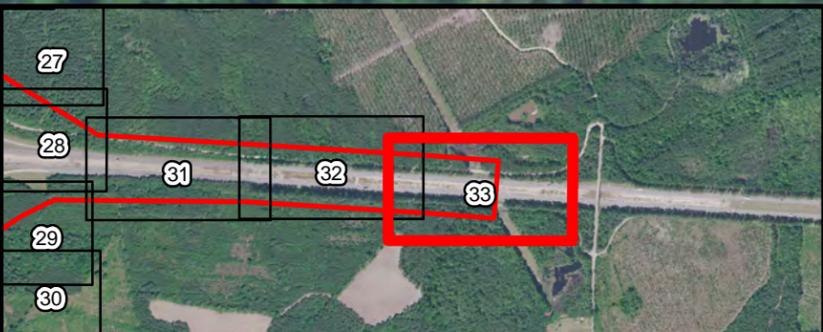


I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 32 of 33



Legend

- Photo Point
- Data Point
- Wetland
- Pipe
- Non-aquatic Linear Feature (Ditch)
- Project Study Area (483.39 Acres)



I-26 and I-95 Interchange Improvement Orangeburg and Dorchester Counties SCDOT P038677		
Source: USDA Orthoimagery 2021	AQUATIC RESOURCES Drawn By: RHH QA/QC: KLM November 2022	DRAFT Figure 5 Page 33 of 33

Attachment 3

Phase I Environmental Site Assessment

I-26 at I-95 Interchange Improvements
Project Study Area
Orangeburg County, South Carolina

Corridor / Phase I Environmental Site
Assessment

December 1, 2022

DRAFT
ARM Project #16-318-22

Prepared For:

Civil Engineering Consulting Services, Inc.
2000 Park Street, Suite 201
Columbia, SC 29201





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1.0 Summary

ARM Environmental Services, Inc. (ARM) has completed a Phase I Environmental Site Assessment (ESA) of the I-26 at I-95 Interchange Improvements Project Study Area. The study area is centered around the existing I-26 / I-95 interchange in Orangeburg County, South Carolina. The study area includes approximately 2.7 miles of I-26, approximately 2.5 miles of I-95, and also an area around the S-38-1302 bridge over I-26. Due to the multi-property nature of this project, the scope of the assessment has been modified to be more general relative to the ASTM 1527-13 standard. Specific processes that are typically not conducted as part of a Corridor / Phase I ESA include detailed reviews of chain of title data and interviews with all property owners. The purpose of this assessment was to identify any Recognized Environmental Conditions (RECs) present on, or located in close proximity to, the Study area, so that these conditions can be considered during the roadway construction planning process.

No evidence of gas station or industrial use was noted within or adjacent to the study area during the field reconnaissance or on aerial photographs. Several past fuel spills have been identified within or near the study area. These incidents have been further described in Section 5.1. The spills appeared to be typical of highway incidents involving tractor / trailers. File information indicates the spills were addressed. However, it is possible that small quantities of residual fuel-based soil contamination may remain and could possibly be encountered. Therefore, the listed fuel spill sites are considered to represent a low to moderate potential for adverse impact to the study area. However, precise location information was not available in the incident reports received through the South Carolina Department of Health and Environmental Control (DHEC) Freedom of Information (FOI) office. Therefore, further assessment would be logistically difficult prior to site work. Additionally, it should be noted that incidents such as these are typical of interstate and other highways that carry large volumes of truck traffic. It may be prudent to conduct further assessment of shallow soils or groundwater in the event that evidence of soil contamination is encountered during grading or other site development activities.

2.0 Introduction

Pursuant to authorization from Civil Engineering Consulting Services, Inc. (CECS), ARM has completed a Corridor / Phase I Environmental Site Assessment (ESA) of the I-26 at I-95 Interchange Improvements Project Study Area. The study area is centered around the existing I-26 / I-95 interchange in Orangeburg County, South Carolina. The study area includes approximately 2.7 miles of I-26, approximately 2.5 miles of I-95, and also an area around the S-38-1302 bridge over I-26.

Due to the multi-property nature of this project, the scope of the assessment has been modified to be more general relative to the ASTM 1527-13 standard. Specific processes that are typically not conducted as part of a Corridor / Phase I ESA include detailed reviews of chain of title data and interviews with all property owners.

2.1 Purpose

The purpose of this assessment was to identify any RECs or liabilities present within, or located in close proximity to, the study area. The term *recognized environmental conditions* means the presence, or likely presence, of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment (ASTM E 1527-13).

2.2 Detailed Scope of Services

This assessment was conducted in general accordance with ASTM Standard E 1527-13 for Phase I ESAs. Per this standard, the ESA is composed of four parts. They are (1) Records Review, (2) Site Reconnaissance, (3) Interviews, and (4) Report.

2.3 Significant Assumptions

The purpose of this study is to define and report RECs. This study does not address or relate to “de minimis” conditions that do not present a material threat to health or the environment and generally would not be the subject of an enforcement action by a governmental agency. It is assumed that the user of this ESA expects this study to constitute all appropriate inquiry in order to satisfy one of the requirements to qualify for one or more of the landowner liability protections (LLPs) to CERCLA liability.

This environmental assessment was accomplished based on customary practices and the type of property involved. The following are some issues or conditions which are outside the scope of work for a Phase I ESA as defined by ASTM E 1527: Asbestos Containing Materials, Radon, Lead-Based Paint, Lead in Drinking Water, Wetlands, Regulatory Compliance, Cultural and Historic Resources, Industrial Hygiene, Health and Safety, Ecological Resources, Endangered Species, Flood Plains/Flood Ways, Indoor Air Quality, and High Voltage Power Lines.

The accuracy of this environmental assessment partially depends on information provided by others. ARM cannot be responsible for the accuracy of information provided by other entities or persons. However, we have no reason to suspect that any of the information provided is inaccurate. With regard to the interviews, it is assumed that those interviewed responded in good faith and honestly.

ARM assumes no liability for changes in the fair market value of the property as a result of the performance of the environmental assessment activities, or disclosures of environmental conditions relating to the property.

2.4 Limitations and Exceptions of Assessment

This study was accomplished using the ASTM E 1527-13 guidelines for all appropriate inquiry and the environmental professional's best judgment. The environmental site assessment cannot wholly eliminate uncertainty regarding the potential for environmental conditions to exist on the subject site or adjoining properties. Performance of the study under the referenced ASTM guidelines is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Study area. ASTM recognizes reasonable limits with regard to time and cost.

Due to the multi-property nature of this project, the scope of the assessment has been modified to be more general relative to the ASTM 1527-13 standard. Specific processes that are typically not conducted as part of a Corridor / Phase I ESA include detailed reviews of chain of title data and interviews with all property owners. Vapor intrusion was not considered as part of this assessment as it is understood that the project involves roadway construction and not evaluation, renovation, or the construction of buildings or other structures that would potentially collect vapors.

It should also be noted that the large size and undeveloped nature of the study area precluded the visual inspection of much of the area. Representative portions were inspected where access was available.

2.5 Special Terms and Conditions

This scope of work has been conducted for Civil Engineering Consulting Services, Inc (CECS), of Columbia, SC.

2.6 User Reliance

This scope of work has been conducted solely for the user(s) identified on the cover sheet of this report. ARM has no present or contemplated future interest in the inspected property. User reliance may be amended by letter to include other parties, such as involved lenders, as deemed appropriate by ARM **and** pursuant to permission granted to ARM from the originally identified user.

3.0 Site Description

A general site description, site location, uses of adjacent properties, and general background information for the study area is summarized in the following sections. Photographic documentation of the study area is included in Appendix 17.3.

3.1 Location and Description

The study area is located around the existing I-26 / I-95 interchange in Orangeburg County, South Carolina. The study area includes approximately 2.7 miles of I-26, approximately 2.5 miles of I-95, and also an area around the S-38-1302 bridge over I-26. The study area location is indicated on Figure 1 included in Appendix 17.1. A site plan showing the general study area layout and approximate boundaries is included as Figure 2.

3.2 Site and Vicinity General Characteristics

The study area is described in Section 3.1 and 3.4. The general vicinity of the study area consists primarily of a mix of wooded / undeveloped / agricultural areas. Several ponds, some of which may have been borrow pits, are located within or near the study area.

3.3 Current Use of the Property

The current use of the study area is primarily roadway and portions of the undeveloped, properties that are adjacent to the roadways.

3.4 Descriptions of Structures, Roads, and Improvements on Site

I-26 consists of paved interstate highway with two travel lanes in either direction. Similarly, I-95 also consists of paved interstate highway with two travel lanes in either direction. The interchange area is a large cloverleaf style interchange with paved on and off ramps to and from the respective interstates. The portion of S-38-1302 within the study area consists of asphalt paved two lane approach to the asphalt paved, concrete decked bridge over I-26.

3.5 Current Uses of Adjoining Properties

Adjoining properties consist of a mix of wooded / undeveloped / agricultural areas. Several ponds, some of which may have been borrow pits, are located within or near the study area.

4.0 User Provided Information

4.1 Title Records

As this Phase I ESA has been modified to fit a corridor type project, the review of chain of title information for multiple properties was not conducted as part of this assessment.

4.2 Environmental Liens or Activity and Use Limitations (AULs)

No information regarding environmental liens or AULs was provided. As this Phase I ESA has been modified to fit a corridor type project, the review of this type of information for multiple properties was not included in the scope of this assessment.

4.3 Specialized Knowledge

No specialized knowledge or other information relevant to environmental conditions in the study area was provided.

4.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information relevant to environmental conditions in the study area was provided.

4.5 Valuation Reduction for Environmental Issues

Property valuation information was not provided. The intent of this Phase I ESA is to act as a corridor study.

4.6 Owner, Property Manager, and Occupant Information

As this Phase I ESA has been modified to fit a corridor type project, the collection and review of this type of information for these multiple properties of ownership data was not included in the scope of this assessment.

4.7 Reason for Performing Phase I

The Phase I ESA has been requested to document the environmental conditions in the study area so that alternatives for roadway construction within the study area can be considered.

4.8 Other

The User provided mapping indicating the limits of the study area.

5.0 Records Review

5.1 Standard Environmental Record Sources

Federal and State regulatory databases were reviewed to further identify any known sources of contamination located within a one mile or one-half mile radius of the Study area. The Federal records searched during this assessment included sites which handle or dispose of hazardous wastes or hazardous materials, and sites which otherwise have been identified to have air, soil, or groundwater contamination. The State records reviewed included hazardous waste sites, landfills, and sites with registered or leaking underground storage tanks. The environmental record search information is provided by Environmental Data Resources, Inc. (EDR). The EDR database report is provided in Appendix 17.5.

The regulatory databases and target radius for each database are as follows:

Federal Databases

NPL	National Priorities List (1.0 mile radius, 0.5 if delisted)
CERCLIS	EPA Comprehensive Environmental Response, Cleanup and Liability Information System (0.5 mile radius)
CERCLIS NFRAP	CERCLIS No Further Remedial Action Planned (property and adjoining property)
RCRA CORRACTS	Resource Conservation and Recovery Act Facilities that have been notified by the EPA to undertake corrective action under RCRA (1.0 mile radius)
RCRA TSD	RCRA Non-CORRACTS Treatment/Storage/Disposal Facilities (0.5 mile radius)
RCRA Generators	RCRA generators of hazardous waste (property and adjoining property)
AULs	Activity and use limitations – legal or physical restrictions or limitations on use (property)
ERNS	Emergency Response Notification System (property)

State Databases

SHWS	
Equivalent NPL	(1.0 mile radius)
Equivalent CERCLIS	(0.5 mile radius)
SWF/LF	Landfill/Solid Waste (0.5 mile radius)
LUST	Leaking Underground Storage Tank sites (0.5 mile radius)

RUST	Registered Underground Storage Tank sites (property and adjoining property)
AULs	(property)
Voluntary Cleanup Sites	(0.5 mile radius)
Brownfield Sites	(0.5 mile radius)

Regulated Facilities

The following regulated sites were identified within the research distances from the study area as defined above. Details gathered during the investigative process, including site visits, for sites deemed to represent greater than a low potential for adverse impact to the study area are also provided following the list. Additional regulatory database descriptions are included in Section 17.5.

- Saddle Tanks I-95 / I-26
Located within the study area; exact location unknown
SPILL site, Incident ID #389993
- Whetsell Farm Site
1452 Duncan Chapel Road, located approximately 3,150 feet west of the southern portion of the study area
SHWS site, DHEC ID #SCR000783795
- Cooking Oil Spill
Located within the study area; exact location unknown
ERNS site, NRC Report #892080
- Fuel Spill
I-26W, located within the study area; exact location unknown
SPILL site, Incident ID #200600244
- Fuel Spill
I-26 & I-95 Interchange, located within the study area; exact location unknown
SPILL site, Incident ID #200304147

Several spills have been reported in the vicinity of the I-26 / I-95 interchange. ARM submitted a request for information to the DHEC Freedom of Information (FOI) office in order to obtain available incident details.

The above listed Saddle Tank incident was a spill of diesel fuel from a jack-knifed truck on July 25, 2000. Notes in the spill report indicate that it occurred north bound on I-95 at the I-26 overpass and that fuel spilled to the median. Notes further indicate that the spill was cleaned up. Based on the available information, this spill incident is considered to represent a low to moderate potential for adverse impact to the study area; however, the exact location is not clear.

A fuel spill is also indicated for I-26 West, on January 20, 2006, that apparently occurred to a wet weather ditch. However, exact location information was not provided in the incident report. The report indicates that the spill was cleaned up to DHEC's satisfaction. Based on the available information, this incident is considered to represent a low to moderate potential for adverse impact to the study area.

A fuel spill from a ruptured fuel tank occurred at the I-26 / I-95 interchange area on October 20, 2003. Notes in the spill report indicate that the spill was approximately 30 gallons and that SCDOT spread sand on the spill to absorb the fuel. Based on the available information, this incident is considered to represent a low to moderate potential for adverse impact to the study area.

No information was available through FOI for the listed cooking oil spill. The EDR site report indicates that a tanker truck carrying cooking oil was involved in a roll over accident on December 9, 2008, releasing a large quantity of the cooking oil in the vicinity of the interchange. The exact location of the incident is not known. The EDR notes indicate that a remediation team was dispatched; however, no other cleanup details were readily available. As the material (cooking oil) is not considered to be a hazardous material, this incident is considered to represent a low potential for adverse impact to the study area.

The Whetsell Farm site is an SHWS site. File information indicates that response actions consisted mainly of assessment and removal of stored pesticides. Accurate location information was not available in the file. ARM contacted Mr. Greg Cassidy, the DHEC project manager for the site. Mr. Cassidy was able to describe the location of the site, which is actually located over ½ mile to the west of the southern portion of the study area. Based on the available information and the location of the site relative to the study area, the Whetsell Farm site is considered to represent a low potential for adverse impact to the study area.

No other regulated sites were identified within the research distances from the study area as defined above. The initial EDR report covered the study area as it was originally defined. However, approximately 2,500 feet of study area was subsequently added to the southern portion of I-95. An additional EDR data report was obtained to cover this portion. No new sites of concern were contained in the additional EDR data report.

5.2 Additional Environmental Record Sources

Additional environmental record sources (ASTM non-standard), as listed in the search of environmental databases provided by EDR, were reviewed as they were encountered in the EDR reports and as considered appropriate.

5.3 Physical Setting Sources

ARM reviewed the following sources regarding the physical setting of the study area and surrounding area:

- USGS Topographic Map, 7.5 minute series – Wadboo Swamp, (SC) Quadrangle, dated 2020

According to the contour lines on the USGS topographic maps reviewed for this assessment, the study area is located approximately 100 feet above mean sea level. Topography in the area is very level. Due to the relatively flat topographic relief, groundwater flow directions are difficult to infer from the surface topography. Four Hole Swamp, a major regional drainage feature, is located approximately a mile northeast of the study area. Low lying drainage areas, creeks, and wetlands are located throughout the area.

The subject property is located within the coastal plain physiographic province of South Carolina (Maybin and Nystrom, 1997). Most of the area is underlain by the Duplin Formation, located in the coastal terraces of the Carolinas. Major lithologic components consist of sands, sandy and silty clays, and very shelly sands, which frequently overlie a phosphatic basal conglomerate. (USGS Open-File Report 2005-1323). Additionally, much of the study area is located in the Bear Bluff Formation, consisting of Pliocene aged, gray to cream colored, fossiliferous, coarse grained calcareous sand and sandy limestone (Newell, et al).

5.4 Historical Use Information on the Property

Aerial Photographs

Aerial photographs, dated 1957, 1961, 1964, 1974, 1983, 1994, 2006, 2009, 2013, and 2017 were obtained from EDR. Additionally, Google Earth aerial photographs were viewed. Conditions in the aerial photographs appeared as follows. These photographs covered the study area as it was originally defined. However, approximately 2,500 feet of study area was subsequently added to the southern portion of I-95. Additional aerial photographs for this portion, dated 1961, 1964, 1995, 2006, 2009, 2013, and 2017, were obtained from EDR.

The aerial photographs generally show the subject property to be set in a very rural and primarily agricultural and wooded area. I-26 is first evident on the 1961 photograph. I-95 is first evident on the 1974 photograph, as is the large cloverleaf interchange. S-38-1302 is evident over I-26 beginning with the 1961 aerial photograph. More ponds become evident over time and may be related to interstate and interchange construction. No landfills or other obvious environmental concerns are evident in the immediate area on the aerial photographs reviewed.

Historical Topographic Maps

The following topographic maps were reviewed as historical sources:

- USGS Topographic Map, 15 Minute – Bowman (SC) Quadrangle, dated 1920
- USGS Topographic Map, 15 Minute – Bowman (SC) Quadrangle, dated 1921
- USGS Topographic Map, 15 Minute – Bowman (SC) Quadrangle, dated 1943
- USGS Topographic Map, 7.5 Minute – Wadboo Swamp, (SC) Quadrangle, dated 1982
- USGS Topographic Map, 7.5 Minute – Wadboo Swamp, (SC) Quadrangle, dated 2014
- USGS Topographic Map, 7.5 Minute – Wadboo Swamp, (SC) Quadrangle, dated 2017
- USGS Topographic Map, 7.5 Minute – Wadboo Swamp, (SC) Quadrangle, dated 2020

1920, 1921, 1943 – The area appears very rural, agricultural, and wooded. The interstate highways are not present. Several ponds, which may be borrow pits, are noted near the northeastern portion of the study area.

1982, 2014, 2017, 2020 – The interstate highways and the cloverleaf interchange are now depicted. The area still appears very rural, agricultural, and wooded.

Summary

The available historical information indicates that the study area and vicinity have been historically very rural and only lightly developed, primarily with residences. Agricultural properties and timberland have been prevalent in the area. I-26 is first seen on the 1961 aerial photograph. I-95 appears to have been added by the early 1970s. The available historical sources did not indicate significant environmental conditions in the study area.

6.0 Site Reconnaissance

6.1 Methodology and Limiting Conditions

ARM conducted the site walkover/ reconnaissance on September 15, 2022 and September 21, 2022, in order to obtain any information regarding current conditions. Representative photographs of the study area were taken and are included in Appendix 17.3.

6.2 General Site Setting

The study area location is indicated on Figure 1 included in Appendix 17.1. Site plans showing the general study area layout are included as Figures 2 through 5 in Appendix 17.2. Sections 3.1, 3.2 and 3.4 of this report detail the general setting of the study area. The adjoining properties have been described in Section 3.5 of this report. The pertinent information collected during the site inspection is summarized in the following sections.

6.3 Observations

The study area is located around the existing I-26 / I-95 interchange in Orangeburg County, South Carolina. The study area includes approximately 2.7 miles of I-26, approximately 2.5 miles of I-95, and also an area around the S-38-1302 bridge over I-26. Details regarding sites identified in the regulatory review process are provided in Section 5.0.

I-26 consists of paved interstate highway with two travel lanes in either direction. Similarly, I-95 also consists of paved interstate highway with two travel lanes in either direction. The interchange area is a large cloverleaf style interchange with paved on and off ramps to and from the respective interstates. The portion of S-38-1302 within the study area consists of asphalt paved two lane approach to the asphalt paved, concrete decked bridge over I-26. The area is very rural, agricultural, light residential, and undeveloped timberland.

Debris, consisting primarily of concrete rubble and roofing materials, was noted adjacent to the pond on the southeast side of Whetsell Road (S-38-1302). Additional debris, consisting of an abandoned chest freezer, empty tin food cans, aerosol spray paint cans, and gel ice packs, was also noted in this area. No staining or other indications of significant contamination were noted to be associated with the debris.

Unpaved frontage roads run alongside I-26 and I-95, accessible primarily from Whetsell Road and Weathers Farm Road. These roads appear to function as access roads to undeveloped properties located along the interstates. Representative portions of these roads were traveled where accessible.

A small fenced area with a small shelter building, presumably for communications equipment, is located adjacent to the clover leaf off ramp from I-95 North / on ramp to I-26 West. A small generator with a self-contained fuel tank is located here. No evidence of leakage or other indications of environmental impact were noted here.

No evidence of gas station or industrial use was noted within or adjacent to the study area during the field reconnaissance or on aerial photographs.

7.0 Interviews

Interviews were conducted as part of the Phase I ESA investigative process and are summarized below. Additional information related to the interviews may be contained in other sections of this report, as appropriate, and interview documentation is provided in Section 17.6. Due to the multi-property nature of this assessment the Phase I ESA has been modified to be more general in scope and to provide an overall assessment of a large area. Therefore, interviews with individual property owners / managers were not generally conducted, as it would have been prohibitively time consuming to locate ownership / manager information for these multiple parcels.

7.1 Interviews with Local Government Officials

The DHEC FOI office was contacted for additional information related to sites identified in Section 5.1. Ms. Armani Brown, of the DHEC FOI office, provided the requested regulatory file information.

Mr. Greg Cassidy, DHEC project manager for the Whetsell Farm site, was interviewed, as described in Section 5.1.

7.2 Interviews with Others

No other interviews were conducted.

8.0 Findings

The following summary of findings is provided:

- The study area is located around the existing I-26 / I-95 interchange in Orangeburg County, South Carolina. The study area includes approximately 2.7 miles of I-26, approximately 2.5 miles of I-95, and also an area around the S-38-1302 bridge over I-26. I-26 consists of paved interstate highway with two travel lanes in either direction. Similarly, I-95 also consists of paved interstate highway with two travel lanes in either direction. The interchange area is a large cloverleaf style interchange with paved on and off ramps to and from the respective interstates. The portion of S-38-1302 within the study area consists of asphalt paved two lane approach to the asphalt paved, concrete decked bridge over I-26.

- Several fuel spills have been identified within or near the study area. These incidents have been further described in Section 5.1.

9.0 Opinion

Based on the site inspection, historical research, regulatory data review and interviews, it is the opinion of the environmental professional that RECs exist with respect to the study area.

10.0 Conclusions

We have performed a Corridor / Phase I ESA in general conformance with the scope and limitations of ASTM Practice E 1527-13 of the area located around the existing I-26 / I-95 interchange in Orangeburg County, South Carolina. The study area includes approximately 2.7 miles of I-26, approximately 2.5 miles of I-95, and also an area around the S-38-1302 bridge over I-26. Any exceptions to, or deletions from, this practice are described in Sections 2.4 and 11.0. This assessment has revealed no evidence of RECs in connection with the study area, except for the following:

Several fuel spills have been identified within or near the study area. These incidents have been further described in Section 5.1. File information indicates the spills were addressed. However, it is possible that small quantities of residual fuel based soil contamination may remain and may be encountered. Therefore, the listed fuel spill sites are considered to represent a low to moderate potential for adverse impact to the study area. However, precise location information was not available in the incident reports received through the DHEC FOI office. Therefore, further assessment would be logistically difficult prior to site work. Additionally, it should be noted that incidents such as these are typical of interstate and other highways that carry large volumes of truck traffic. It may be prudent to conduct further assessment of shallow soils or groundwater in the event that evidence of soil contamination is encountered during grading or other site development activities.

11.0 Deviations

This Phase I ESA was conducted in general accordance with ASTM Standard E 1527-13 for Phase I Environmental Site Assessments. However, due to the multi-property nature of this assessment the Phase I ESA has been modified to be more general in scope and to provide an overall assessment of a large area.

12.0 Additional Services

Asbestos and Lead Based Paint Surveys of the I-95 north bound bridge over I-26, the I-95 south bound bridge over I-26, and the S-38-1302 bridge over I-26 were also conducted. The results of the surveys are provided under separate cover.

13.0 References

ASTM E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

Environmental regulatory data, aerial photographs, historical topographic maps, and Sanborn Fire Insurance Map searches, provided by EDR, Inc.

Maybin and Nystrom, 1997, revised by Willoughby, Howard and Nystrom, 2005. Generalized Geologic Map of South Carolina; South Carolina Department of Natural Resources Geological Survey.

USGS Open-File Report 2005-1323, Preliminary integrated geologic map databases for the United States: Alabama, Florida, Georgia, Mississippi, North Carolina, and South Carolina, <http://pubs.usgs.gov/of/2005/1323/>.

Newell, Wayne L., Prowell, David (retired), Krantz, David, Powars, David, Mixon, Robert (retired), Stone, Byron, and Willard, Debra, in review, Surficial Geology and Geomorphology of the Atlantic Coastal Plain: USGS Open File Report, in press.

14.0 Signature(s) of Environmental Professional(s)

Report Compiled By:



Richard Ciccolella
Project Manager

Reviewed By:



Richard Pittenger
Sr. Project Manager / Principal

15.0 Qualifications of Environmental Professional(s)

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312, and we have the specific qualifications based on the education, training, and experience to assess a property of the nature, history, and setting of the Study area. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Resumes summarizing the qualifications of the Environmental Professionals that conducted this assessment are included in Appendix 17.8.

16.0 Warranty

Services provided by ARM in this environmental assessment have been conducted in accordance with generally accepted environmental practices. This report has been generated solely for the use of the client. The information presented in this report is based only upon our site observations at the time of the site reconnaissance and data generated during our site reconnaissance. We cannot be responsible for the accuracy of information provided by others; however, we have no reason to suspect that any of the information provided is inaccurate. We accept no responsibility of damages or claims resulting from past or future environmental impact to the site caused by on or off-site activities or contamination, nor do we accept responsibility for subsequent remediation. This study is intended to be a non-biased assessment of on-site environmental conditions. No other warranties, either expressed or implied, are made.

17.0 APPENDICES

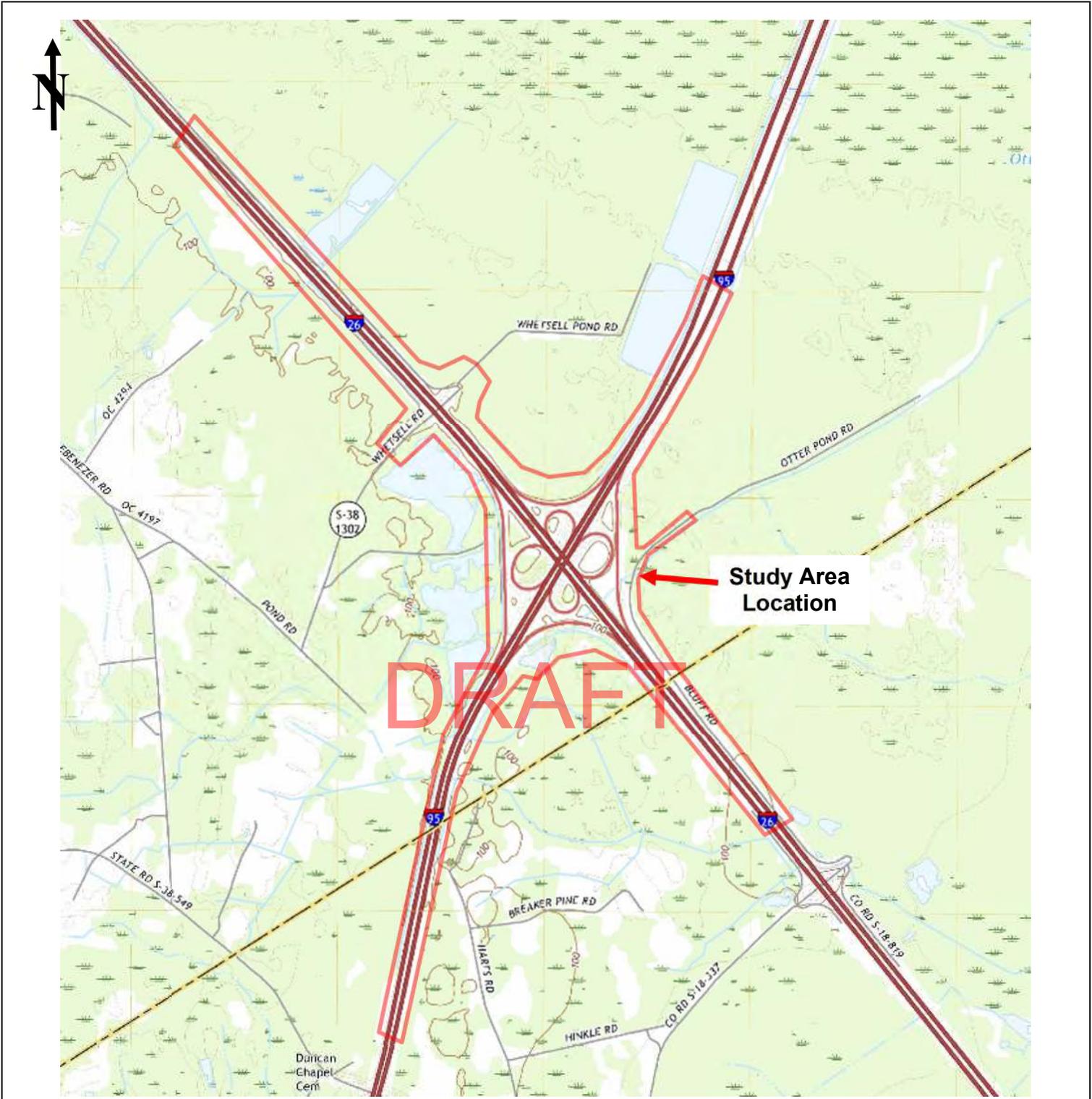
- 17.1 Site (Vicinity) Map – Figure 1
- 17.2 Site Plan – Figure 2
- 17.3 Site Photographs
- 17.4 Historical Research Documentation
- 17.5 Regulatory Records Documentation
- 17.6 Interview Documentation
- 17.7 Special Contractual Conditions Between User and Environmental Professional
- 17.8 Qualifications of the Environmental Professional(s)

DRAFT

17.1 Site (Vicinity) Map

Figure 1 – Topographic Site Location
Map

DRAFT



Project

Corridor / Phase I ESA
 I-26 / I-95 Interchange Study Area
 Orangeburg County, South Carolina

Figure 1

Study Area Site Location Map
 USGS 2017 7.5 Minute Wadboo Swamp, SC Quad

Scale

No Scale

Date

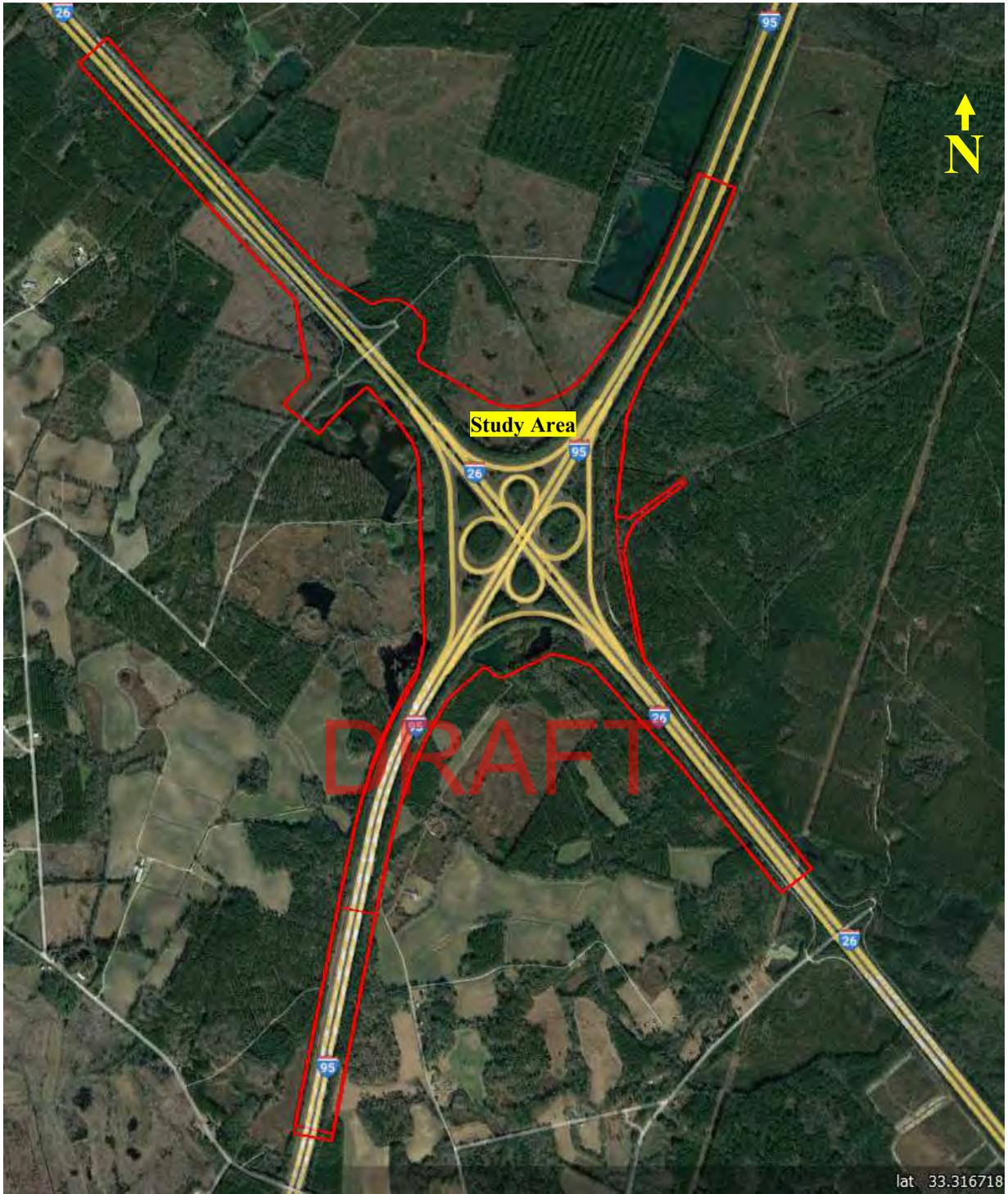
November 2022



17.2 Site Plan

Figure 2 – General Site Plan

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Project
 Corridor / Phase I ESA
 I-26 / I-95 Interchange Study Area
 Orangeburg County, South Carolina

Figure 2
 Site Plan

Scale
 No Scale

Date
 November 2022

ARM ENVIRONMENTAL SERVICES, INC.

17.3 Site Photographs

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Photograph 1 – View of the S-38-1302 Bridge over I-26.



Photograph 2 – View looking southeast along I-26 from the S-38-1302 bridge.



Photograph 3 – View looking northwest along I-26 from the S-38-1302 bridge.

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Photograph 4 – View of the I-95 bridges over I-26.



Photograph 5 – Typical view of I-26 passing beneath the I-95 bridges.



Photograph 6 – Typical view looking northwest along the unpaved frontage road along the southwest side of I-26, northwest of Weathers Farm Road.



Photograph 7 – Typical view looking northwest along the unpaved frontage road along the northeast side of I-26, northwest of Weathers Farm Road.



Photograph 8 – Typical view looking north along the unpaved frontage road along the east side of the I-26 West off ramp / I-95 north ramp, northwest of Weathers Farm Road.



Photograph 9 – View of debris located adjacent to the pond on the southeast side of Whetsell Road (S-38-1302).



Photograph 10 – View of debris near the pond on the southeast side of Whetsell Road (S-38-1302).



Photograph 11 – Typical view looking northwest along the unpaved frontage road along the southwest side of I-26, northwest of Whetsell Road (S-38-1302).

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Photograph 12 – Typical view looking northwest along the unpaved frontage road along the northeast side of I-26, northwest of Whetsell Road (S-38-1302).



Photograph 13 – View of the fenced enclosure with a shelter building and generator, located adjacent to the clover leaf off ramp from I-95 North / on ramp to I-26 West.

DRAFT

17.4 Historical Research Documentation

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I-26 / I-95 Interchange Improvements

I-26 / I-95 Interchange Improvements

Bowman, SC 29018

Inquiry Number: 7106041.2

September 06, 2022

DRAFT

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Date EDR Searched Historical Sources:

Aerial Photography September 06, 2022

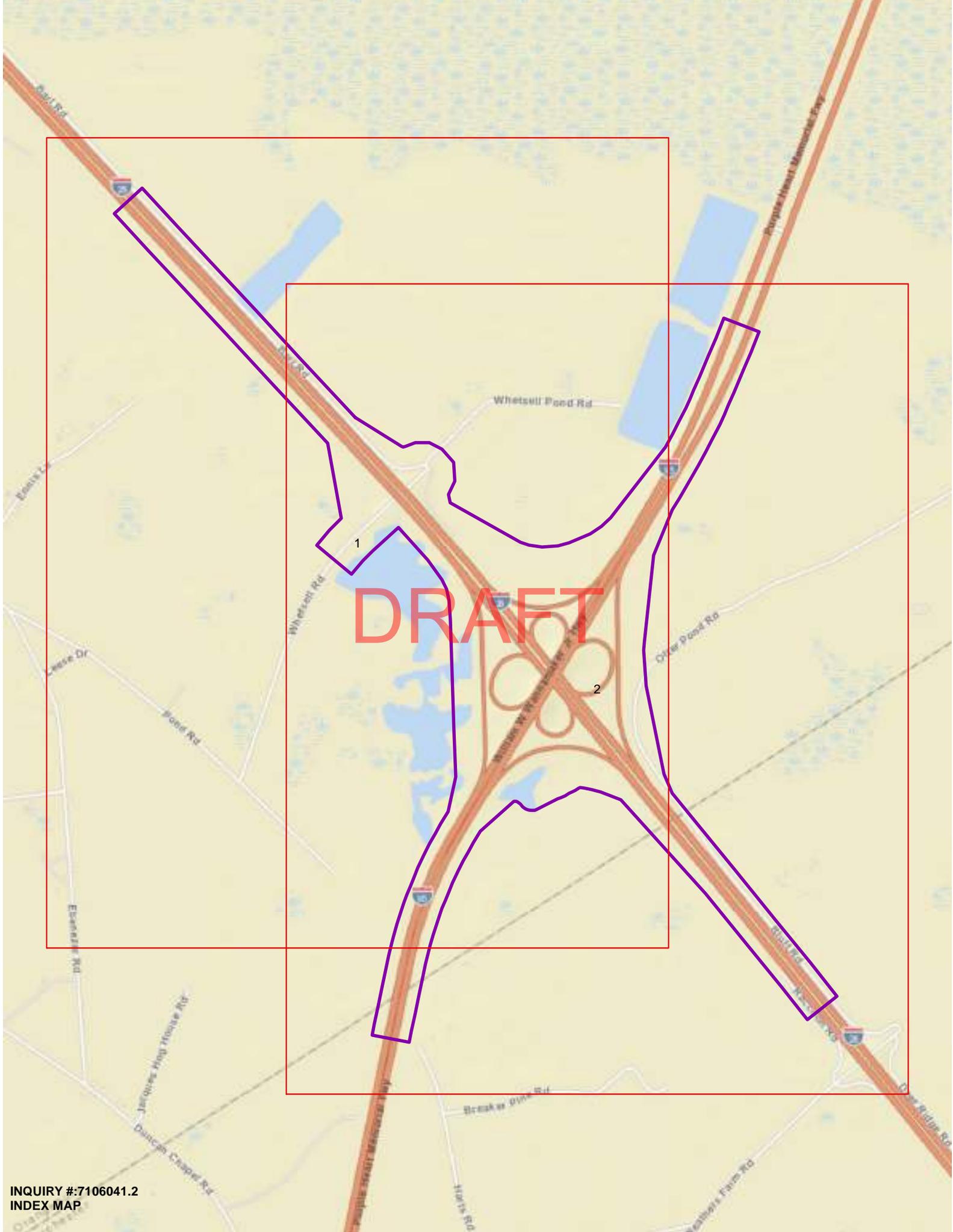
Target Property:

I-26/I-95 Interchange Improvements

Bowman, SC 29018

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1961	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1961	USGS
1964	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1964	USGS
1974	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1974	USGS
1983	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1983	USGS
1994_95	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994_95	USGS/DOQQ
2006	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2006	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2009	USDA/NAIP
2013	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2013	USDA/NAIP
2017	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2017	USDA/NAIP

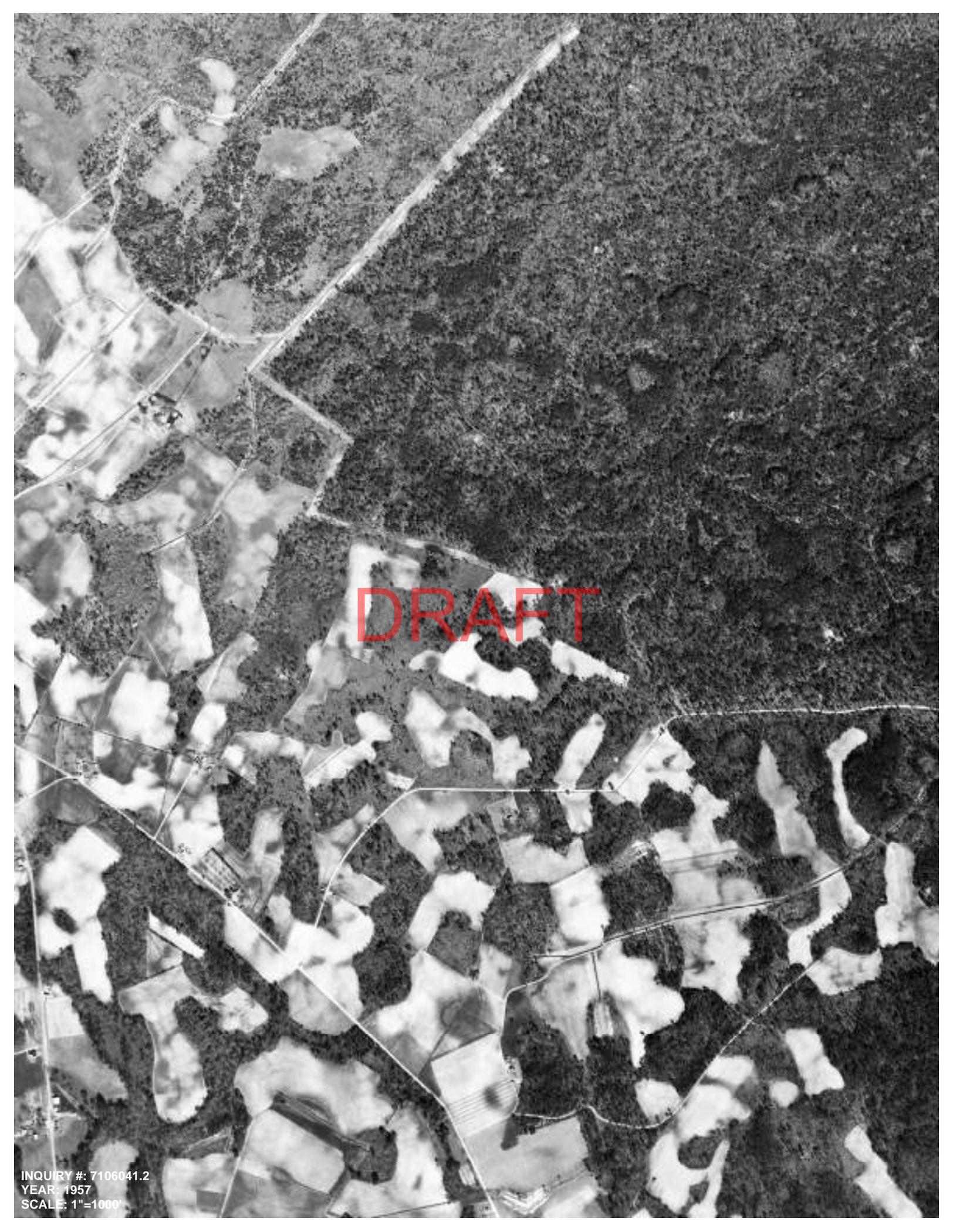
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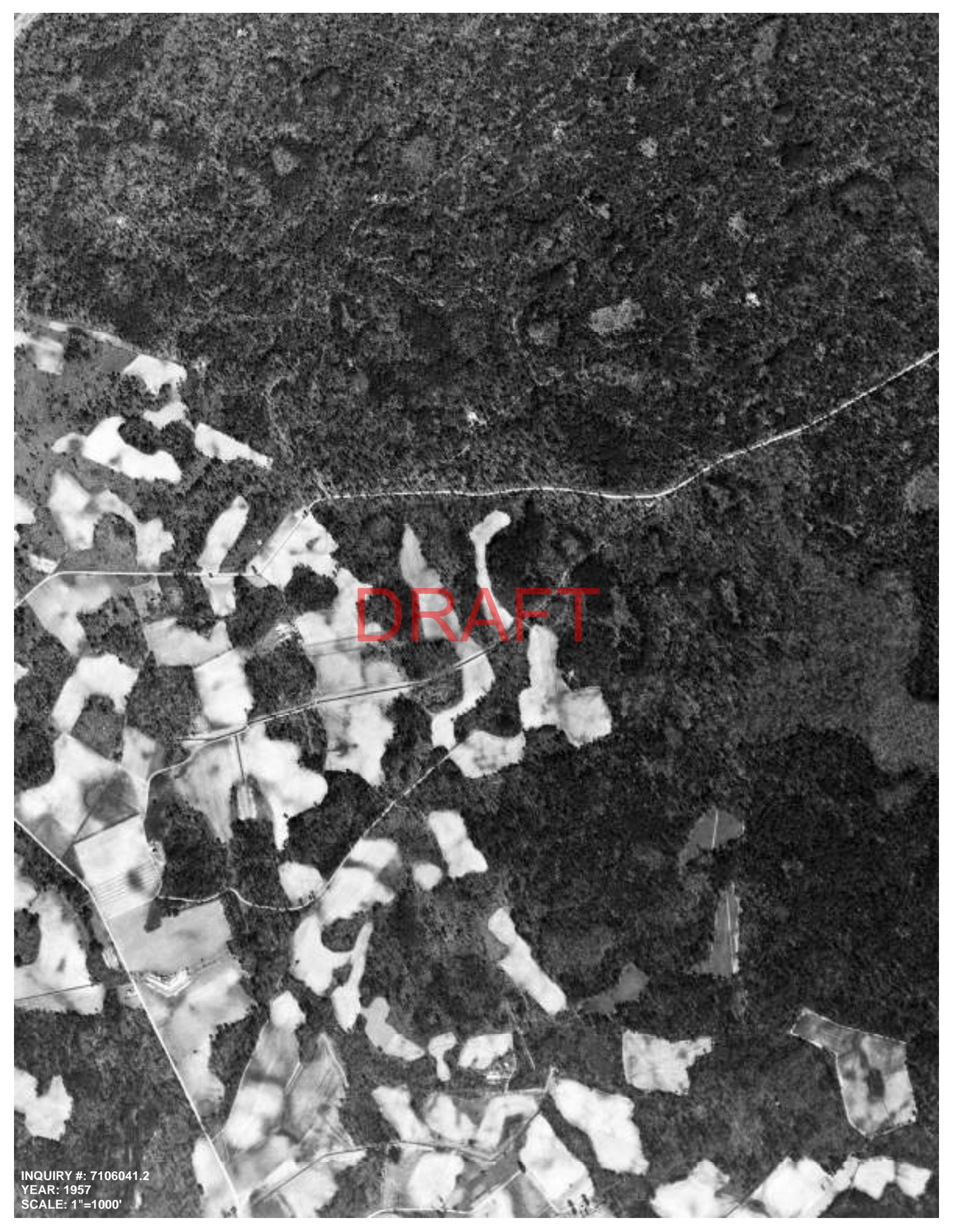
DRAFT

1

2

An aerial photograph of a rural landscape, likely a farm or agricultural area. The image shows a mix of dark, dense vegetation (possibly trees or brush) and lighter, open fields. A network of roads and paths is visible, including a prominent road running diagonally from the top left towards the center. In the lower-left quadrant, there are several buildings, including a large, light-colored structure that appears to be a barn or a large shed. The overall scene is a typical rural setting. A large, semi-transparent red watermark with the word "DRAFT" is centered over the image.

DRAFT

An aerial photograph showing a rural landscape. The terrain is a mix of dark, dense vegetation and lighter, cleared areas. A network of roads and paths is visible, including a prominent road on the left side. A large, semi-transparent red watermark with the word "DRAFT" is centered over the image.

DRAFT

INQUIRY #: 7106041.2
YEAR: 1957
SCALE: 1"=1000'

An aerial photograph showing a multi-lane highway interchange. The highway runs diagonally from the top-left towards the bottom-right. A smaller road branches off to the right from the main highway. The surrounding area is a mix of dark, wooded land and lighter, cleared or agricultural areas. A large, semi-transparent red watermark with the word "DRAFT" is centered over the interchange.

DRAFT

An aerial photograph showing a landscape with a road and fields. The road is a multi-lane highway running diagonally from the top left towards the bottom right. The surrounding area consists of various fields and patches of vegetation, some appearing darker and some lighter. The word "DRAFT" is overlaid in red, bold, capital letters in the center of the image.

DRAFT

An aerial photograph showing a multi-lane highway interchange. The highway runs diagonally from the top-left towards the bottom-right. A road branches off to the right from the main highway. The surrounding area is a mix of dark, textured terrain, possibly forested, and lighter, more uniform areas that could be fields or cleared land. A large, semi-transparent red watermark with the word "DRAFT" is centered over the interchange area.

DRAFT

An aerial photograph showing a multi-lane highway interchange in the upper left quadrant. The highway runs diagonally from the top left towards the bottom right. The surrounding area is a patchwork of agricultural fields, some appearing as light-colored rectangular plots and others as darker, irregular shapes. A large, semi-transparent red watermark with the word "DRAFT" is centered over the image.

DRAFT

An aerial photograph showing a landscape with a road, a large dark area, and a circular structure. The road runs diagonally from the top left towards the bottom right. A large, dark, irregularly shaped area is located in the center of the image. To the right of this dark area, there is a circular structure with a central point and several smaller circles around it, possibly a well or a small pond. The overall terrain appears to be a mix of open land and some structures.

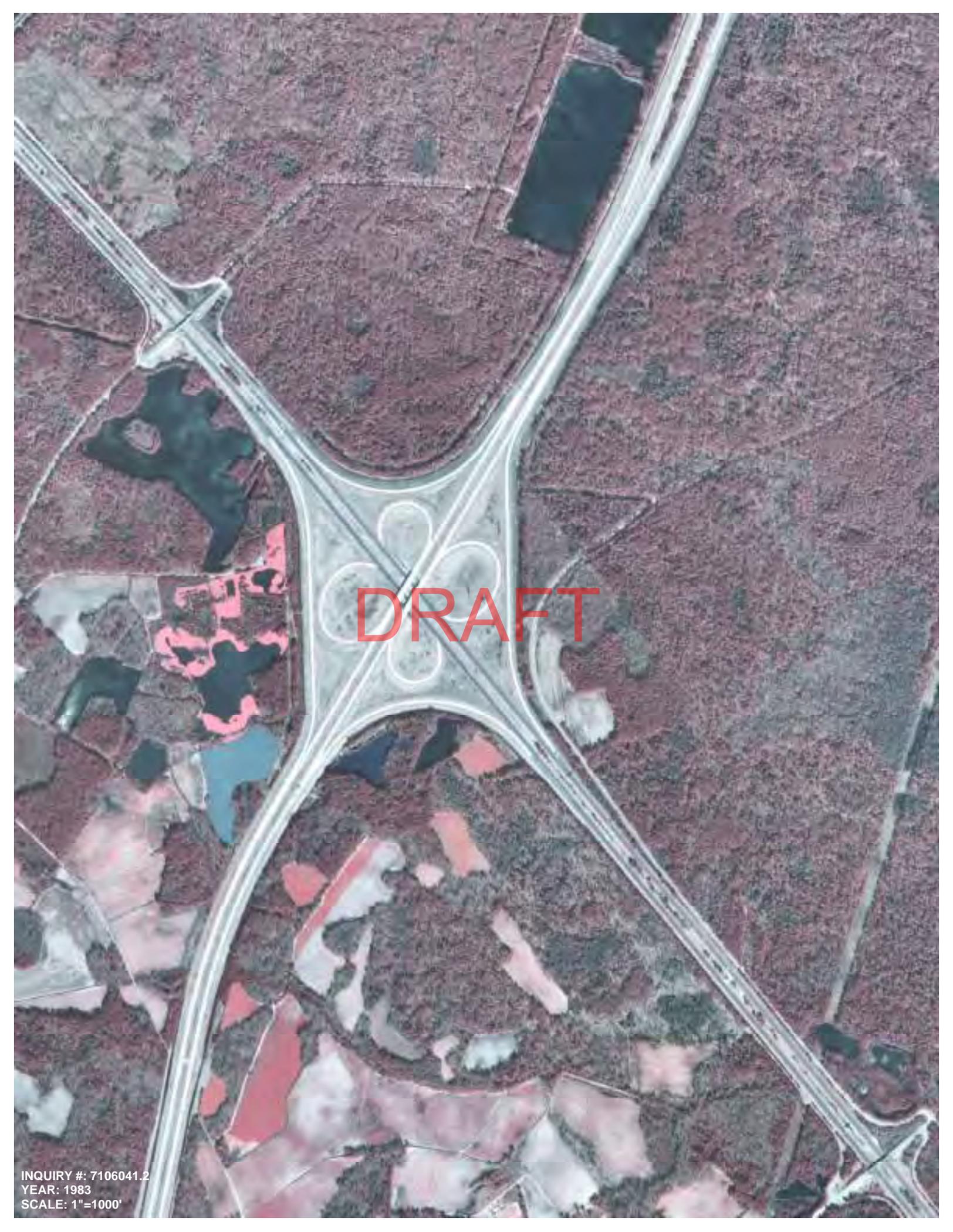
DRAFT



DRAFT

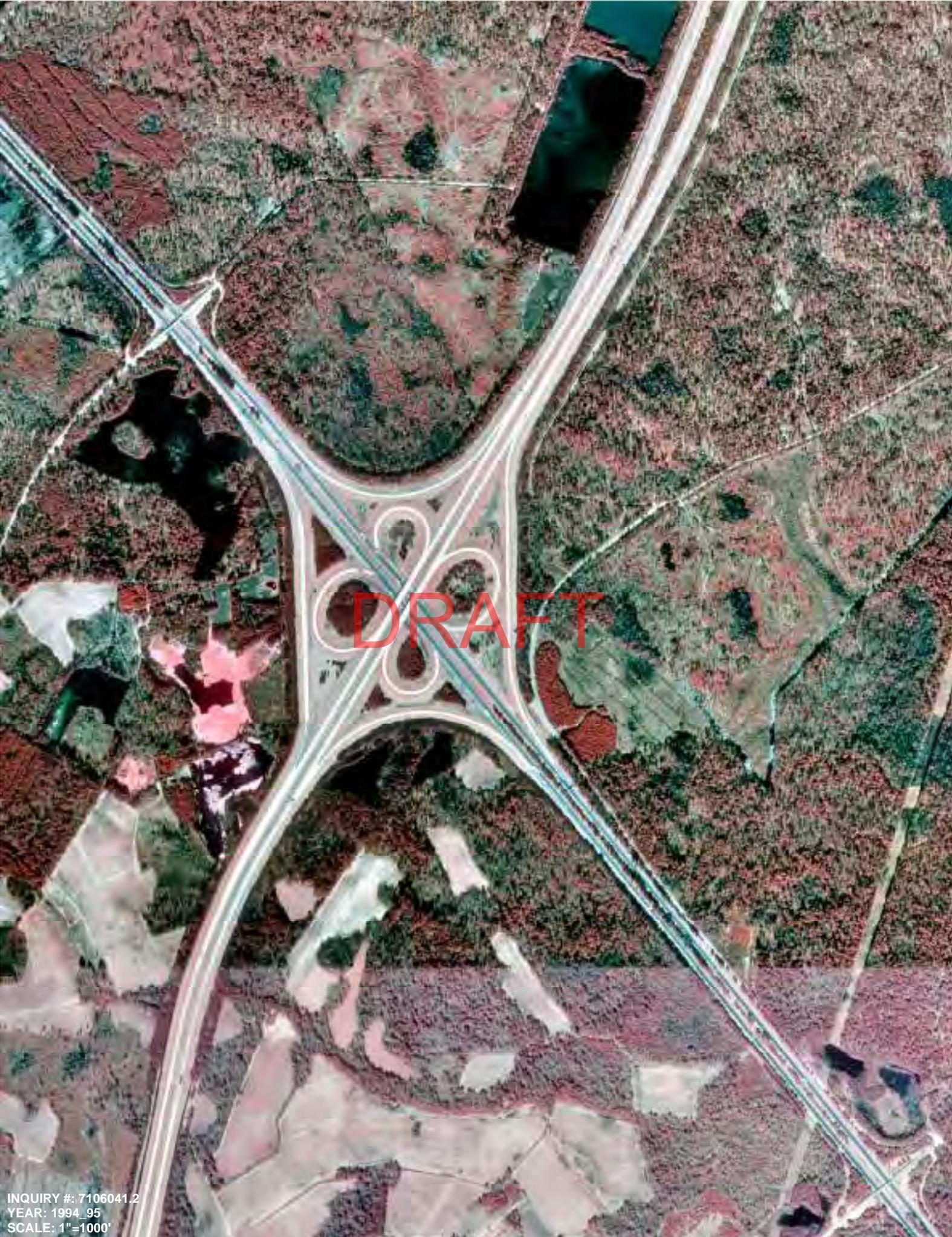
An aerial photograph of a highway interchange. The image shows a multi-lane highway entering from the top left, curving to the right, and then splitting into two exits. The interchange area is marked with white lines and circles, indicating planned or existing road features. The surrounding landscape is a mix of dark green forested areas and light brown/tan cleared or agricultural land. A large, semi-transparent red watermark with the word "DRAFT" is centered over the image.

DRAFT



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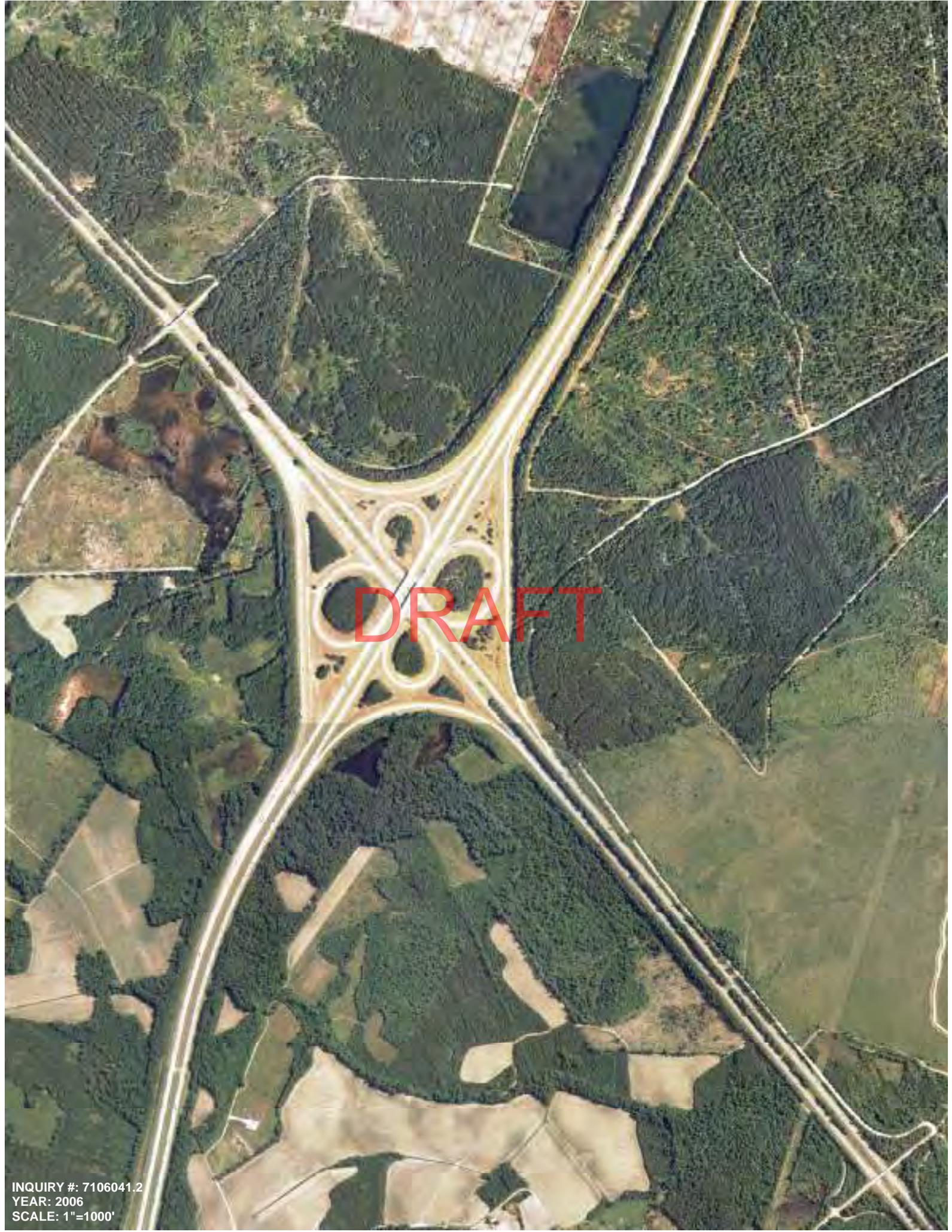
DRAFT



INQUIRY #: 7106041.2
YEAR: 1994_95
SCALE: 1"=1000'

An aerial photograph of a highway interchange. The interchange features a multi-level design with several circular overpasses. The surrounding landscape is a mix of green fields, dark green forested areas, and some brownish patches. A large, semi-transparent red watermark with the word "DRAFT" is centered over the image.

DRAFT



DRAFT

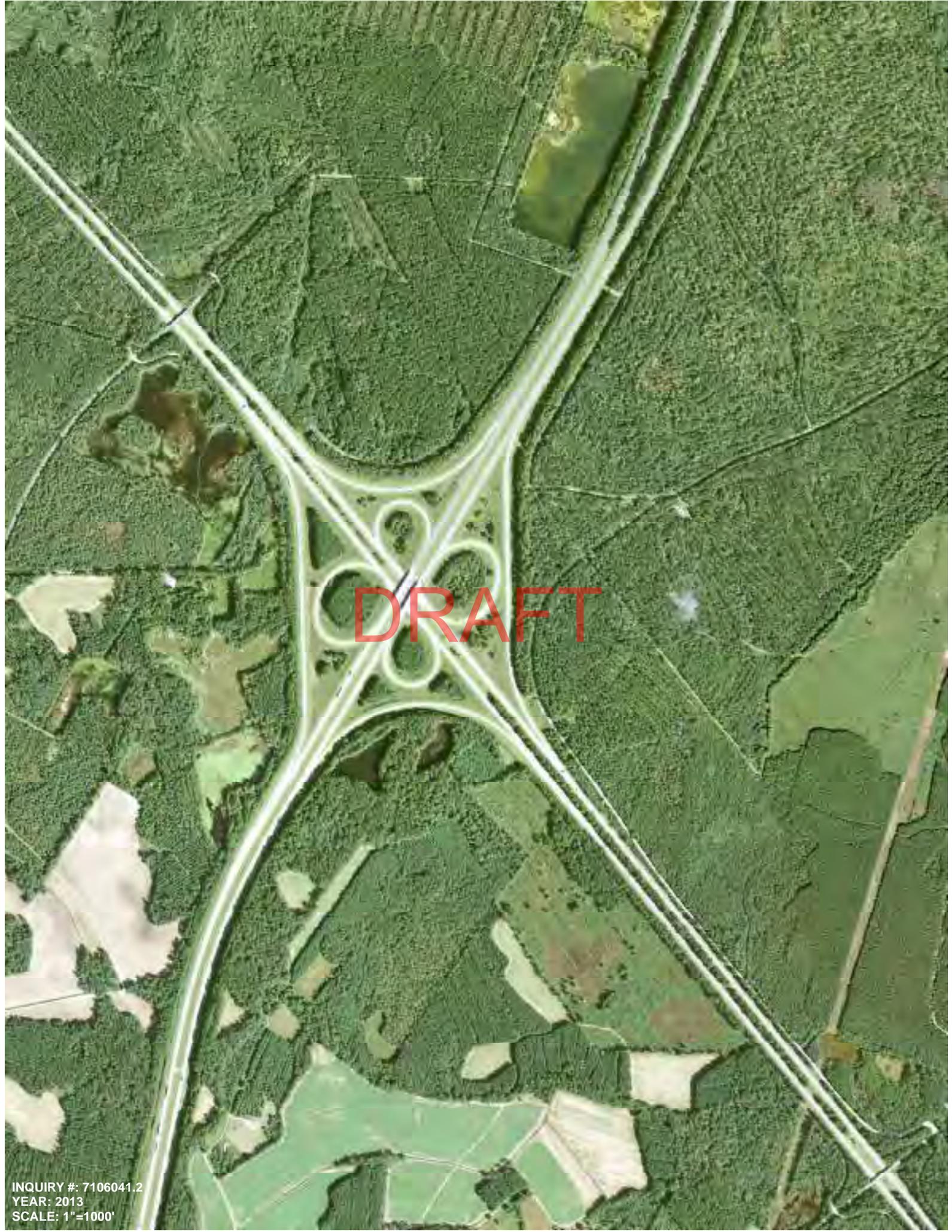
DRAFT

An aerial photograph showing a proposed multi-level highway interchange. The interchange features several overpasses and ramps connecting two main roadways. The surrounding landscape is a mix of green fields, some with distinct patterns, and areas of bare earth or light-colored soil. A large, semi-circular pond is visible in the upper right quadrant. The word "DRAFT" is overlaid in large, red, semi-transparent letters across the center of the image.

DRAFT



DRAFT



DRAFT



DRAFT

An aerial photograph of a highway interchange. The interchange features a central diamond-shaped structure with two circular loops. Two main roads, likely highways, cross the interchange at right angles. The surrounding landscape is a mix of green fields, brown patches, and some water bodies. A large, semi-transparent red watermark with the word "DRAFT" is centered over the interchange.

DRAFT



I-95 Extended Study Area

I-95

Bowman, SC 29018

Inquiry Number: 7172876.5

November 08, 2022

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The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

11/08/22

Site Name:

I-95 Extended Study Area
I-95
Bowman, SC 29018
EDR Inquiry # 7172876.5

Client Name:

ARM Environmental Services
1210 First Street South Ext
Columbia, SC 29209
Contact: Richard Ciccolella



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1995	1"=500'	Acquisition Date: January 01, 1995	USGS/DOQQ
1964	1"=500'	Flight Date: October 17, 1964	USGS
1961	1"=500'	Flight Date: October 16, 1961	USGS

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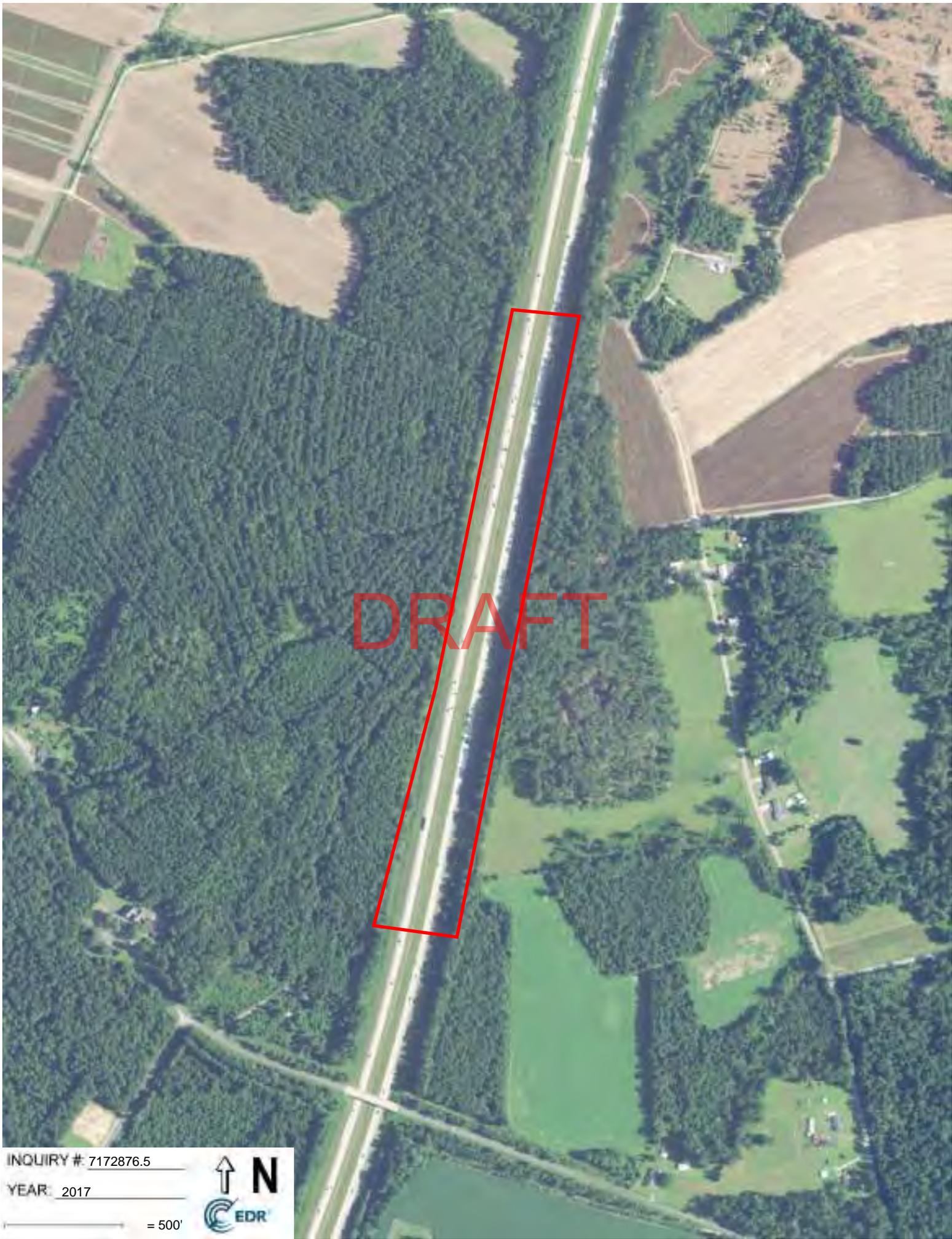
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INQUIRY # 7172876.5

YEAR: 2009

— = 500'





INQUIRY # 7172876.5

YEAR: 2006

— = 500'





DRAFT

INQUIRY # 7172876.5

YEAR: 1995

↑ N

EDR

— = 500'



DRAFT

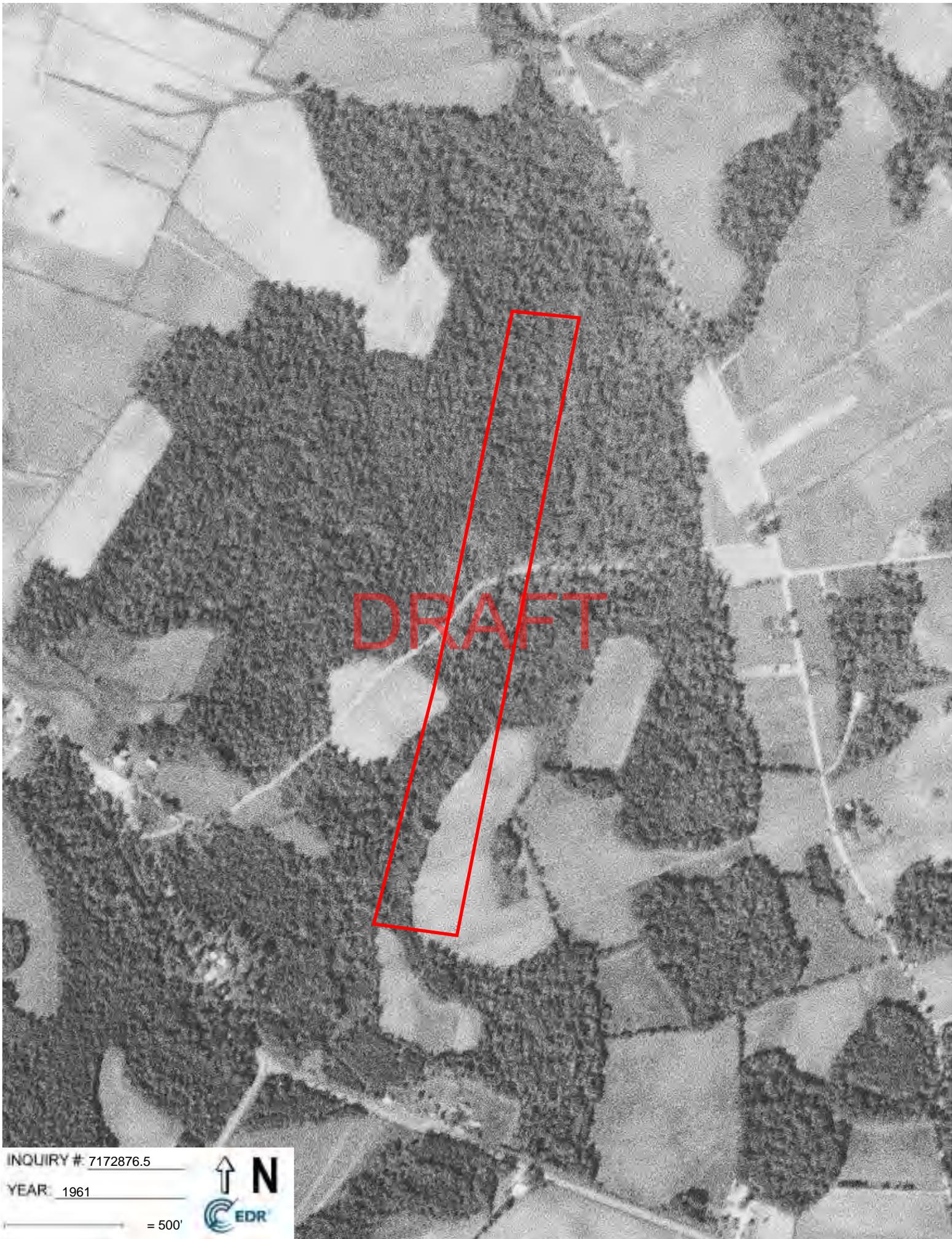
INQUIRY # 7172876.5

YEAR: 1964

↑ N

EDR

— = 500'



INQUIRY # 7172876.5

YEAR: 1961

— = 500'



I-26 / I-95 Interchange Improvements

I-26 / I-95 Interchange Improvements

Bowman, SC 29018

Inquiry Number: 7106041.1

September 02, 2022

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EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

09/02/22

Site Name:

I-26 / I-95 Interchange Improve
I-26 / I-95 Interchange Improve
Bowman, SC 29018
EDR Inquiry # 7106041.1

Client Name:

ARM Environmental Services
1210 First Street South Ext
Columbia, SC 29209
Contact: Richard Ciccolella



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ARM Environmental Services were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

Coordinates:

P.O.#	NA	Latitude:	33.319104 33° 19' 9" North
Project:	16-318-22	Longitude:	-80.5484 -80° 32' 54" West
		UTM Zone:	Zone 17 North
		UTM X Meters:	542034.25
		UTM Y Meters:	3686754.75
		Elevation:	108.41' above sea level

Maps Provided:

2020
2017
2014
1982
1943
1921
1920

DRAFT

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2020 Source Sheets



Wadboo Swamp
2020
7.5-minute, 24000

2017 Source Sheets



Wadboo Swamp
2017
7.5-minute, 24000

DRAFT

2014 Source Sheets



Wadboo Swamp
2014
7.5-minute, 24000

1982 Source Sheets



Wadboo Swamp
1982
7.5-minute, 24000
Aerial Photo Revised 1974

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets



Bowman
1943
15-minute, 62500
Aerial Photo Revised 1941

1921 Source Sheets



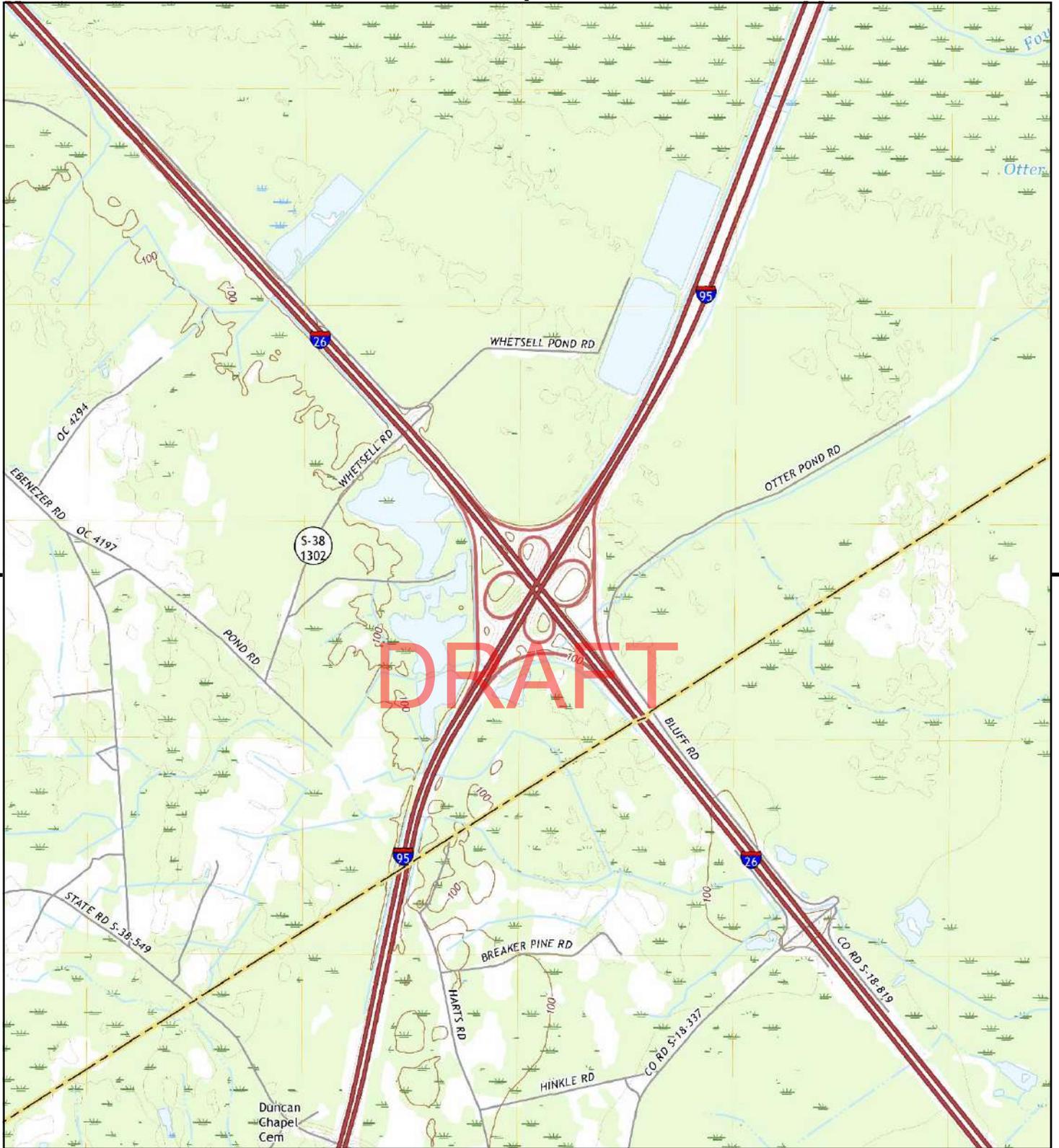
Bowman
1921
15-minute, 62500

DRAFT

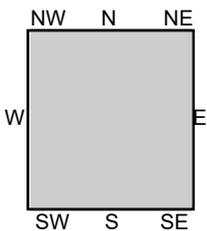
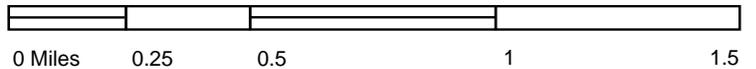
1920 Source Sheets



Bowman
1920
15-minute, 48000



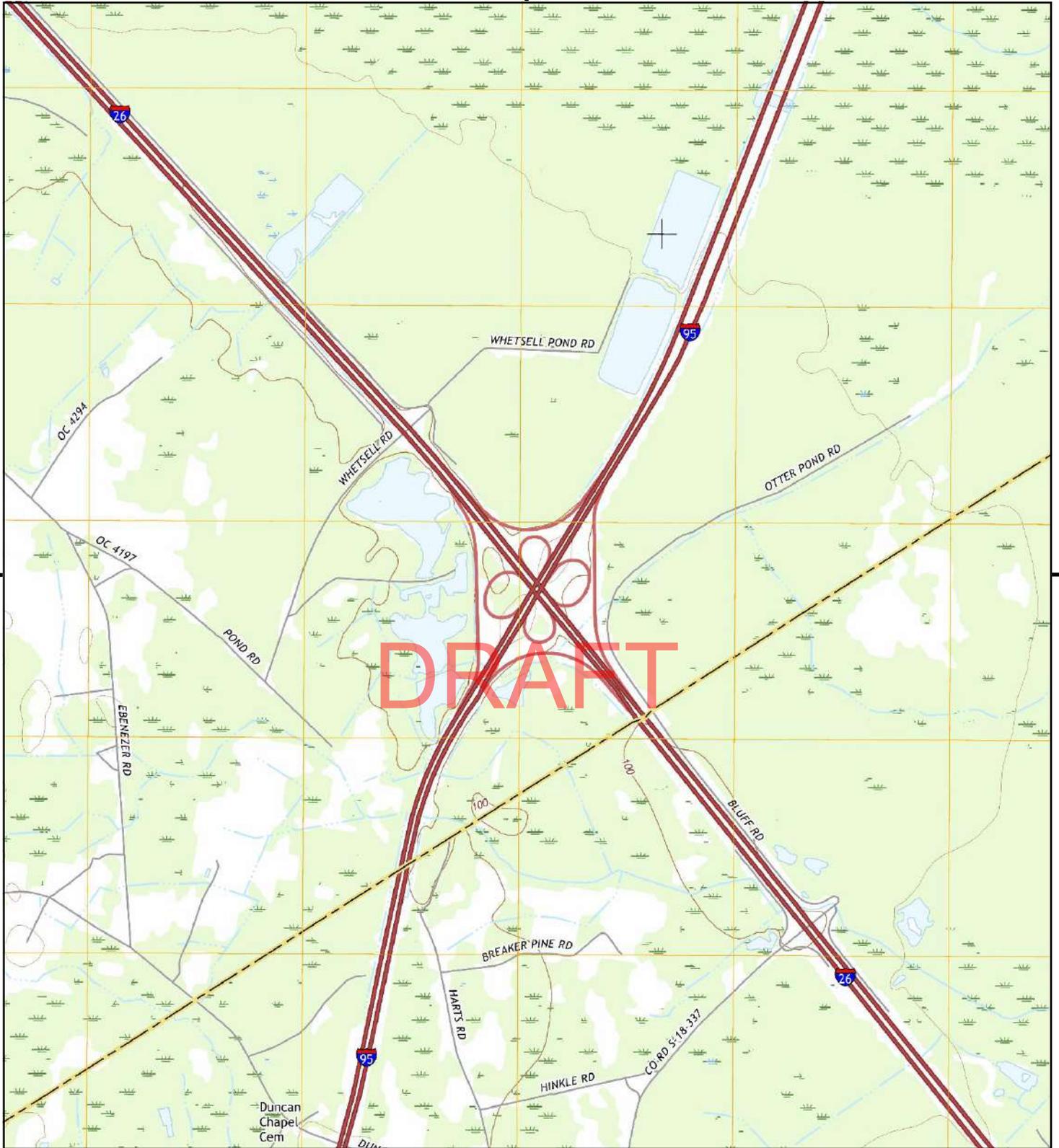
This report includes information from the following map sheet(s).



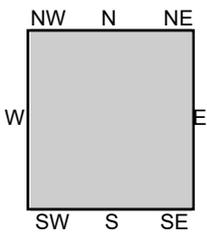
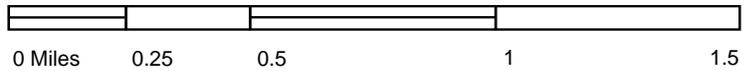
TP, Wadboo Swamp, 2020, 7.5-minute

SITE NAME: I-26 / I-95 Interchange Improvements
ADDRESS: I-26 / I-95 Interchange Improvements
 Bowman, SC 29018
CLIENT: ARM Environmental Services





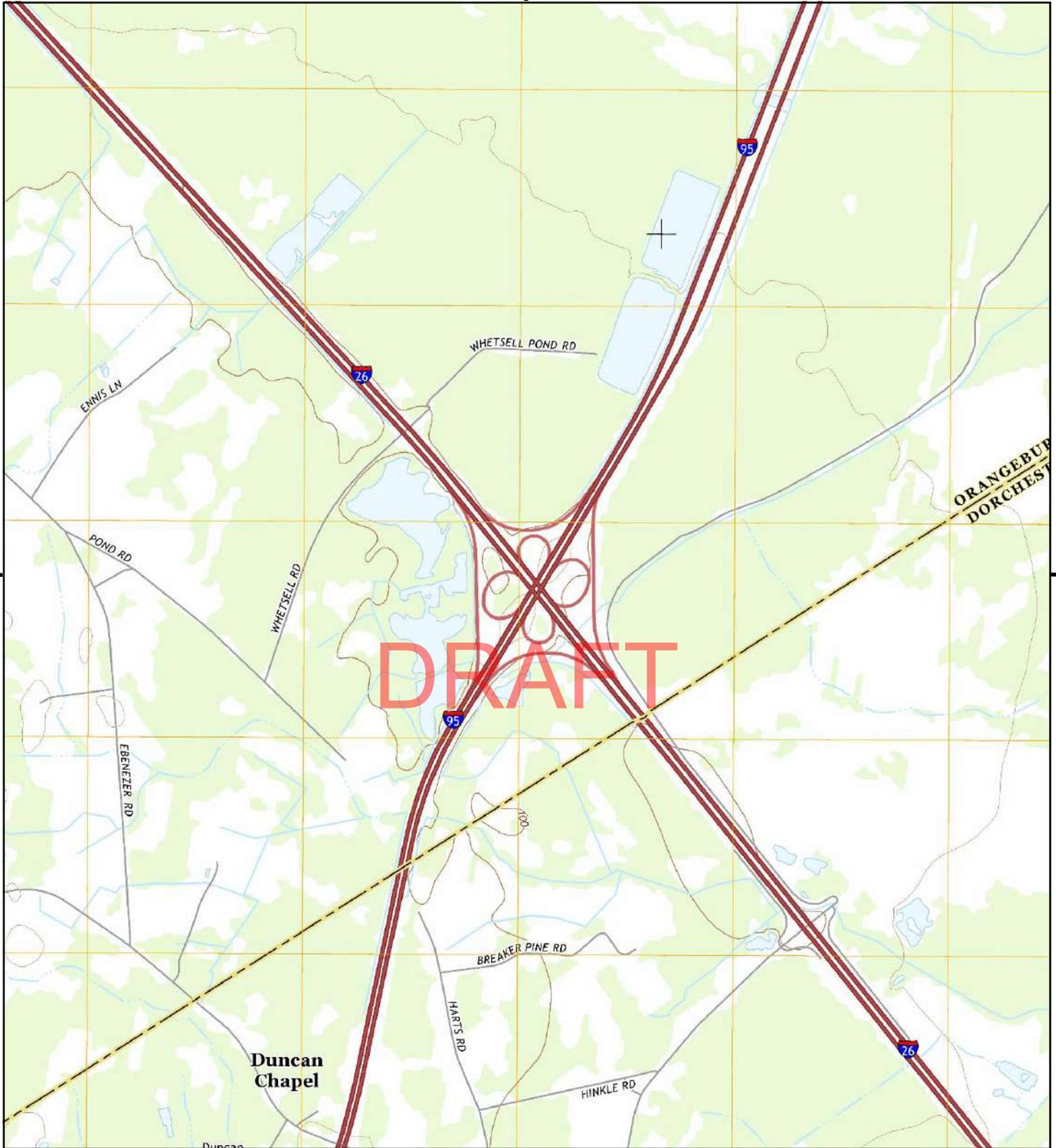
This report includes information from the following map sheet(s).



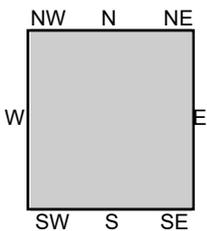
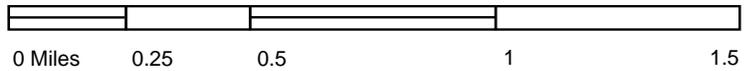
TP, Wadboo Swamp, 2017, 7.5-minute

SITE NAME: I-26 / I-95 Interchange Improvements
ADDRESS: I-26 / I-95 Interchange Improvements
 Bowman, SC 29018
CLIENT: ARM Environmental Services





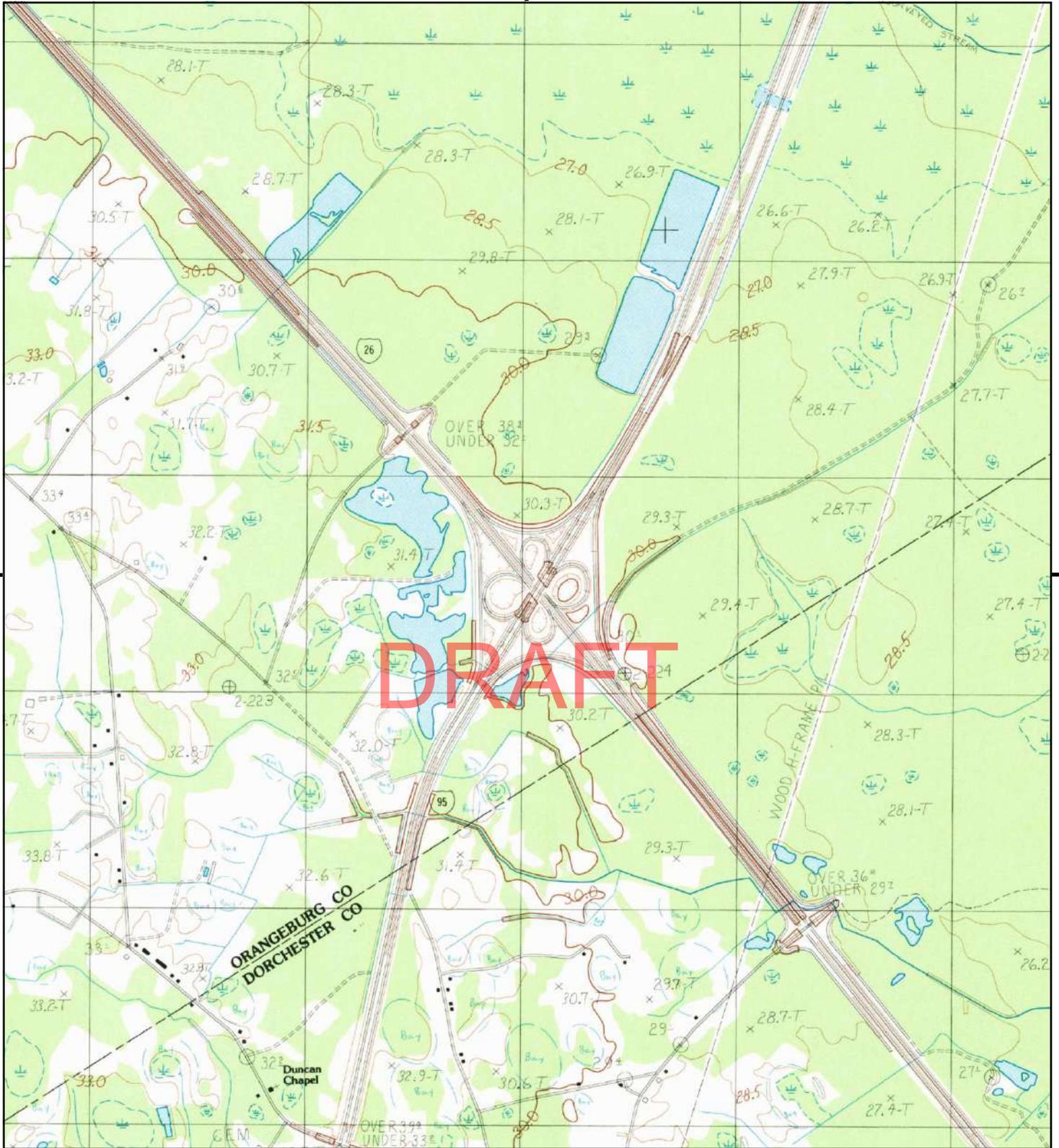
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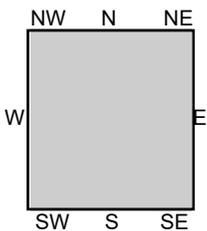
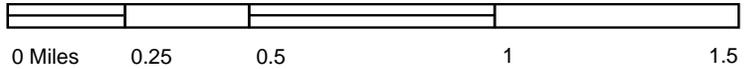
TP, Wadboo Swamp, 2014, 7.5-minute

SITE NAME: I-26 / I-95 Interchange Improvements
ADDRESS: I-26 / I-95 Interchange Improvements
 Bowman, SC 29018
CLIENT: ARM Environmental Services





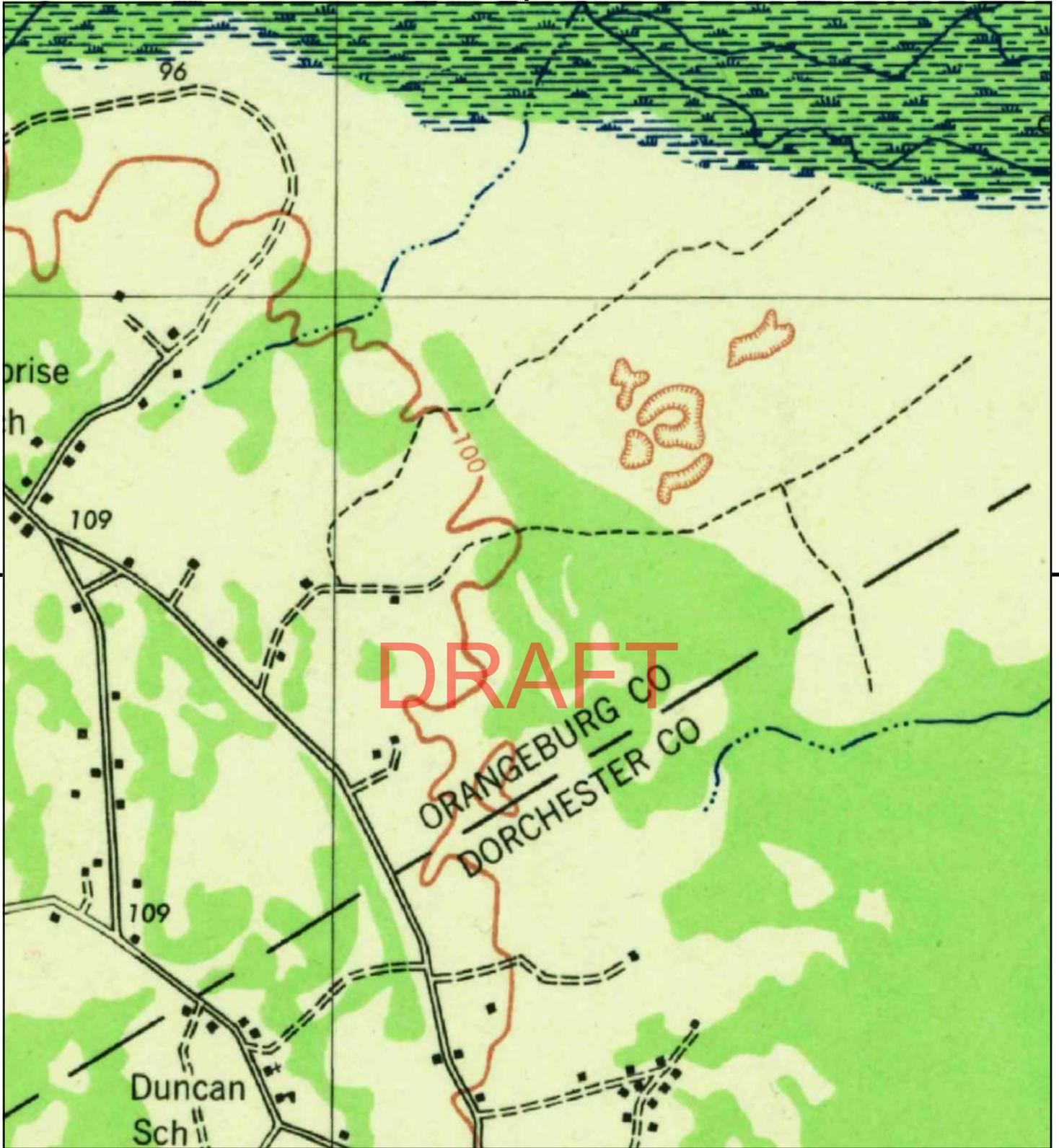
This report includes information from the following map sheet(s).



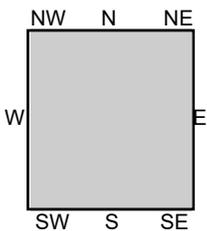
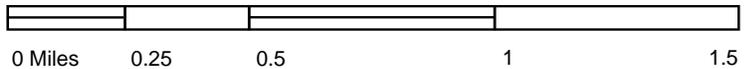
TP, Wadboo Swamp, 1982, 7.5-minute

SITE NAME: I-26 / I-95 Interchange Improvements
ADDRESS: I-26 / I-95 Interchange Improvements
 Bowman, SC 29018
CLIENT: ARM Environmental Services





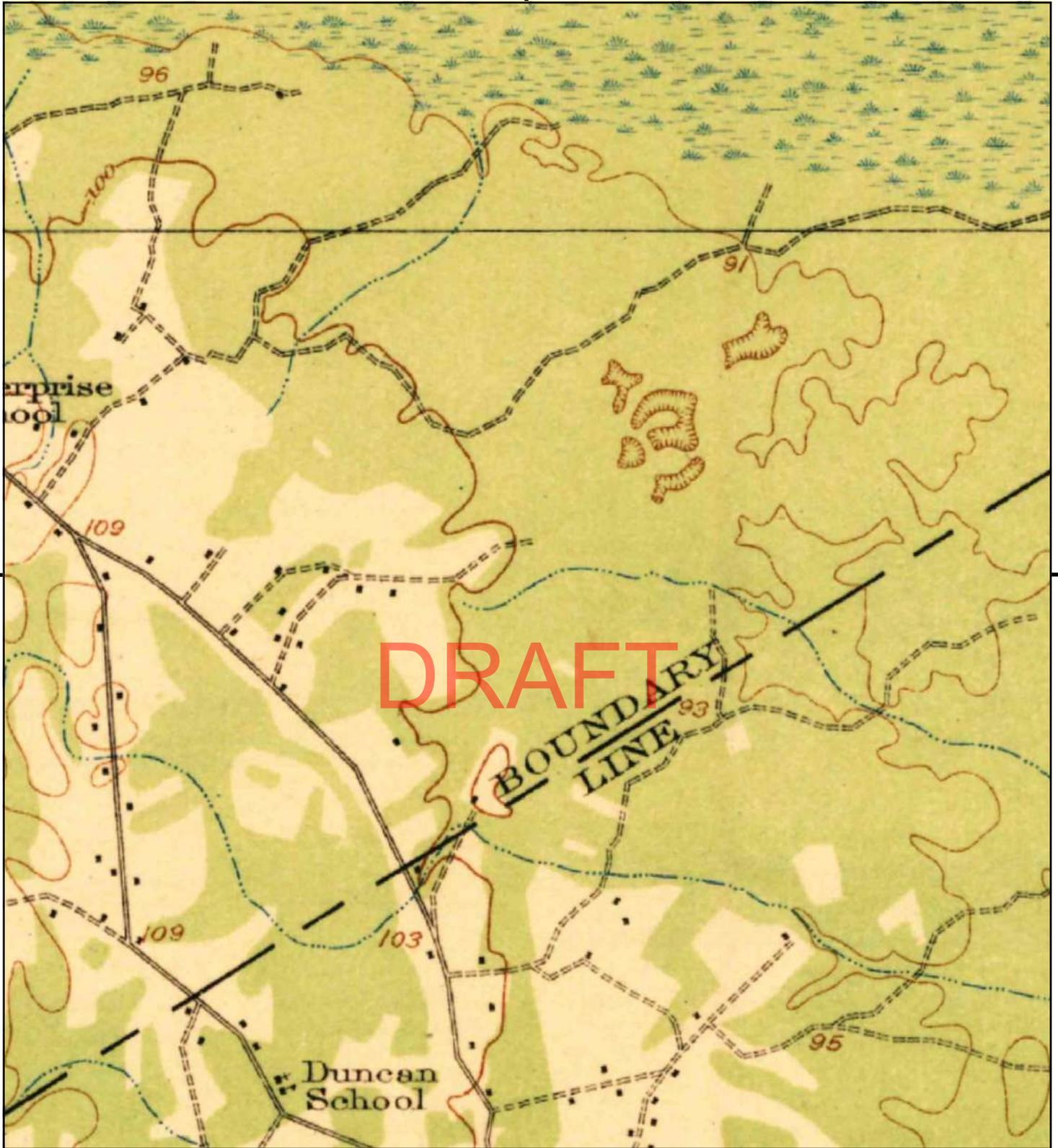
This report includes information from the following map sheet(s).



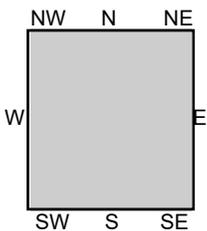
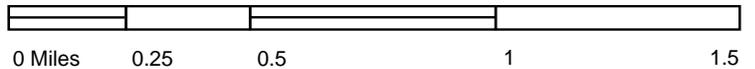
TP, Bowman, 1943, 15-minute

SITE NAME: I-26 / I-95 Interchange Improvements
 ADDRESS: I-26 / I-95 Interchange Improvements
 Bowman, SC 29018
 CLIENT: ARM Environmental Services





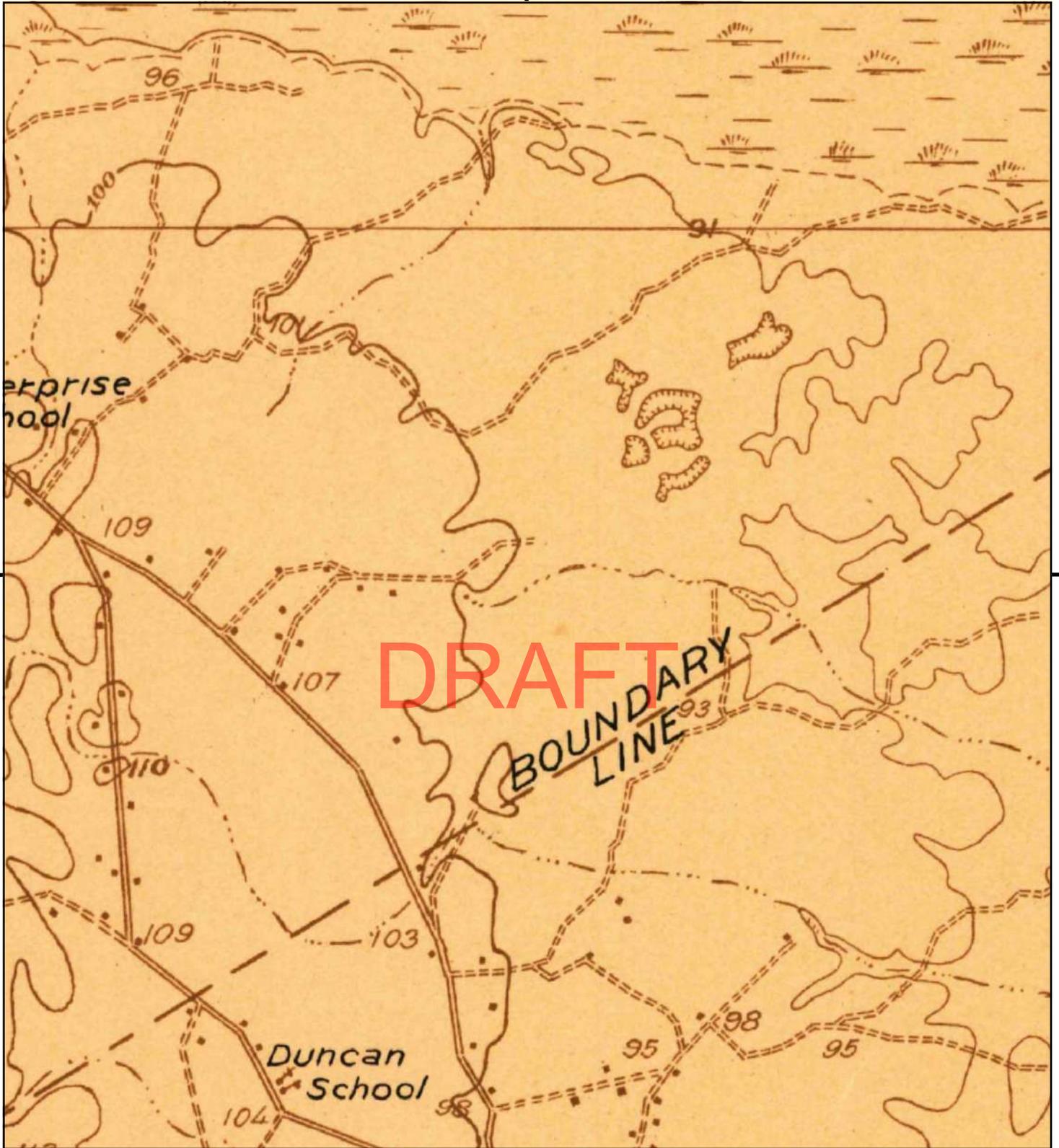
This report includes information from the following map sheet(s).



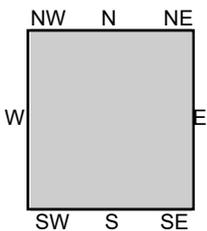
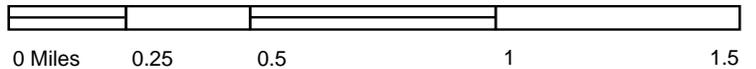
TP, Bowman, 1921, 15-minute

SITE NAME: I-26 / I-95 Interchange Improvements
 ADDRESS: I-26 / I-95 Interchange Improvements
 Bowman, SC 29018
 CLIENT: ARM Environmental Services





This report includes information from the following map sheet(s).



TP, Bowman, 1920, 15-minute

SITE NAME: I-26 / I-95 Interchange Improvements
 ADDRESS: I-26 / I-95 Interchange Improvements
 Bowman, SC 29018
 CLIENT: ARM Environmental Services



17.5 Regulatory Records Documentation

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I-26 / I-95 Interchange Improvements

I-26 / I-95 Interchange Improvements

Bowman, SC 29018

Inquiry Number: 7106041.5s

September 02, 2022

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EDR Area / Corridor Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Government Records Searched/Data Currency Tracking	GR-1

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: Spills Database List

A review of the SPILLS list, as provided by EDR, and dated 05/26/2022 has revealed that there is 1 SPILLS site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
SADDLE TANKS Incident Name: 200002015 Incident ID number: 389993	I-95 AND I-26	1 / 5	24

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

SHWS: Site Assessment Section Project List

A review of the SHWS list, as provided by EDR, and dated 03/10/2022 has revealed that there is 1 SHWS site within approximately 1 mile of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
WHETSELL FARM SITE EPA ID: SCR000783795	1452 DUNCAN CHAPEL R	SW 1/2 - 1 (0.808 mi.)	2 / 7	24

DRAFT

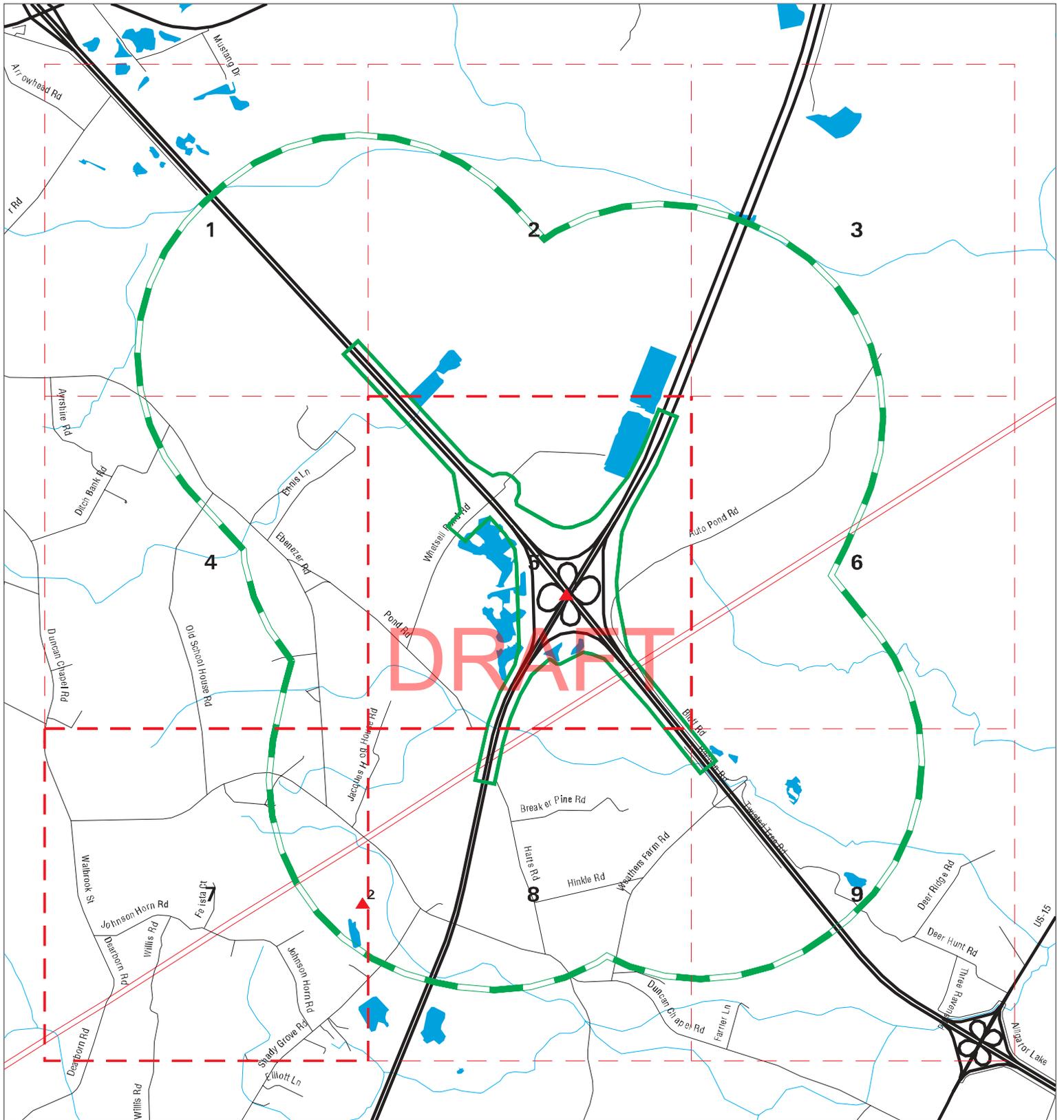
MAPPED SITES SUMMARY

Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
1 / 5	SADDLE TANKS	I-95 AND I-26	SPILLS	TP
2 / 7	WHETSELL FARM SITE	1452 DUNCAN CHAPEL R	SHWS, ALLSITES	4267 0.808 SW

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Key Map - 7106041.5s



- ▲ Sites
- ▬ Target Property
- ▬ Search Buffer
- ▬ Focus Map - No Sites
- Focus Map - Sites
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA



SITE NAME: I-26 / I-95 Interchange Improvements
ADDRESS: I-26 / I-95 Interchange Improvements
CITY/STATE: Bowman SC
ZIP: 29018

CLIENT: ARM Environmental Services
CONTACT: Richard Ciccolella
INQUIRY #: 7106041.5s
DATE: 09/02/22 8:52 AM

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
SHWS	1.000		0	0	0	1	NR	1
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
LUST	0.500		0	0	0	NR	NR	0

DRAFT

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
RCR	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		0	0	0	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
GWCI	0.500		0	0	0	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

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EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
---------	-------	--	---	---	---	---	----	---

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		1	0	0	0	1	0	2

NOTES:

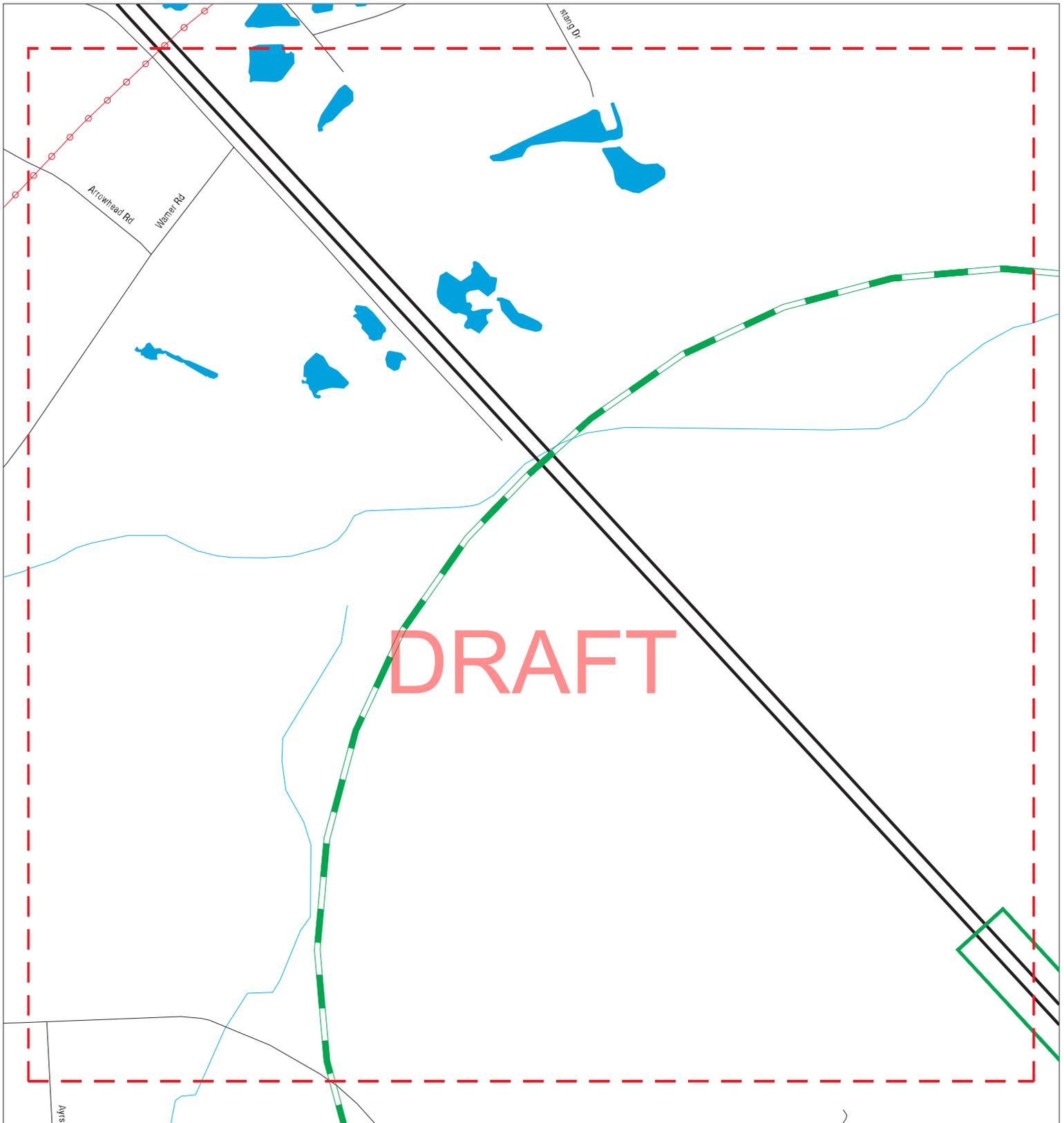
TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

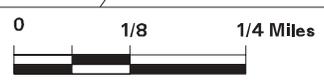
DRAFT

Focus Map - 1 - 7106041.5s



DRAFT

- | | | |
|--|--|---|
|  Sites |  Focus Map - Sites |  Indian Reservations BIA |
|  Target Property |  Power Line | |
|  Search Buffer |  National Priority List Sites | |
|  Focus Map - No Sites |  Dept. Defense Sites | |



SITE NAME: I-26 / I-95 Interchange Improvements ADDRESS: I-26 / I-95 Interchange Improvements CITY/STATE: Bowman SC ZIP: 29018	CLIENT: ARM Environmental Services CONTACT: Richard Ciccolella INQUIRY #: 7106041.5s DATE: 09/02/22
---	--

MAPPED SITES SUMMARY - FOCUS MAP 1

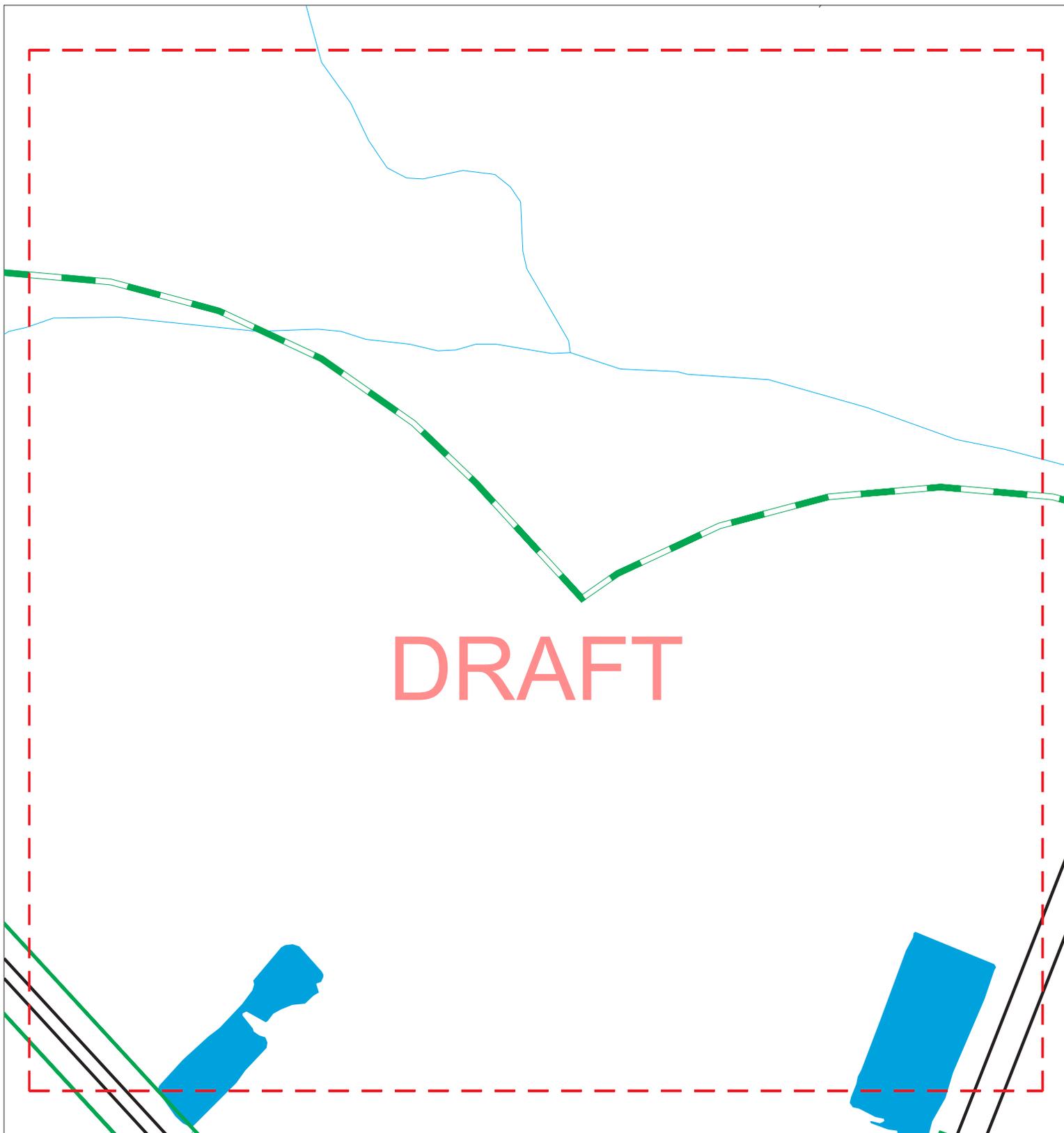
Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

DRAFT

Focus Map - 2 - 7106041.5s



DRAFT

- ▲ Sites
- Focus Map - Sites
- Indian Reservations BIA
- Target Property
- Power Line
- Search Buffer
- National Priority List Sites
- Focus Map - No Sites
- Dept. Defense Sites



SITE NAME: I-26 / I-95 Interchange Improvements
ADDRESS: I-26 / I-95 Interchange Improvements
CITY/STATE: Bowman SC
ZIP: 29018

CLIENT: ARM Environmental Services
CONTACT: Richard Ciccolella
INQUIRY #: 7106041.5s
DATE: 09/02/22

MAPPED SITES SUMMARY - FOCUS MAP 2

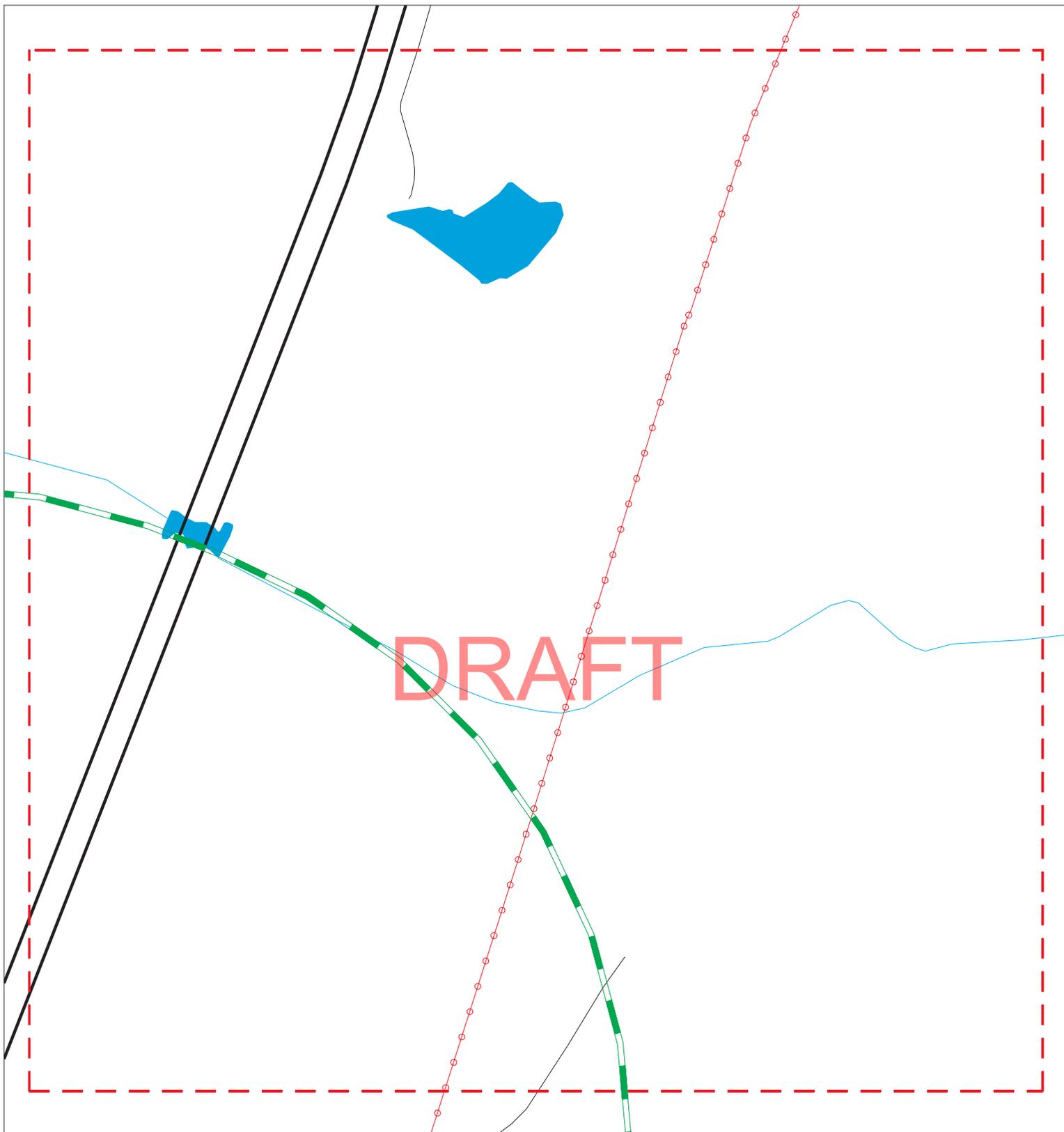
Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

DRAFT

Focus Map - 3 - 7106041.5s



DRAFT

- | | | | |
|--|---|--|--|
|  Sites |  Focus Map - Sites |  Indian Reservations BIA | <p>0 1/8 1/4 Miles</p>  |
|  Target Property |  Power Line |  National Priority List Sites | |
|  Search Buffer |  Dept. Defense Sites | | |
|  Focus Map - No Sites | | | |

SITE NAME: I-26 / I-95 Interchange Improvements
 ADDRESS: I-26 / I-95 Interchange Improvements
 CITY/STATE: Bowman SC
 ZIP: 29018

CLIENT: ARM Environmental Services
 CONTACT: Richard Ciccolella
 INQUIRY #: 7106041.5s
 DATE: 09/02/22

MAPPED SITES SUMMARY - FOCUS MAP 3

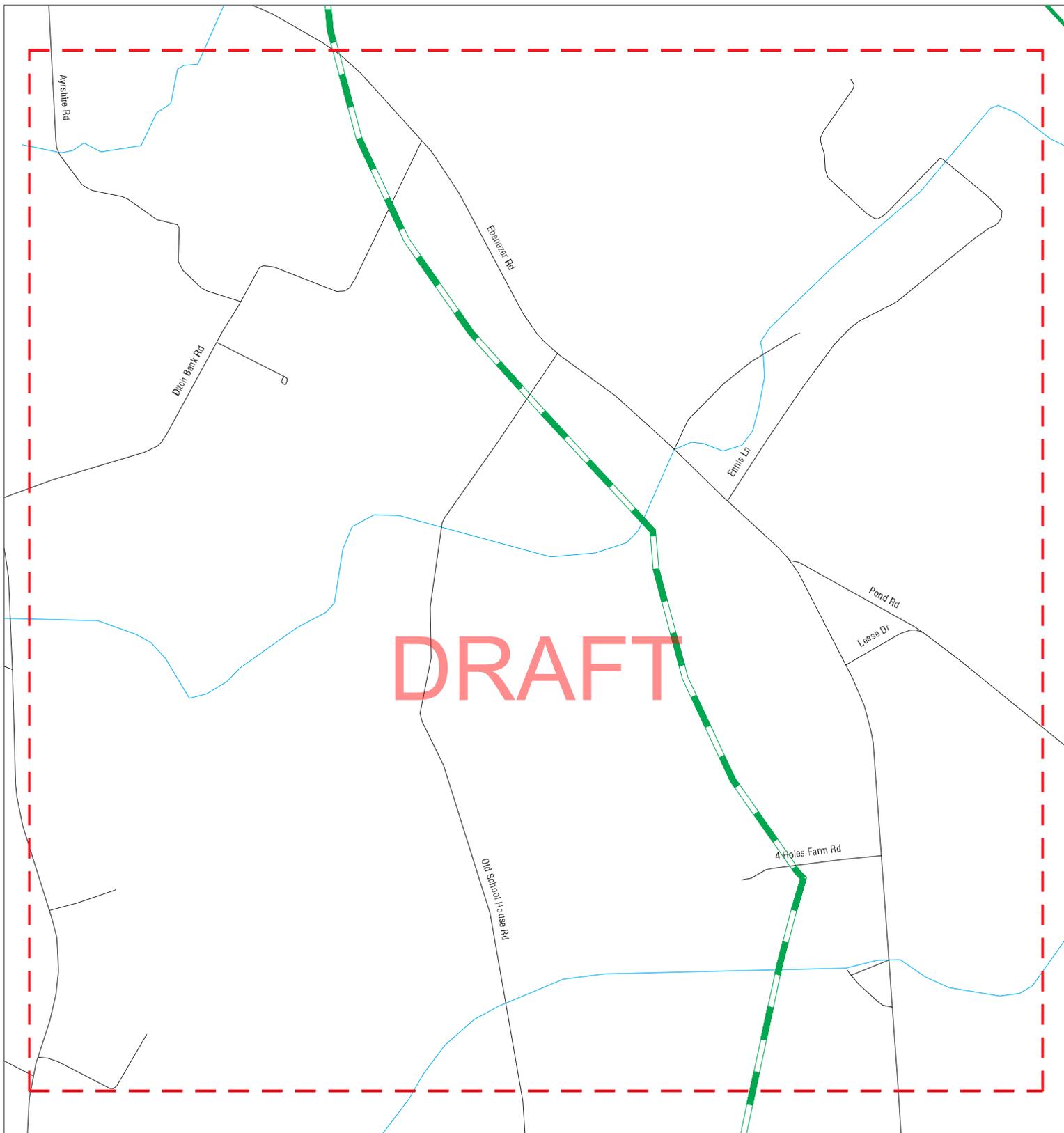
Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

DRAFT

Focus Map - 4 - 7106041.5s



DRAFT

- | | | | | | |
|---|----------------------|---|---------------------|---|------------------------------|
|  | Sites |  | Focus Map - Sites |  | Indian Reservations BIA |
|  | Target Property |  | Power Line |  | National Priority List Sites |
|  | Search Buffer |  | Dept. Defense Sites | | |
|  | Focus Map - No Sites | | | | |



SITE NAME: I-26 / I-95 Interchange Improvements
 ADDRESS: I-26 / I-95 Interchange Improvements
 CITY/STATE: Bowman SC
 ZIP: 29018

CLIENT: ARM Environmental Services
 CONTACT: Richard Ciccolella
 INQUIRY #: 7106041.5s
 DATE: 09/02/22

MAPPED SITES SUMMARY - FOCUS MAP 4

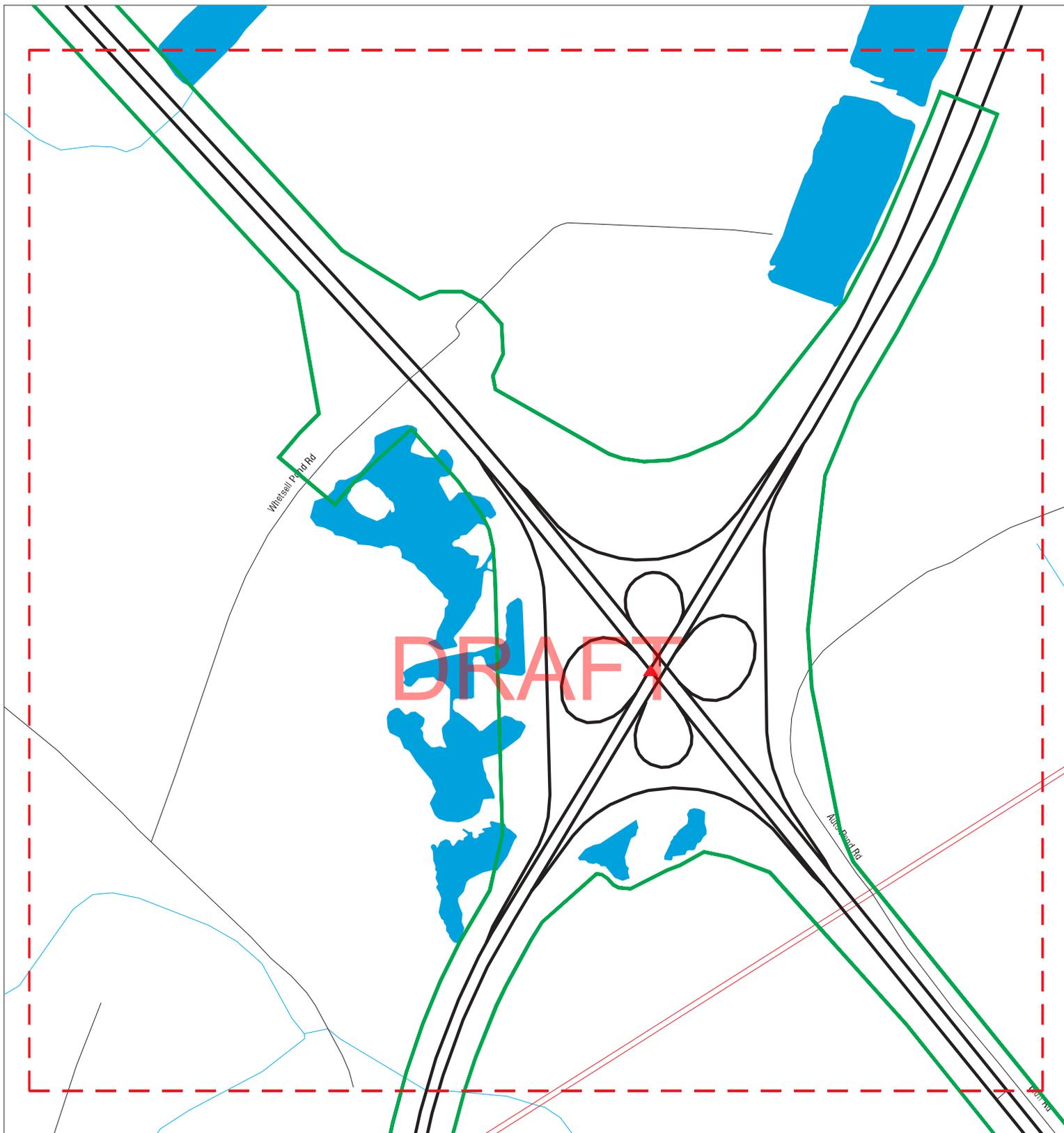
Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

DRAFT

Focus Map - 5 - 7106041.5s



- | | | | |
|---|---|--|---|
|  Sites |  Focus Map - Sites |  Indian Reservations BIA |  |
|  Target Property |  Power Line |  National Priority List Sites | |
|  Search Buffer |  Dept. Defense Sites | | |
|  Focus Map - No Sites | | | |

SITE NAME: I-26 / I-95 Interchange Improvements
ADDRESS: I-26 / I-95 Interchange Improvements
CITY/STATE: Bowman SC
ZIP: 29018

CLIENT: ARM Environmental Services
CONTACT: Richard Ciccolella
INQUIRY #: 7106041.5s
DATE: 09/02/22

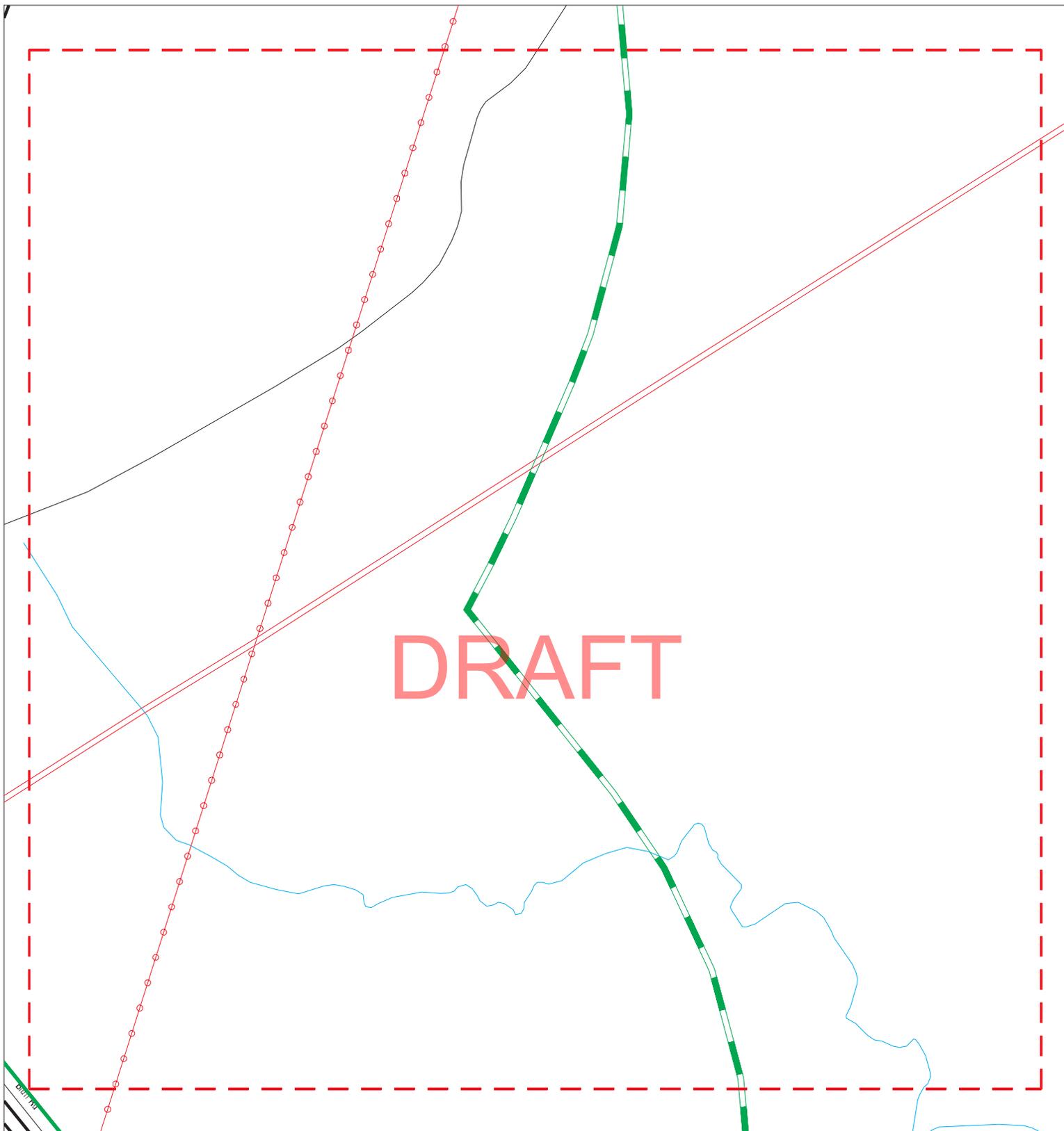
MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
1 / 5	SADDLE TANKS	I-95 AND I-26	SPILLS	TP

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Focus Map - 6 - 7106041.5s



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- | | | |
|--|--|---|
|  Sites |  Focus Map - Sites |  Indian Reservations BIA |
|  Target Property |  Power Line | |
|  Search Buffer |  National Priority List Sites | |
|  Focus Map - No Sites |  Dept. Defense Sites | |



SITE NAME: I-26 / I-95 Interchange Improvements
 ADDRESS: I-26 / I-95 Interchange Improvements
 CITY/STATE: Bowman SC
 ZIP: 29018

CLIENT: ARM Environmental Services
 CONTACT: Richard Ciccolella
 INQUIRY #: 7106041.5s
 DATE: 09/02/22

MAPPED SITES SUMMARY - FOCUS MAP 6

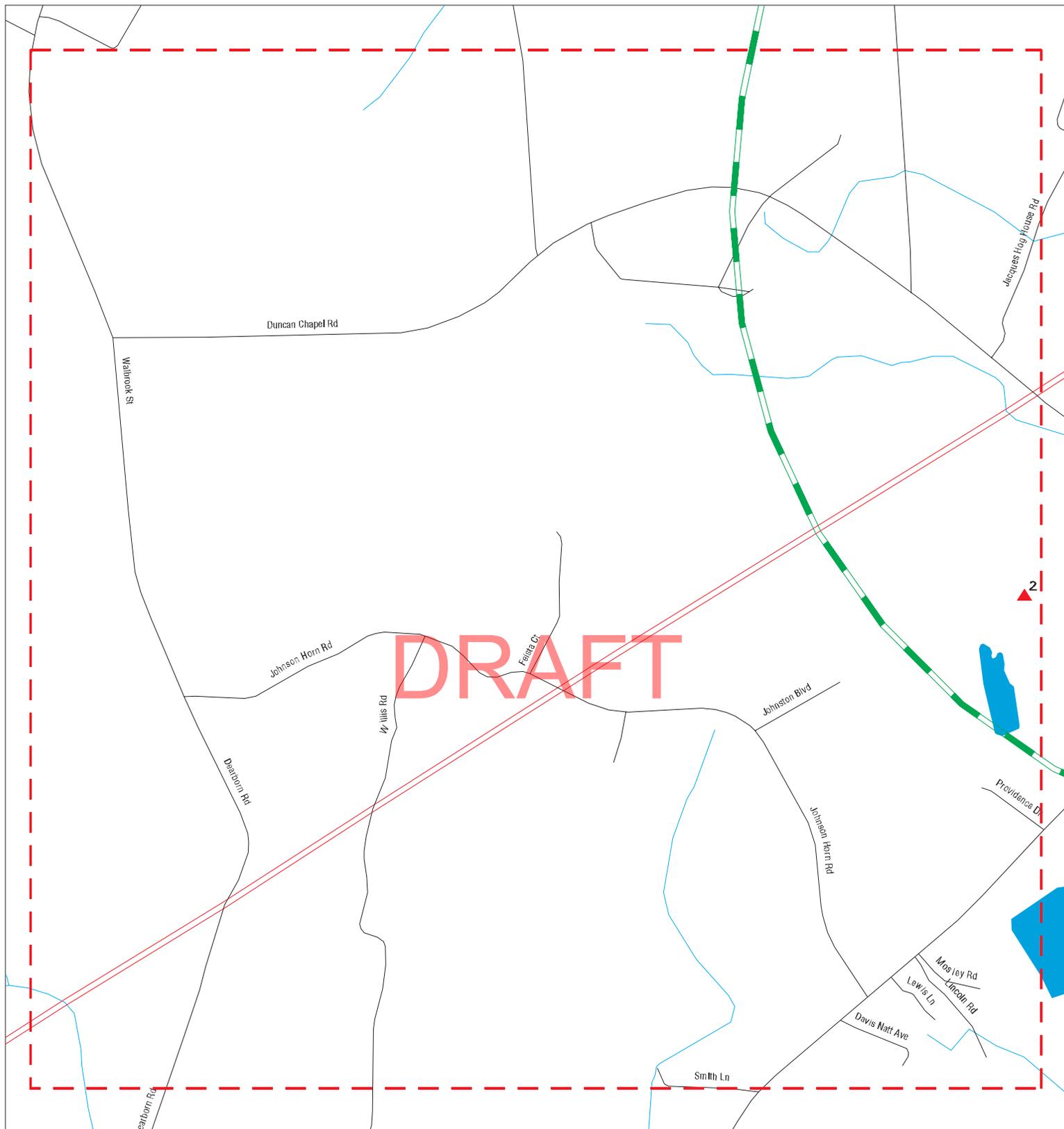
Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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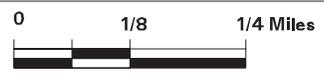
NO MAPPED SITES FOUND

DRAFT

Focus Map - 7 - 7106041.5s



- | | | | | | |
|--|-----------------|--|----------------------|--|------------------------------|
| | Sites | | Focus Map - Sites | | Indian Reservations BIA |
| | Target Property | | Power Line | | National Priority List Sites |
| | Search Buffer | | Focus Map - No Sites | | Dept. Defense Sites |



SITE NAME: I-26 / I-95 Interchange Improvements ADDRESS: I-26 / I-95 Interchange Improvements CITY/STATE: Bowman SC ZIP: 29018	CLIENT: ARM Environmental Services CONTACT: Richard Ciccolella INQUIRY #: 7106041.5s DATE: 09/02/22
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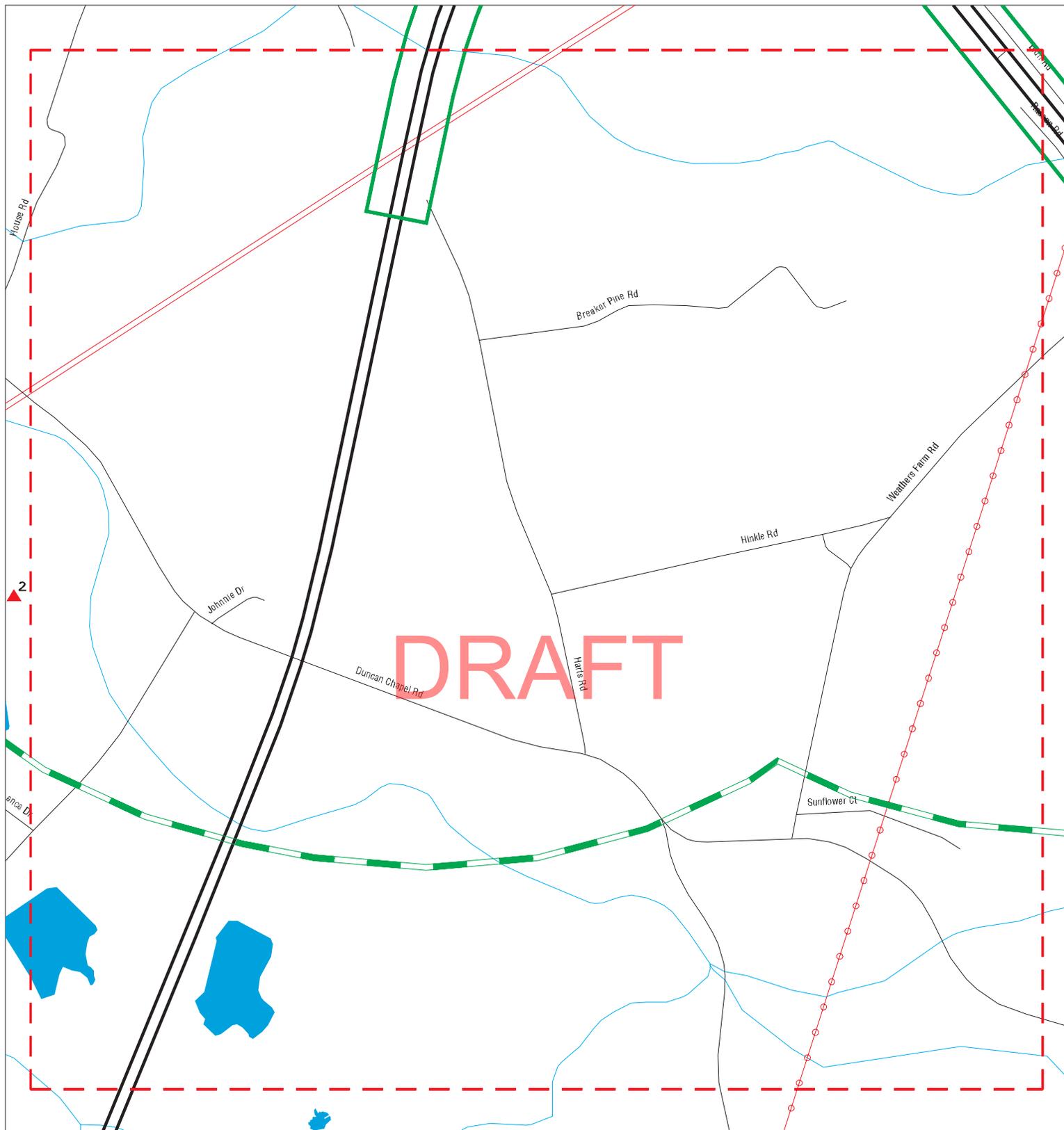
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
2 / 7	WHETSELL FARM SITE	1452 DUNCAN CHAPEL R	SHWS, ALLSITES	4267 0.808 SW

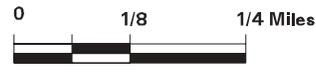
DRAFT

Focus Map - 8 - 7106041.5s



DRAFT

- | | | | | | |
|--|----------------------|---|---------------------|---|------------------------------|
|  | Sites |  | Focus Map - Sites |  | Indian Reservations BIA |
|  | Target Property |  | Power Line |  | National Priority List Sites |
|  | Search Buffer |  | Dept. Defense Sites | | |
|  | Focus Map - No Sites | | | | |



SITE NAME: I-26 / I-95 Interchange Improvements
ADDRESS: I-26 / I-95 Interchange Improvements
CITY/STATE: Bowman SC
ZIP: 29018

CLIENT: ARM Environmental Services
CONTACT: Richard Ciccolella
INQUIRY #: 7106041.5s
DATE: 09/02/22

MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
-----------------------	-----------	---------	-------------------	-------------------------------

NO MAPPED SITES FOUND

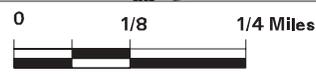
DRAFT

Focus Map - 9 - 7106041.5s



DRAFT

- | | | |
|--|--|---|
|  Sites |  Focus Map - Sites |  Indian Reservations BIA |
|  Target Property |  Power Line | |
|  Search Buffer |  National Priority List Sites | |
|  Focus Map - No Sites |  Dept. Defense Sites | |



SITE NAME: I-26 / I-95 Interchange Improvements ADDRESS: I-26 / I-95 Interchange Improvements CITY/STATE: Bowman SC ZIP: 29018	CLIENT: ARM Environmental Services CONTACT: Richard Ciccolella INQUIRY #: 7106041.5s DATE: 09/02/22
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MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
I-26 / I-95 INTERCHANGE IMPROVEMENTS
BOWMAN, SC 29018

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
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NO MAPPED SITES FOUND

DRAFT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

1 **SADDLE TANKS**
Target **I-95 AND I-26**
Property **ORANGEBURG (County), SC**

SPILLS **S104829083**
N/A

Actual: **110 ft.**
Focus Map: **5**

SPILL:
Name: SADDLE TANKS
Address: I-95 AND I-26
City,State,Zip: SC
Incident ID number: 389993
Incident Name: 200002015
District Logged In: Not reported
Date DHEC notified: 07/25/2000
DHEC notification: 904
Observed date: 07/25/2000
observed Time: 900
Spill Date: 07/25/2000
Spill Time: 900
Duration: Not reported
Created Date: 07/25/2000
Updated Date: 08/03/2000
District Name: Aiken EQC Office
PRP Last Name: RIM INTERNATIONAL TRUCKING
PRP First Name: Not reported
Incident substance type: Oil
Received by Name: JIM RICE
Reviewed by Name: JAMES BURCKHALTER
Transportation: Y
Surface water affected: No
Lead Investigator Name: JAMES BURCKHALTER
CCBEP: No
Water body: Not reported
Caller Last Name: Not reported
Caller name: Not reported
Caller phone number: Not reported
Caller extension: Not reported
Caller organization: Not reported
Substance: DIESEL
Quantity: 100
Units: Gallons
Recovered: 100
Recovered Units: Gallons
Comments: Not reported

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2 **WHETSELL FARM SITE**
SW **1452 DUNCAN CHAPEL RD**
1/2-1 **BOWMAN, SC 29018**
0.808 mi.
4267 ft.

SHWS **S120052879**
ALLSITES **N/A**

Actual: **107 ft.**
Focus Map: **7**

SHWS:
Name: WHETSELL FARM SITE
Address: 1452 DUNCAN CHAPEL RD
City,State,Zip: BOWMAN, SC 29018
EPA ID: SCR000783795

ALLSITES:
Name: WHETSELL FARM SITE
Address: 1452 DUNCAN CHAPEL RD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WHETSELL FARM SITE (Continued)

S120052879

City,State,Zip: BOWMAN, SC 29018
Brownfield: Not reported
Brownfield Type: Not reported
Funds Used: No
Resp Action: Yes
Permit Number: Not reported
Program: Not reported
Owner: Please call 803-898-2000 for this information.
Project Status Code: ACTIVE
Execute Date: Not reported
Restrictions Filed Date: Not yet recorded.
Cleanup Contract Complete Date: Not reported
Project Complete Date: Not yet completed.
File Number: 56289
Land Use Restriction: Not yet determined.
Contamination On Site: Pesticides/Herbicides
Acreage: 38
Soil Contamination Desc: Not reported
Soil COCS: Not reported
SW Sed Contamination Desc: Not reported
SW COCS: Not reported
GW Contamination Desc: Not reported
GW COCS: Not reported
Air Contamination Desc: Not reported
Air COCS: Not reported
Lat: 33.30322
Long: -80.56726

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ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BOWMAN	2008892080		I-95 AND I-26 INTERCHANGE		ERNS
BOWMAN	9044067		EXIT 165 I-26		ERNS
BOWMAN	2019258435		I-26 WESTBOUND		ERNS
BOWMAN	S107692262	FUEL SPILL	I-26 W		SPILLS
BOWMAN	S117361650		I-26 EASTBOUND @ MILE MARKER 159		SPILLS
HARLEYVILLE	2004725811		HIGHWAY 453 N AND I-26	29448	ERNS
HARLEYVILLE	95276827		HIGHWAY 453 N AND I-26	29448	ERNS
HARLEYVILLE	94255883		HIGHWAY 453 N AND I-26	29448	ERNS
HARLEYVILLE	94258812		HIGHWAY 453 N AND I-26	29448	ERNS
HARLEYVILLE	2003706351		HIGHWAY 453 N AND I-26	29448	ERNS
HARLEYVILLE	98466603		HWY 453 AT I-26	29448	ERNS
HARLEYVILLE	97374867		HWY 453 AT I-26	29448	ERNS
HARLEYVILLE	9159012		I-26 AT EXIT 173		ERNS
HARLEYVILLE	2018227048		I-26 S, MM 181		ERNS
HARLEYVILLE	2008450502	I-26 EB EXIT 172B	I-26 EB EXIT 172B		HMIRS
HARLEYVILLE	S106966754	SADDLE TANK	I-26 W MM 179		SPILLS
HARLEYVILLE	S111008790		JUDGE ST @ I-26		SPILLS
HARLEYVILLE	S109015083		I-26 @ MILE MARKER 172-B		SPILLS
ORANGEBURG COUNTY	S105375610	I-95 MM 100 NORHT BOUND LANE	I-95 MM 100 N BOUND		SPILLS
ORANGEBURG COUNTY	S105039823	SADDLE TANKS	I-95 MILE MARKER 88		SPILLS
ORANGEBURG COUNTY	S105703574	LIQUOR SPILL	I-26 159 MM		SPILLS
ORANGEBURG COUNTY	S104829066	SADDLE TANKS	I-26 MARKER 157		SPILLS
ORANGEBURG COUNTY	S105958217	TRACTOR SADDLE TANK & CAR GAS TANK	I-26 E MM159		SPILLS
ORANGEBURG COUNTY	S106044889	FUEL SPILL	I-26 & I-95 INTERSECTION		SPILLS
ORANGEBURG COUNTY	S106802646	SADDLE TANK	I-26 E MM 151		SPILLS
ST GEORGE	1007243234	TRAVELAND OF ST GEORGE	I-95 & HWY 178	29477	FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: N/A
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: N/A
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMs by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 800-424-9346
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022	Source: EPA
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/16/2022	Source: Department of the Navy
Date Data Arrived at EDR: 05/19/2022	Telephone: 843-820-7326
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/03/2022
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/16/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2022	Telephone: 703-603-0695
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 06/15/2022

Telephone: 202-267-2180

Date Made Active in Reports: 06/21/2022

Last EDR Contact: 06/15/2022

Number of Days to Update: 6

Next Scheduled EDR Contact: 10/03/2022

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Site Assessment Section Project List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/10/2022

Source: Department of Health and Environmental Control

Date Data Arrived at EDR: 03/17/2022

Telephone: 803-898-0835

Date Made Active in Reports: 04/08/2022

Last EDR Contact: 08/30/2022

Number of Days to Update: 22

Next Scheduled EDR Contact: 12/19/2022

Data Release Frequency: Semi-Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Permitted Landfills List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/09/2022

Source: Department of Health and Environmental Control

Date Data Arrived at EDR: 06/09/2022

Telephone: 803-734-5165

Date Made Active in Reports: 06/13/2022

Source: Department of Health and Environmental Control, GIS Section

Number of Days to Update: 4

Telephone: 803-896-4084

Last EDR Contact: 08/30/2022

Next Scheduled EDR Contact: 12/19/2022

Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/21/2022

Source: Department of Health and Environmental Control

Date Data Arrived at EDR: 04/21/2022

Telephone: 803-898-4350

Date Made Active in Reports: 05/04/2022

Last EDR Contact: 07/14/2022

Number of Days to Update: 13

Next Scheduled EDR Contact: 10/31/2022

Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022

Source: EPA Region 10

Date Data Arrived at EDR: 06/13/2022

Telephone: 206-553-2857

Date Made Active in Reports: 08/16/2022

Last EDR Contact: 06/13/2022

Number of Days to Update: 64

Next Scheduled EDR Contact: 10/31/2022

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3372
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022	Source: EPA, Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-7439
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022	Source: EPA Region 4
Date Data Arrived at EDR: 06/13/2022	Telephone: 404-562-8677
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021	Source: EPA Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/13/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6271
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-6597
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

UST: Comprehensive Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/07/2022	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 01/07/2022	Telephone: 803-896-7957
Date Made Active in Reports: 03/23/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank List

Registered Aboveground Storage Tanks.

Date of Government Version: 03/25/2004	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 08/04/2004	Telephone: 803-898-4350
Date Made Active in Reports: 09/23/2004	Last EDR Contact: 08/15/2022
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022	Source: EPA Region 4
Date Data Arrived at EDR: 06/13/2022	Telephone: 404-562-9424
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022	Source: EPA Region 9
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3368
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6137
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022	Source: EPA, Region 1
Date Data Arrived at EDR: 06/13/2022	Telephone: 617-918-1313
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022	Source: EPA Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-6136
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-7591
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 06/13/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

RCR: Registry of Conditional Remedies

The Bureau of Land and Waste Management established this Registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/13/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 78

Source: Department of Health & Environmental Control
Telephone: 803-896-4000
Last EDR Contact: 08/30/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

AUL: Land Use Controls

The term Land Use Controls or "LUCs" encompass institutional controls, such as those involved in real estate interests, governmental permitting, zoning, public advisories, deed notices, and other legal restrictions. The term also includes restrictions on access, whether achieved by means of engineered barriers (e.g., fence or concrete pad) or by human means (e.g., the presence of security guards). Additionally, the term includes both affirmative measures to achieve the desired restrictions (e.g., night lighting of an area) and prohibitive directives (e.g., restrictions on certain types of wells for the duration of the corrective action). Considered altogether, the LUCs for a facility will provide a tool for how the property should be used in order to maintain the level of protectiveness that one or more corrective actions were designed to achieve.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/08/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 79

Source: Department of Health & Environmental Control
Telephone: 803-896-4049
Last EDR Contact: 06/08/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Sites

Sites participating in the Voluntary Cleanup Program. Once staff and a non-responsible party have agreed upon an approved scope of work for a site investigation and/or remediation, the party enters into a voluntary cleanup contract. Staff oversees the cleanup efforts to ensure that activities are performed to our satisfaction. Upon completion of the negotiated work in the voluntary cleanup contract, the non-responsible party receives State Superfund liability protection.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/13/2022
Number of Days to Update: 85

Source: Department of Health and Environmental Control
Telephone: 803-896-4049
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Sites Listing

The Brownfields component of the Voluntary Cleanup Program allows a non-responsible party to acquire a contaminated property with State Superfund liability protection for existing contamination by agreeing to perform an environmental assessment and/or remediation.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/13/2022
Number of Days to Update: 85

Source: Department of Health & Environmental Control
Telephone: 803-896-4069
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 03/13/2020
Date Made Active in Reports: 05/22/2020
Number of Days to Update: 70

Source: Department of Health & Environmental Control
Telephone: 803-896-8985
Last EDR Contact: 08/30/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

ALLSITES: Site Assessment & Remediation Public Record Database

The South Carolina Department of Health and Environmental Control is pleased to have the Public Record for your review. The purpose of this database is two-fold. First, it will provide to communities another form of notice of cleanup activity, allowing them to have more information about assessment and cleanup activities in their area and in the State. Second, it can assist those seeking to redevelop brownfield properties within South Carolina.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/08/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 79

Source: Department of Health & Environmental Control
Telephone: 803-896-4000
Last EDR Contact: 06/08/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

CDL 2: Clandestine Drug Lab Listing

A listing of clandestine drug lab site locations.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/01/2022
Number of Days to Update: 85

Source: South Carolina Law Enforcement Division
Telephone: 803-896-7136
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

CDL: Clandestine Drug Lab Sites

A listing of clandestine drug lab site locations.

Date of Government Version: 01/24/2012
Date Data Arrived at EDR: 01/26/2012
Date Made Active in Reports: 02/24/2012
Number of Days to Update: 29

Source: Department of Health & Environmental Control
Telephone: 803-896-4288
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

SPILLS: Spill List

Spills and releases of petroleum and hazardous chemicals reported to the Oil & Chemical Emergency Response division.

Date of Government Version: 05/26/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 05/27/2022
Number of Days to Update: 1

Source: Department of Health and Environmental Control
Telephone: 803-898-4111
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/25/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/26/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/11/2022	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 05/17/2022	Telephone: 202-528-4285
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021	Source: USGS
Date Data Arrived at EDR: 07/13/2021	Telephone: 888-275-8747
Date Made Active in Reports: 03/09/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 239	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/08/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 08/03/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 202-566-1917
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 06/21/2022
Number of Days to Update: 71	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/29/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 08/04/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 06/14/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/26/2022
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 08/11/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022	Source: EPA
Date Data Arrived at EDR: 07/18/2022	Telephone: 202-564-4203
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 07/18/2022
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 703-416-0223
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/04/2022	Telephone: 202-564-8600
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 07/14/2022
Number of Days to Update: 6	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 202-564-6023
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 07/08/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/28/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/10/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 06/14/2022	Telephone: 301-415-7169
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 07/13/2022
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 08/25/2022
Number of Days to Update: 251	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 08/04/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 11/14/2022
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/23/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 04/14/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/26/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/02/2022	Telephone: 703-603-8787
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/10/2022
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022	Source: DOL, Mine Safety & Health Admi
Date Data Arrived at EDR: 03/22/2022	Telephone: 202-693-9424
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 08/02/2022
Number of Days to Update: 3	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 08/17/2022	Telephone: 303-231-5959
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020	Source: USGS
Date Data Arrived at EDR: 05/27/2020	Telephone: 703-648-7709
Date Made Active in Reports: 08/13/2020	Last EDR Contact: 08/17/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/17/2022
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/14/2022	Source: Department of Interior
Date Data Arrived at EDR: 06/15/2022	Telephone: 202-208-2609
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 08/30/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022	Source: EPA
Date Data Arrived at EDR: 05/18/2022	Telephone: (404) 562-9900
Date Made Active in Reports: 05/31/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020	Source: Department of Defense
Date Data Arrived at EDR: 01/11/2022	Telephone: 703-704-1564
Date Made Active in Reports: 02/14/2022	Last EDR Contact: 07/07/2022
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/02/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/22/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 73

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility Listing

A listing of permitted air facilities.

Date of Government Version: 05/24/2022
Date Data Arrived at EDR: 05/25/2022
Date Made Active in Reports: 08/12/2022
Number of Days to Update: 79

Source: Department of Health & Environmental Control
Telephone: 803-898-4279
Last EDR Contact: 08/22/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

Asbestos abatement & demolition project list

Date of Government Version: 04/13/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 05/17/2022
Number of Days to Update: 8

Source: Department of Health & Environmental Control
Telephone: 803-898-3882
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of sites with coal ash ponds.

Date of Government Version: 03/20/2018
Date Data Arrived at EDR: 03/22/2018
Date Made Active in Reports: 04/25/2018
Number of Days to Update: 34

Source: Department of Health & Environmental Control
Telephone: 803-898-3964
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Database

The Drycleaning Facility Restoration Trust Fund database is used to access, prioritize and cleanup contaminated registered drycleaning sites.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 04/27/2022
Date Made Active in Reports: 07/18/2022
Number of Days to Update: 82

Source: Department of Health & Environmental Control
Telephone: 803-898-3882
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/09/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 03/10/2022	Telephone: 803-896-4067
Date Made Active in Reports: 03/22/2022	Last EDR Contact: 08/30/2022
Number of Days to Update: 12	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

Hazardous waste financial assurance information.

Date of Government Version: 08/01/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 08/02/2022	Telephone: 803-898-3880
Date Made Active in Reports: 08/25/2022	Last EDR Contact: 07/20/2022
Number of Days to Update: 23	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

UST financial assurance information.

Date of Government Version: 01/07/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 01/07/2022	Telephone: 803-898-3880
Date Made Active in Reports: 03/23/2022	Last EDR Contact: 06/29/2022
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

GWCI: Groundwater Contamination Inventory

An inventory of all groundwater contamination cases in the state.

Date of Government Version: 07/01/2008	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 11/06/2008	Telephone: 803-898-3798
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 06/15/2022
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/03/2022
	Data Release Frequency: Annually

NPDES: Waste Water Treatment Facilities Listing

A listing of waste water treatment facility locations.

Date of Government Version: 04/21/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 04/21/2022	Telephone: 803-898-4300
Date Made Active in Reports: 07/13/2022	Last EDR Contact: 07/14/2022
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/31/2022
	Data Release Frequency: Varies

UIC: Underground Injection Wells Listing

A listing of underground injection wells locations.

Date of Government Version: 07/27/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 07/27/2022	Telephone: 803-898-3799
Date Made Active in Reports: 08/01/2022	Last EDR Contact: 07/19/2022
Number of Days to Update: 5	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 02/05/2015	Telephone: 202-564-2497
Date Made Active in Reports: 03/06/2015	Last EDR Contact: 06/28/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MANIFEST: Hazardous Waste Manifest Data

A generator who transports, or offers for transportation, hazardous waste for off-site treatment, storage or disposal must prepare a hazardous waste manifest to accompany such shipment.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 05/02/2022
Number of Days to Update: 88

Source: Department of Health & Environmental Control
Telephone: 803-898-3796
Last EDR Contact: 07/27/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environmental Control in South Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Health and Environmental Control
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environmental Control in South Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Health and Environmental Control
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environmental Control in South Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Health and Environmental Control
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/09/2022	Telephone: 860-424-3375
Date Made Active in Reports: 07/28/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 06/28/2022
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/17/2022
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2021	Telephone: 518-402-8651
Date Made Active in Reports: 01/19/2022	Last EDR Contact: 07/29/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/07/2022
	Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2019	Telephone: 717-783-8990
Date Made Active in Reports: 09/10/2019	Last EDR Contact: 07/06/2022
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/24/2022
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020	Source: Department of Environmental Management
Date Data Arrived at EDR: 11/30/2021	Telephone: 401-222-2797
Date Made Active in Reports: 02/18/2022	Last EDR Contact: 08/10/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/19/2019	Telephone: N/A
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 08/29/2022
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Day Care List

Source: Department of Social Services

Telephone: 803-898-7345

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 803-734-9494

STREET AND ADDRESS INFORMATION

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DRAFT

I-95 Extended Study Area

I-95

Bowman, SC 29018

Inquiry Number: 7172876.2s

November 08, 2022

DRAFT

The EDR Radius Map™ Report with GeoCheck®



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Shelton, CT 06484
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

I-95
BOWMAN, SC 29018

COORDINATES

Latitude (North): 33.3013200 - 33° 18' 4.75"
Longitude (West): 80.5558950 - 80° 33' 21.22"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 541345.9
UTM Y (Meters): 3684588.0
Elevation: 102 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 15605246 WADBOO SWAMP, SC
Version Date: 2020

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150503, 20150502
Source: USDA

DRAFT

MAPPED SITES SUMMARY

Target Property Address:
I-95
BOWMAN, SC 29018

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	WHETSELL FARM SITE	1452 DUNCAN CHAPEL R	SHWS, ALLSITES	Higher	2353, 0.446, WSW

DRAFT

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Permitted Landfills List

Lists of state and tribal leaking storage tanks

LUST..... Leaking Underground Storage Tank List
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Comprehensive Underground Storage Tanks
AST..... Aboveground Storage Tank List
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

RCR..... Registry of Conditional Remedies
AUL..... Land Use Controls

Lists of state and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Solid Waste Recycling Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

EXECUTIVE SUMMARY

CDL..... Clandestine Drug Lab Sites
US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Spills Database List
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites
ECHO..... Enforcement & Compliance History Information
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
AIRS..... Permitted Airs Facility Listing

EXECUTIVE SUMMARY

ASBESTOS.....	ASBESTOS
COAL ASH.....	Coal Ash Disposal Sites
DRYCLEANERS.....	Drycleaner Database
Financial Assurance.....	Financial Assurance Information Listing
GWCI.....	Groundwater Contamination Inventory
NPDES.....	Waste Water Treatment Facilities Listing
UIC.....	Underground Injection Wells Listing
MINES MRDS.....	Mineral Resources Data System
MANIFEST.....	Hazardous Waste Manifest Data

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

SHWS: State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

A review of the SHWS list, as provided by EDR, and dated 06/16/2022 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WHETSELL FARM SITE EPA ID: SCR000783795	1452 DUNCAN CHAPEL R	WSW 1/4 - 1/2 (0.446 mi.)	1	8

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

ALLSITES: The South Carolina Department of Health and Environmental Control is pleased to have the Public Record for your review. The purpose of this database is two-fold. First, it will provide to communities another form of notice of cleanup activity, allowing them to have more information about assessment and cleanup activities in their area and in the State. Second, it can assist those seeking to redevelop brownfield properties within South Carolina.

A review of the ALLSITES list, as provided by EDR, and dated 06/06/2022 has revealed that there is 1 ALLSITES site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WHETSELL FARM SITE Project Status Code: ACTIVE	1452 DUNCAN CHAPEL R	WSW 1/4 - 1/2 (0.446 mi.)	1	8

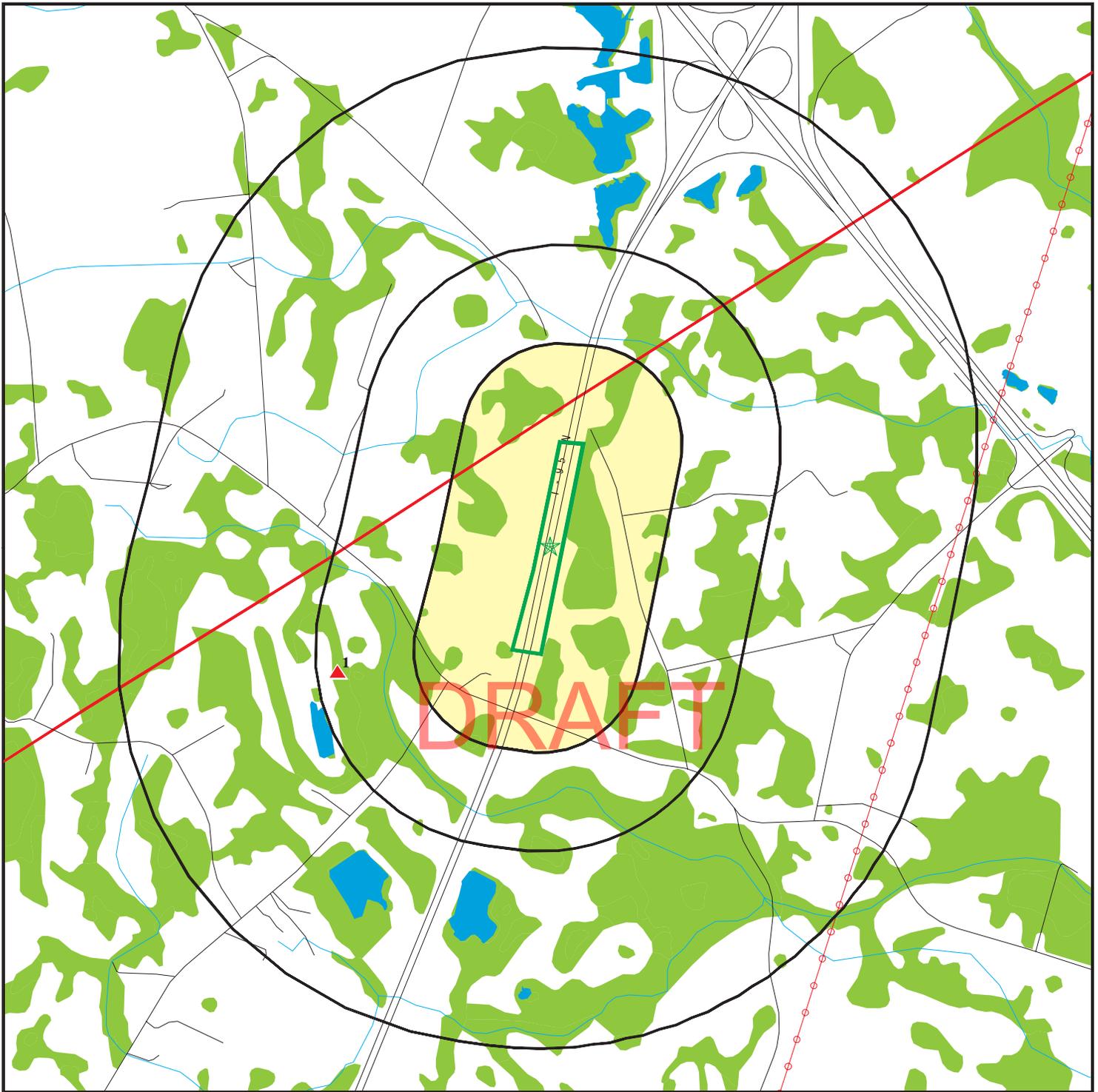
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EXECUTIVE SUMMARY

There were no unmapped sites in this report.

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OVERVIEW MAP - 7172876.2S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites



 Indian Reservations BIA

 County Boundary

 Power transmission lines

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 State Wetlands

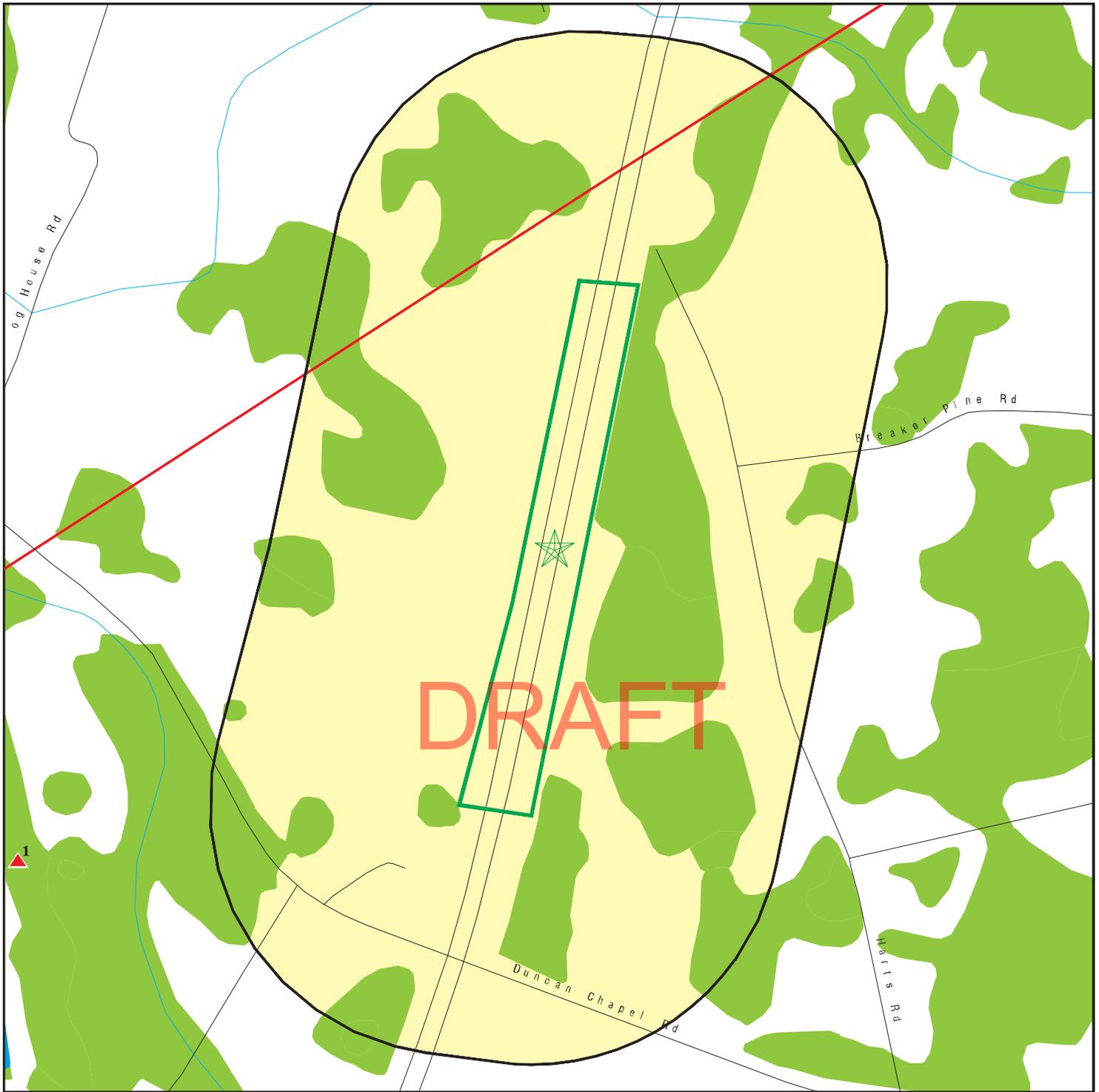


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: I-95 Extended Study Area
 ADDRESS: I-95
 Bowman SC 29018
 LAT/LONG: 33.30132 / 80.555895

CLIENT: ARM Environmental Services
 CONTACT: Richard Ciccolella
 INQUIRY #: 7172876.2s
 DATE: November 08, 2022 3:47 pm

DETAIL MAP - 7172876.2S



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-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  County Boundary
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: I-95 Extended Study Area
 ADDRESS: I-95
 Bowman SC 29018
 LAT/LONG: 33.30132 / 80.555895

CLIENT: ARM Environmental Services
 CONTACT: Richard Ciccolella
 INQUIRY #: 7172876.2s
 DATE: November 08, 2022 3:48 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
SHWS	1.000		0	0	1	0	NR	1
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
LUST	0.500		0	0	0	NR	NR	0

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
RCR	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		0	0	1	NR	NR	1
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
GWCI	0.500		0	0	0	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0

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EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	2	0	0	2

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

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MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s) EDR ID Number
 EPA ID Number

1
WSW
1/4-1/2
0.446 mi.
2353 ft.

WHETSELL FARM SITE
1452 DUNCAN CHAPEL RD
BOWMAN, SC 29018

SHWS **S120052879**
ALLSITES **N/A**

Relative:
Higher
Actual:
107 ft.

SHWS:
 Name: WHETSELL FARM SITE
 Address: 1452 DUNCAN CHAPEL RD
 City,State,Zip: BOWMAN, SC 29018
 EPA ID: SCR000783795

ALLSITES:
 Name: WHETSELL FARM SITE
 Address: 1452 DUNCAN CHAPEL RD
 City,State,Zip: BOWMAN, SC 29018
 Brownfield: Not reported
 Brownfield Type: Not reported
 Funds Used: No
 Resp Action: Yes
 Permit Number: Not reported
 Program: Not reported
 Owner: Please call 803-898-2000 for this information.
 Project Status Code: ACTIVE
 Execute Date: Not reported
 Restrictions Filed Date: Not yet recorded.
 Cleanup Contract Complete Date: Not reported
 Project Complete Date: Not yet completed.
 File Number: 56289
 Land Use Restriction: Not yet determined.
 Contamination On Site: Pesticides/Herbicides
 Acreage: 38
 Soil Contamination Desc: Not reported
 Soil COCS: Not reported
 SW Sed Contamination Desc: Not reported
 SW COCS: Not reported
 GW Contamination Desc: Not reported
 GW COCS: Not reported
 Air Contamination Desc: Not reported
 Air COCS: Not reported
 Lat: 33.30322
 Long: -80.56726

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Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

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EDR ZIP Code Scan Report

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
** - Indicates location may or may not be in requested radius. Site has not been assigned a latitude/longitude coordinate. Further review recommended.								
29018	1021373000		BOWMAN TEXACO FOOD MART		**	BOWMAN	SC	EDR Historical Auto Stations
29018	1020633478		I-26 & 210 STATION & RST INC	I-26 & HWY 210	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1021319209		I-26 & 210 STATION INC	I-26 & HWY 210	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1021374363		DUKES C M OIL CO	RR 1	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1022091814		BOWMAN TEXACO FOOD MART	RT 1 BOX 1690	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1021811066		EXXON	RT 1 BOX 66	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1007228081	110016992487	BOWMAN TEXACO	RTE 1 PO BOX 1690	**	BOWMAN	SC	FINDS
29018	1026604005		HUFF, JAMES	ROUTE 1, BOX 1208	**	BOWMAN	SC	PRP
29018	1021562138		D & R 76 SELF SERVICE	HWY 178	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1007234098	110017054701	BOWMAN MEDICAL CENTER	HWY 178	**	BOWMAN	SC	FINDS
29018	1021440374		DUKES C M OIL CO	RT 1BOX 66	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1016278608	110009310851	WHETSELL FARM SITE	ROUTE 2	**	BOWMAN	SC	FINDS
29018	1001230530	SC0002408391	WHETSELL FARM SITE	ROUTE 2	**	BOWMAN	SC	CERCLIS
29018	1005791301	110002186562	ROBERT MOORER JR BROILER FARM	RT 2 BOX 3800	**	BOWMAN	SC	FINDS
29018	1004595268	110011928290	RAINBOW CHRISTIAN SCHOOL	RT 2 BOX 90A	**	BOWMAN	SC	FINDS
29018	1000380031	SCD991298571	KAISER AGRICULTURAL CHEMI	HIGHWAY 210 SC	**	BOWMAN	SC	RCRA-NonGen
29018	1016240699	110007837984	KAISER AGRICULTURAL CHEMI	HIGHWAY 210 SC	**	BOWMAN	SC	FINDS
29018	1008010813	110008570395	BRAKEFIELD S EXXON	HWY 210 & I 26	**	BOWMAN	SC	FINDS
29018	U001119619	6803	FORMER BOWMAN SECTION SHED	SC 210 W CEDAR ST	**	BOWMAN	SC	GWCI, RCR, LUST, UST
29018	1007238985	110017105434	FORMER BOWMAN SECTION SHED	SC 210 W CEDAR ST	**	BOWMAN	SC	FINDS
29018	U003519504	6971	BOWMAN EXXON	I 26 & RD 36	**	BOWMAN	SC	GWCI
29018	1007231129	110017024021	BOWMAN EXXON	I 26 & RD 36	**	BOWMAN	SC	FINDS
29018	1007239132	110017106932	WILKERSON FUEL CO	I 26 & SC 210	**	BOWMAN	SC	FINDS
29018	1007232888	110017042083	EXPRESSWAY EXXON	I 26 & SC 210	**	BOWMAN	SC	FINDS
29018	1022185380		SMITH M J ESSO	HWY 36	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1026786773	110070914324	QUIKRETE CHS	160 ARISTA RD	**	BOWMAN	SC	FINDS
29018	1018315910		PAVESTONE	160 ARISTA RD	**	BOWMAN	SC	FINDS
29018	S127306977		TREMRON	160 ARISTA RD	**	BOWMAN	SC	AIRS
29018	1016344516	110038284816	SIMS BARK CO OF GEORGIA LLC	172 ARISTA RD	**	BOWMAN	SC	FINDS
29018	1012006895		SIMS BARK CO OF GEORGIA LLC	172 ARISTA RD	**	BOWMAN	SC	SSTS
29018	1007236619	110017080816	MATTHEWS MOBILE HOME PRK	491 BAXLEY RD	**	BOWMAN	SC	FINDS
29018	1026096479	110070665712	PALMETTO PLAINS	1440 BOWMAN BRANCH HWY	**	BOWMAN	SC	FINDS
29018	1004594541	110011864642	DBK METHOD	P.O. BOX 466	**	BOWMAN	SC	FINDS
29018	1007258033	110017310248	SAMUEL T MCGILL DMD	PO BOX 278	**	BOWMAN	SC	FINDS
29018	1004592948	110009793526	BOWMAN TOWN OF	PO BOX 37	**	BOWMAN	SC	FINDS
29018	1026096618	110070665867	TWE BOWMAN SOLAR PROJECT	534 BRIE STREET	**	BOWMAN	SC	FINDS
29018	1007234667	110017060491	GAINES MINI-STOP	187 CEDAR ST	**	BOWMAN	SC	FINDS
29018	U003521633	15801	GAINES MINI STOP	187 CEDAR ST	**	BOWMAN	SC	UST
29018	1018668531		BOWMAN CLEANERS	191 CEDAR ST	**	BOWMAN	SC	EDR Historical Cleaners
29018	S128542607		GILYARD	5167 CHARLESTON HWY	**	BOWMAN	SC	FINDS
29018	1007239134	110017106950	B&B CORNER MART	6204 CHARLESTON HWY	**	BOWMAN	SC	FINDS
29018	U003887458	6916	B&B CORNER MART	6204 CHARLESTON HWY	**	BOWMAN	SC	GWCI, RCR, LUST, UST
29018	1007231853	110017031433	QUICK PANTRY 3	6619 CHARLESTON HWY	**	BOWMAN	SC	FINDS
29018	U004018108	17290	QUICK PANTRY 3	6619 CHARLESTON HWY	**	BOWMAN	SC	GWCI
29018	U004254791		QUICK PANTRY 3	6619 CHARLESTON HWY	**	BOWMAN	SC	LUST, UST
29018	U004254758		FORMER STATION BOWMAN	6619 CHARLESTON HWY	**	BOWMAN	SC	LUST, UST
29018	S127646016		HOUSE	6711 CHARLESTON HWY	**	BOWMAN	SC	FINDS
29018	S119113893		VACANT BLDG	7206 CHARLESTON HWY	**	BOWMAN	SC	FINDS
29018	S119113837		VACANT BLDG	7206 CHARLESTON HWY	**	BOWMAN	SC	FINDS
29018	S119113924		VACANT HOUSE	7210 CHARLESTON HWY	**	BOWMAN	SC	FINDS
29018	1025429679		MEHERRIN AG & CHEMICAL CO - BOWMA	7904 CHARLESTON HIGHWAY	**	BOWMAN	SC	SSTS
29018	1023389848	110067069585	MEHERRIN AG & CHEMICAL CO - BOWMA	7904 CHARLESTON HIGHWAY	**	BOWMAN	SC	FINDS
29018	1005427750		DBK METHOD	CORNER OF PINE & OLIVER ST	**	BOWMAN	SC	SSTS
29018	1004593279	110011864633	DVK METHOD INC	CORNER OF PINE & OLIVER ST.	**	BOWMAN	SC	FINDS
29018	1007829779	110019937675	BARRY I & JULIUS C BERRY	1110 COUNTRY CLUB RD	**	BOWMAN	SC	FINDS
29018	1003869342	SCD987566908	HUFF BATTERY SALVAGE	COUNTY RD 170 AT INTERSTATE HWY 26	**	BOWMAN	SC	CERCLIS
29018	1016304769	110013797757	HUFF BATTERY SALVAGE	COUNTY RD 170 AT INTERSTATE HWY 26	**	BOWMAN	SC	FINDS
29018	1022995754	110070122779	WHETSELL FARM SITE - DHEC CLEANUP	1452 DUNCAN CHAPEL RD	**	BOWMAN	SC	FINDS
29018	S120052879		WHETSELL FARM SITE	1452 DUNCAN CHAPEL RD	**	BOWMAN	SC	ALLSITES, SHWS
29018	1023679958	SCR000783795	WHETSELL FARM SITE - DHEC CLEANUP	1452 DUNCAN CHAPEL RD	**	BOWMAN	SC	RCRAInfo-LQG

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ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
29018	1007834200	110019981885	RISER FARMS INC	2107 DUNCAN CHAPEL RD		BOWMAN	SC	FINDS
29018	1022190322		COUNTRY STORE	918 DUNCAN CHAPEL RD		BOWMAN	SC	EDR Historical Auto Stations
29018	1020568249		COUNTRY STORE THE	DUNCAN CHAPEL RD	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1007834701	110019986915	WHETSELL BROS FARMS	2100 EBENEZER RD		BOWMAN	SC	FINDS
29018	1007834259	110019982492	WENDY & JOHN WIMBERLY	2250 EBENEZER RD		BOWMAN	SC	FINDS
29018	1021050446		WHETSELL & LEE	EBENEZER RD	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1020574521		TRAVEL MART INC	36 EXIT 159 I26RD	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1026697760	110070871327	HUNTLEY	631 HOLSTEIN RD		BOWMAN	SC	FINDS
29018	U004016957	10290	PILOT TRAVEL CENTER 060	2064 HOMESTEAD RD		BOWMAN	SC	GWCI, RCR, LUST, UST
29018	1011491099	SCR000769976	PILOT TRAVEL CENTERS LLC	2064 HOMESTEAD RD		BOWMAN	SC	RCRA-NonGen
29018	1021030549		PILOT TRAVEL CENTERS LLC	2064 HOMESTEAD RD		BOWMAN	SC	EDR Historical Auto Stations
29018	1007232811	110017041271	PILOT TRAVEL CENTER 060	2064 HOMESTEAD RD		BOWMAN	SC	FINDS
29018	S127660876		MCDONALDS - PARTIAL DEMOLITION	2064 HOMESTEAD RD		BOWMAN	SC	
29018	U003878955	18891	SCOTCHMAN	2267 HOMESTEAD RD		BOWMAN	SC	UST
29018	1007235950	110017073897	LIL CRICKET 350	2267 HOMESTEAD RD		BOWMAN	SC	FINDS
29018	1007236435	110017078954	LION S DEN	2269 HOMESTEAD RD		BOWMAN	SC	FINDS
29018	1007837588	110020015794	L D MANAGEMENT INC	2269 HOMESTEAD RD		BOWMAN	SC	FINDS
29018	98435798			HOMESTEAD HWY IN WOODED	**	BOWMAN	SC	ERNS
29018	S128052513		PALMETTO CORPORATION OF CONWAY	HOMESTEAD RD	**	BOWMAN	SC	AIRS
29018	1027264596		PALMETTO CORP/HOMESTEAD PIT	HOMESTEAD ROAD	**	BOWMAN	SC	
29018	1027306981	110071299820	PALMETTO CORP/HOMESTEAD PIT	HOMESTEAD ROAD	**	BOWMAN	SC	FINDS
29018	S127659705		GARAGE BUILDING	216 HOPE LN		BOWMAN	SC	
29018	1021844623		TRAVEL MART INC	I-26	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1007834322	110019983115	EDDIE & MELISSA JUDY	824 KIZER RD		BOWMAN	SC	FINDS
29018	1007834654	110019986443	MYERS BROTHERS DAIRY	2721 LANDSDOWNE RD		BOWMAN	SC	FINDS
29018	1008010806	110008570260	PILOT TRAVEL CENTERS LLC	LORI WRIGHT	**	BOWMAN	SC	FINDS
29018	1019971617		DENNIS A MC IVA MAC	MAIN ST	**	BOWMAN	SC	EDR Historical Cleaners
29018	1018827268		BOWMAN CLEANERS	MAIN ST	**	BOWMAN	SC	EDR Historical Cleaners
29018	1007244513	110017163282	CONTINENTAL TELEPHONE CO	MAIN ST	**	BOWMAN	SC	FINDS
29018	1021162781		DANTZLER WILLIAM DUPREE	MAIN ST	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1020633454		DANTZLER WILLIAM DUPREE	MAIN ST	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1021457036		WEATHERS J R SHELL SERVICE STN	S MAIN ST	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1007242392	110017141109	ANDYS SERVICE STATION	S MAIN ST	**	BOWMAN	SC	FINDS
29018	U000482862	11514	ANDYS SERVICE STATION	S MAIN ST	**	BOWMAN	SC	LUST, UST
29018	1018295825		BOWMAN TOWN OF	OFF KIZER RD		BOWMAN	SC	ICIS
29018	S109515761		BOWMAN TOWN OF	OFF KIZER RD	**	BOWMAN	SC	NPDES
29018	S119111370		MEHERRIN AGRI & CHEMICAL - METAL BL	521 RAIL ST		BOWMAN	SC	
29018	S119111379		MEHERRIN AGRI & CHEMICAL	521 RAIL ST		BOWMAN	SC	
29018	S119121748		BOWMAN POST OFFICE	RAILROAD AV @ MAIN ST	**	BOWMAN	SC	
29018	1021242772		TRAVEL MART INC	I-26 RD 36 EXIT 159	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1007246385	110017182608	BOWMAN TOWN OF (SC3810004)-PLANT (100 REEVESVILLE RD		BOWMAN	SC	FINDS
29018	1020394729		TRAVEL MART INC	I-26 ROAD 36 EXIT 159	**	BOWMAN	SC	EDR Historical Auto Stations
29018	1007231904	110017031950	BOWMAN SUPERMARKET	211 SMITH ST		BOWMAN	SC	FINDS
29018	U003631831	16413	BOWMAN SUPERMARKET	211 SMITH ST		BOWMAN	SC	GWCI, RCR, LUST, UST
29018	1014834931	110040713270	BOWMAN SUPERMARKET	227 SMITH ST		BOWMAN	SC	FINDS
29018	1020259293		UNITED BUSINESS ASSOCIATES	SMITH & MAGNOLIA STREETS		BOWMAN	SC	EDR Historical Auto Stations
29018	1014835030	110041271995	PETER R STOKES IV MINE	640 STOKES CT		BOWMAN	SC	FINDS
29018	1007231091	110017023638	BOWMAN MAINTENANCE SHOP	168 TORONTO LN		BOWMAN	SC	FINDS
29018	U003519505	6788	BOWMAN MAINTENANCE SHOP	168 TORONTO LN		BOWMAN	SC	GWCI, RCR, LUST, UST
29018	1021586132		BILLY AUTOMOTIVE SERVICE	1017 TWO CHURCH RD		BOWMAN	SC	EDR Historical Auto Stations
29018	1007236130	110017075822	A L FELDER TRUCKING INC	152 URBAN DR		BOWMAN	SC	FINDS
29018	U003631606	11308	EXXON 3	5323 VANCE RD		BOWMAN	SC	LUST, UST
29018	1020716300		BRAKEFIELD ENTERPRISES INC	5323 VANCE RD		BOWMAN	SC	EDR Historical Auto Stations
29018	1022234634		SMITH JB & PA	5448 VANCE RD		BOWMAN	SC	EDR Historical Auto Stations
29018	U004291717		FLYING J	5448 VANCE RD		BOWMAN	SC	LUST, UST
29018	U003929917	10321	FLYING J	5448 VANCE RD		BOWMAN	SC	GWCI, BROWNFIELDS, VCP,

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29018	1021580414		BOWMAN TEXACO FOOD MART	5458 VANCE RD		BOWMAN	SC	ALLSITES, RCR, SHWS EDR Historical Auto Stations
29018	1007226150	110016972837	MACS QUICK C LLC	5463 VANCE RD		BOWMAN	SC	FINDS
29018	U003631485	10326	EXIT 165	5463 VANCE RD		BOWMAN	SC	LUST, UST
29018	1007233755	110017051125	SMITH TRUCKING INC	5605 VANCE RD		BOWMAN	SC	FINDS
29018	1006081742		V P KISER LUMBER CO INC	6903 VANCE RD		BOWMAN	SC	UST
29018	S108282521		V P KISER LUMBER CO INC	6903 VANCE RD		BOWMAN	SC	AIRS
29018	1004595297	110001669230	V P KISER LUMBER CO INC	6903 VANCE RD		BOWMAN	SC	FINDS
29448	1021382563		WAY RONALD J		**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	2008866748				**	HARLEYVILLE	SC	ERNS
29448	1025748889		HARLEYVILLE QUARRY & CEMENT PLANT			HARLEYVILLE	SC	
29448	1022877159		HARLEYVILLE QUARRY		**	HARLEYVILLE	SC	
29448	2010110576				**	HARLEYVILLE	SC	HMIRS
29448	1025574031		GIANT CLAY PIT			HARLEYVILLE	SC	
29448	1025703969		HARLEYVILLE QUARRY & CEMENT PLANT			HARLEYVILLE	SC	
29448	1025593303		GIFFORD HILL MARL PIT(HARLEYVILLE Q			HARLEYVILLE	SC	
29448	S127620783		GIANT CONCRETE -CANCELLED-		**	HARLEYVILLE	SC	
29448	1025568610		HARLEYVILLE QUARRY			HARLEYVILLE	SC	
29448	1025572717		GIANT PORTLAND MARL PIT(HARLEYVILL			HARLEYVILLE	SC	
29448	1020803809		WAY ENTERPRISES INC	I-26 & HWY 453	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1022090758		JAMES GROCERY & SERVICE STAT	RR 1	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1020402079		JAMES GROCERY & SERVICE STAT	RT 1	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1008010203	110008545556	BB SMITH #1 MHP	RT 1 BOX 70	**	GEORGETOWN	SC	FINDS
29448	1021284971		B & B TRUCK STOP	RT 1 HWY 16 & I 26	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1021909886		E Z SHOP HORIZON	2722 HIGHWAY 15 N		HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1007227154	110016983040	DIXIE BOY 10	2722 HWY 15 N		HARLEYVILLE	SC	FINDS
29448	U003631170	3018	E Z SHOP 27	2722 HWY 15 N		HARLEYVILLE	SC	GWCI, RCR, LUST, UST
29448	1021402806		B & B TRUCK STOP	2877 HIGHWAY 15 N		HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1020287836		JOHNNYS SERVICE STATION	HIGHWAY 178 W	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1020548545		OWENS JOHN A	HWY 178	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1021923834		JOHNNYS SERVICE STATION	HWY 178	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1015736405	SCD062704861	GIFFORD-HILL/HARLEYVILLE PLANT	IH 26 & HWY 453		HARLEYVILLE	SC	CERCLIS-NFRAP, RCRA-CESQG
29448	1000179713	SCD981021926	DELCON (SC) INC	RT 443 N		HARLEYVILLE	SC	RCRA-NonGen
29448	94255883			HIGHWAY 453 N AND I-26	**	HARLEYVILLE	SC	ERNS
29448	2004725811			HIGHWAY 453 N AND I-26	**	HARLEYVILLE	SC	ERNS
29448	94258812			HIGHWAY 453 N AND I-26	**	HARLEYVILLE	SC	ERNS
29448	95276827			HIGHWAY 453 N AND I-26	**	HARLEYVILLE	SC	ERNS
29448	2003706351			HIGHWAY 453 N AND I-26	**	HARLEYVILLE	SC	ERNS
29448	1016240394	110007832480	DELCON (SC) INCORPORATED	HIGHWAY 453 NORTH	**	HARLEYVILLE	SC	FINDS
29448	U003525603	2966	STAR REDI MIX INC	HWY 453	**	HARLEYVILLE	SC	LUST, UST
29448	96359945			HWY 453	**	HARLEYVILLE	SC	ERNS
29448	1007236025	110017074734	POWERSCREEN OF GEORGIA INC	HWY 453	**	HARLEYVILLE	SC	FINDS
29448	1021089983		SOUTHERN CHEMICAL HAULERS INC	HWY 453	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	93157697			HWY 453	**	HARLEYVILLE	SC	ERNS
29448	1007230007	110017012338	STAR REDI MIX INC	HWY 453	**	HARLEYVILLE	SC	FINDS
29448	S127670824		GIANT CONCRETE	HWY 453	**	HARLEYVILLE	SC	
29448	1000321393	110070751068	GIANT CEMENT CO	HWY 453 & I-26 (654 JUDGE ST)		HARLEYVILLE	SC	CORRACTS, PADS, ICIS, FINDS, RCRAInfo-LQG, TRIS, RCRAInfo-TSDF, RAATS
29448	97374867			HWY 453 AT I-26	**	HARLEYVILLE	SC	ERNS
29448	98466603			HWY 453 AT I-26	**	HARLEYVILLE	SC	ERNS
29448	1016982722	110007400213	GIANT RESOURCE RECOVERY CO	HWY 453 N @ I 26		HARLEYVILLE	SC	FINDS
29448	1008008921	110002175798	RONNIE S BP STATION	SC 453	**	HARLEYVILLE	SC	FINDS
29448	S118175944		CONCRETE SUPPLY CO LLC - HARLEYVIL	522 7-MILE RD	**	HARLEYVILLE	SC	AIRS
29448	1004593616	110007184411	E&C WILLIAMS	BOWMAN RD		HARLEYVILLE	SC	FINDS
29448	1020924917		WAY RONALD J	PO BOX 116	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	2007829837			PO BOX 218	**	HARLEYVILLE	SC	ERNS

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29448	1012094620	110038794659	GIANT RESOURCE-CLOSED	PO BOX 218		HARLEYVILLE	SC	FINDS
29448	1016307998	110017067948	GIFFORD HILL & CO INC	PO BOX 326	**	HARLEYVILLE	SC	FINDS
29448	1007834114	110019981037	BLUE CIRCLE CEMENT	PO BOX 326	**	HARLEYVILLE	SC	FINDS
29448	98422734			PO BOX 326	**	HARLEYVILLE	SC	ERNS
29448	1007226038	110016971589	CONTINENTAL CONSTRUCTION	PO BOX 366	**	HARLEYVILLE	SC	FINDS
29448	1007243374	110017151428	SYSTECH ENVIRONMENTAL CORPORATI	PO BOX 66	**	HARLEYVILLE	SC	FINDS
29448	1024922267		EGERIA DIRT PIT	146 BROWN TOWN RD.		HARLEYVILLE	SC	
29448	A100205615	1896	RISCHER MINING & TRUCKING	146 BROWNTOWN RD		HARLEYVILLE	SC	AST
29448	1004781306	SCR000762146	RISHER MINING & TRUCKING INC	146 BROWNTOWN RD		HARLEYVILLE	SC	RCRA-CESQG
29448	1008010516	110008555170	ACKERMAN MHP	CALES LN	**	WALTERBORO	SC	FINDS
29448	S119121817		CANTLEY RESIDENCE	275 CANTLEY RD		HARLEYVILLE	SC	
29448	1004779791	110002196329	FLEET WORLD INCORPORATED	9324 CHARLESTON HWY		HARLEYVILLE	SC	RCRA-CESQG, FINDS
29448	1012094852	110038792508	SOUTHERN COLOR N.A. INC.	100 COMMERCE AVE		HARLEYVILLE	SC	FINDS
29448	1005436847		SKEETER GO INC	DEER RUN	**	HARLEYVILLE	SC	SSTS
29448	1006288988	110011843407	SKEETER COMPANY	DEER RUN/PO BOX 354	**	HARLEYVILLE	SC	FINDS
29448	1005792453	110002310892	RONNIE S WHEEL CRUSHING SERVICE	237 DOGWOOD TRAIL		DORCHESTER	SC	FINDS
29448	1020962715		EDS PIT SHOP	EXIT 82 OF I-95 & HWY 178	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	S127623151		FERNWOOD BAPTIST CHURCH	200 FERNWOOD DR	**	HARLEYVILLE	SC	
29448	S127646503		FERNWOOD BAPTIST CHURCH F BUILDIN	200 FERNWOOD DR		SPARTANBURG	SC	
29448	1024719735		EADIE'S DIVA D ENTERPRISES CROWN C	GABLE FARM RD	**	HARLEYVILLE	SC	
29448	1025444957	110033017651	EADIE'S DIVA D ENTERPRISES CROWN C	GABLE FARM RD	**	HARLEYVILLE	SC	FINDS
29448	1025485430		CGT-DORCHESTER COMPRESSOR STATI	534 GAVINS RD		HARLEYVILLE	SC	
29448	1025983409	110070595553	CGT-DORCHESTER COMPRESSOR STATI	534 GAVINS RD		HARLEYVILLE	SC	FINDS
29448	1025888259	SCR000786368	CGT-DORCHESTER COMPRESSOR STATI	534 GAVINS RD	**	HARLEYVILLE	SC	RCRA-CESQG
29448	1005613856	110056423348	DORCHESTER EXCAVATING	GIANT CEMENT	**	HARLEYVILLE	SC	FINDS
29448	1005790289	110002236189	DORCHESTER DIRT PIT	GIANT CEMENT PLANT SITE		HARLEYVILLE	SC	FINDS
29448	1018288885		HARLEYVILLE, TOWN OF	HARLEYVILLE-PO BOX 35		HARLEYVILLE	SC	ICIS
29448	S127621478		JENKINS HILLS ELEMENTARY	145 HILL ST		HARLEYVILLE	SC	
29448	S127646548		JENKINS HILLS ELEMENTARY	145 HILL ST		HARLEYVILLE	SC	
29448	S127646505		JENKINS HILL ELEMENTARY	145 HILL ST		HARLEYVILLE	SC	
29448	1007234711	110017060936	JENKINS HILL ELEM SCHOOL	HILL ST		HARLEYVILLE	SC	FINDS
29448	S119008610		DORCHESTER EXCAVATING INC	HOLCIM CEMENT SITE	**	HOLLY HILL	SC	AIRS
29448	S127639587		HARLEYVILLE EXCHANGE - 131 SOUTH R	HOME TELEPHONE CO	**	HARLEYVILLE	SC	
29448	S127621646		JENKINS ELEMENTARY	145 HULL ST		HARLEYVILLE	SC	
29448	S127560049			2154 US HWY 15 N		HARLEYVILLE	SC	CDL
29448	1016184945	110002196392	CSX TRANSPORTATION	SC HWY 453 500 WATER ST	**	HARLEYVILLE	SC	FINDS
29448	1004779665	SC0000001357	CSX TRANSPORTATION	SC HWY 453 500 WATER ST	**	HARLEYVILLE	SC	RCRA-NonGen
29448	1004780806	SCD991278482	SCA SERVICES CHARLESTON LANDFILL	US HWY 78	**	ROSINVILLE	SC	RCRA-NonGen
29448	1016274708	110008567522	SCA SERVICES CHARLESTON LANDFILL	US HWY 78	**	ROSINVILLE	SC	FINDS
29448	1020490281		WAY ENTERPRISES INC	I26-HWY 453	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	U004067062	19251	HARLEYVILLE TRUCK STOP INC	137 JUDGE ST		HARLEYVILLE	SC	UST
29448	1020543368		HARLEYVILLE TRUCK STOP	137 JUDGE ST		HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1000992037	110002252348	SOUTHERN TANK TRANSPORT INCORPO	198 JUDGE ST		HARLEYVILLE	SC	RCRA-NonGen, FINDS
29448	S118175943		ARGOS CEMENT LLC HARLEYVILLE CEME	463 JUDGE ST		HARLEYVILLE	SC	AIRS
29448	U004017113	11221	ARGOS CEMENT LLC HARLEYVILLE CEME	463 JUDGE ST		HARLEYVILLE	SC	NPDES, LUST, UST
29448	1000230110	110001666064	ARGOS CEMENT HARLEYVILLE PLANT	463 JUDGE ST		HARLEYVILLE	SC	ICIS, SHWS, FINDS, TRIS
29448	1024922232		HARLEYVILLE MINE & PLANT	463 JUDGE ST		HARLEYVILLE	SC	
29448	S127659100		ARGOS CEMENT - HARLEYVILLE	463 JUDGE ST		HARLEYVILLE	SC	
29448	S127666138		LAFARGE NORTH AMERICA SHIPPING OF	463 JUDGE ST		HARLEYVILLE	SC	
29448	S120980369		ARGOS HARLEYVILLE CEMENT PLANT	463 JUDGE ST		HARLEYVILLE	SC	
29448	2001552546			463 JUDGE STREET		HARLEYVILLE	SC	ERNS
29448	1014199711		LAFARGE BUILDING MATERIALS - HARLE'	463 JUDGE STREET		HARLEYVILLE	SC	TSCA
29448	2001580722			463 JUDGE STREET		HARLEYVILLE	SC	ERNS
29448	1016948213		ARGOS HARLEYVILLE	463 JUDGE STREET		HARLEYVILLE	SC	TSCA
29448	A100267793	1832	BLUE CIRCLE CEMENT - LAFARGE	463 JUDGE STREET		HARLEYVILLE	SC	AST
29448	1020173800		WAYS ENTERPRISES INC	495 JUDGE ST		HARLEYVILLE	SC	EDR Historical Auto Stations
29448	A100267532	984	RONNIES STATION	495 JUDGE STREET		HARLEYVILLE	SC	AST
29448	S127651035		GIANT CEMENT COMPANY BURNER BUILI	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127643330		GIANT CEMENT CO GRR LAB TRAILER 1	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127647400		GIANT CEMENT COMPANY - COMPRESSC	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127670641		GIANT CEMENT - STORAGE WAREHOUSE	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127650585		GIANT CEMENT COMPANY OUTDOOR PIF	654 JUDGE ST		HARLEYVILLE	SC	
29448	1007114455		GIANT CEMENT COMPANY	654 JUDGE ST		HARLEYVILLE	SC	FTTS
29448	S127641815		PARKING SHED 13 - GIANT CEMENT CO	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642305		GIANT CEMENT COMPANY - CARPENTRY	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127641814		PARKING SHED #14 - GIANT CEMENT CO	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127649762		OLD FINISH MILL MILLER'S SHACK	654 JUDGE ST		HARLEYVILLE	SC	

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29448	S127651647		GIANT CEMENT COMPANY - #4 & 5 FINISH	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127663524		GIANT CEMENT - CLINKER BLDG	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642568		GIANT CEMENT COMPANY RESEARCH LA	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127651036		GIANT CEMENT COMPANY BREAK ROOM	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127650834		GIANT CEMENT COMPANY #2 KLIN FEED	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127647152		GIANT CEMENT GRR LAB LOCKER ROOM	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127650173		GIANT CEMENT COMPANY OLD FINISH MI	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642058		GIANT CEMENT - CARPENTER SHOP	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127631767		GIANT CONCRETE - -PROJECT CANCELLE	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642302		GIANT CEMENT COMPANY - STORAGE (1'	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127645412		GIANT CEMENT CO PARKING GARAGE BL	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127646992		GIANT CEMENT CO- OLD RAW MILL BUIL	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642056		GIANT CEMENT - PLANT OFFICE	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642301		GIANT CEMENT COMPANY - STORAGE (1'	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127638837		OLD FINISH MILL BLDG- GIANT CEMENT	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127631643		GIANT CEMENT - LAB 1	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127650174		GIANT CEMENT COMPANY MARL DRYER	654 JUDGE ST		HARLEYVILLE	SC	
29448	U003970172	2962	GIANT CEMENT PLANT	654 JUDGE ST		HARLEYVILLE	SC	SPILLS
29448	S127650175		GIANT CEMENT COMPANY MCC BLDG	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127643331		GIANT CEMENT CO GRR LAB TRAILER 2	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127670640		GIANT CEMENT - RESEARCH LAB	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127651034		GIANT CEMENT COMPANY HAZARDOUS T	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642057		GIANT CEMENT - BRICK STORAGE	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127631837		GIANT CONCRETE	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127645409		GIANT CEMENT CO PARKING GARAGE BL	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127621536		GIANT CEMENT--PROJECT CANCELLED--	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127641816		PARKING SHED #12 GIANT CEMENT CO	654 JUDGE ST		HARLEYVILLE	SC	
29448	2003634958			654 JUDGE ST		HARLEYVILLE	SC	ERNS
29448	S127650176		GIANT CEMENT COMPANY OLD RAW MILL	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127670692		GIANT CONCRETE - ---PROJECT CANCEL	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127645408		GIANT CEMENT CO PARKING GARAGE BL	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642304		GIANT CEMENT COMPANY - GARAGE (8)	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642570		GIANT CEMENT COMPANY GATE HOUSE	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127641528		GIANT CEMENT COMPANY - GRR OFFICE	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127647022		GIANT CEMENT CO- LUBE SHOP	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127651033		GIANT CEMENT COMPANY LUBE SHOP	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127650832		GIANT CEMENT COMPANY MCC BUILDING	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127645411		GIANT CEMENT CO PARKING GARAGE BL	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127641813		OPEN STORAGE SHED (5)	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127650835		GIANT CEMENT COMPANY BUILDING 114	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642569		GIANT CEMENT COMPANY PLANT OFFICE	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127642303		GIANT CEMENT COMPANY - BRICK STOR.	654 JUDGE ST		HARLEYVILLE	SC	
29448	S108282158		GIANT CLINKER SHED	654 JUDGE ST		HARLEYVILLE	SC	AIRS, NPDES, SPILLS
29448	S127647705		GIANT CEMENT COMPANY - WASH MILL F	654 JUDGE ST		HARLEYVILLE	SC	
29448	S127628950		#2 FINISH MILL & MOTOR STORAGE BLDG	654 JUDGE ST AND HWY 453		HARLEYVILLE	SC	
29448	2003703610			654 JUDGE STREET		HARLEYVILLE	SC	ERNS
29448	1011825910		GIANT CEMENT COMPANY	654 JUDGE STREET		HARLEYVILLE	SC	RMP
29448	1014199159		GIANT CEMENT CO	654 JUDGE STREET		HARLEYVILLE	SC	TSCA
29448	1014628764		RAW MILL & KILN #5 DRIVE PIER	654 JUDGE STREET		HARLEYVILLE	SC	PCB TRANSFORMER
29448	99469556			654 JUDGE STREET		HARLEYVILLE	SC	ERNS
29448	A100267563	1034	GIANT CEMENT CO (GRR)	654 JUDGE STREET		HARLEYVILLE	SC	AST
29448	98422854			654 JUDGE STREET		HARLEYVILLE	SC	ERNS
29448	2005761452			654 JUDGE STREET		HARLEYVILLE	SC	ERNS
29448	2015113567			654 JUDGE STREET		HARLEYVILLE	SC	ERNS
29448	1016126319	110017087301	SAND SCIENCE INC - PORTABLE CRUSHE	LEFARGE CEMENT COMPANY	**	HARLEYVILLE	SC	FINDS
29448	1007246117	110017179890	UTSEY ONE STOP	106 E MAIN ST		HARLEYVILLE	SC	FINDS
29448	U003522119	11573	HARLEYVILLE ONE STOP	106 E MAIN ST		HARLEYVILLE	SC	GWCI, RCR, LUST, UST
29448	U003631787	14734	CARTERS FAST STOP 4	108 E MAIN ST(HWY 178)		HARLEYVILLE	SC	GWCI, RCR, LUST, UST
29448	1007248175	110017201062	CARTERS FAST STOP 4	108 EAST MAIN ST(HWY 178)		HARLEYVILLE	SC	FINDS
29448	S127650848		RESIDENCE	121 W MAIN ST		HARLEYVILLE	SC	
29448	S123792386		FIRST NATIONAL BANK HARLEYVILLE BR	143 W MAIN ST		HARLEYVILLE	SC	
29448	1021676009		HOT SPOT	153 W MAIN ST		HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1021553779		UTSEY LAWRENCE A	327 MAIN ST	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1022203962		JAMES GROCERY & SERVICE STN	849 E MAIN ST		HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1010040889	110028113752	HARLEYVILLE	968 E. MAIN STREET		HARLEYVILLE	SC	ICIS, FINDS
29448	1021627023		SHIEDERS GULF SERVICE STATION	MAIN ST	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1020801574		HARLEYVILLE ONE STOP SERVICE	MAIN ST	**	HARLEYVILLE	SC	EDR Historical Auto

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ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
29448	S127637212		FORMER JOHNSTON INN	MAIN ST	**	JOHNSTON	SC	Stations
29448	1007243773	110017155549	HARLEYVILLE GULF	MAIN ST & RAILROAD AVE		HARLEYVILLE	SC	FINDS
29448	U003522118	12394	HARLEYVILLE GULF	MAIN ST & RAILROAD AVE		HARLEYVILLE	SC	LUST, UST
29448	1020898924		HARLEYVILLE ONE STOP SERVICE	MAIN STREET	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1024609452	110070397813	DORCHESTER BIOMASS	609 7 MILE ROAD	**	HARLEYVILLE	SC	FINDS
29448	1014835814	110043432309	DORCHESTER BIOMASS LLC	7 MILE RD	**	HARLEYVILLE	SC	FINDS
29448	1012094775	110038792241	SOUTHERN BULK HAULERS-CLOSED	7 MILE RD AT RTE 453	**	HARLEYVILLE	SC	FINDS
29448	S127620619		RESIDENCE	41 MILL RD		SPARTANBURG	SC	
29448	1010349413	110030769639	PARAGON SITEWORK CONT/MILLPOND	MILLPOND RD	**	HARLEYVILLE	SC	FINDS
29448	1008180897		GIANT CEMENT COMPANY	P O BOX 352 / HIGHWAY 453 NORTH		HARLEYVILLE	SC	
29448	1010004589		GIANT CEMENT COMPANY	P O BOX 352 / HIGHWAY 453 NORTH		HARLEYVILLE	SC	FTTS
29448	S108051597	SC0000005004	HARLEYVILLE TOWN OF	OFF HWY 89	**	HARLEYVILLE	SC	NPDES
29448	1004780048	SCD069336659	TRUCK SERVICE INC	OFF SC 453	**	HARLEYVILLE	SC	RCRA-CESQG
29448	1005853384	110008566667	TRUCK SERVICE INCORPORATED	OFF SC 453	**	HARLEYVILLE	SC	FINDS
29448	1010331930	SCR000768101	CAROLINA COMPOSITES	139 PIONEER GYM RD		HARLEYVILLE	SC	RCRA-NonGen
29448	S111382795		GLOBAL RECOVERY LLC	139 PIONEER GYM RD.		HARLEYVILLE	SC	SWRCY
29448	1006818324	110002175841	HARLEYVILLE TOWN OF	119 SOUTH RAILROAD AVENUE		HARLEYVILLE	SC	FINDS
29448	S127635589		HARLEYVILLE ELEM SCHOOL	163 S RAILROAD AVE		HARLEYVILLE	SC	
29448	S127635734		HARLEYVILLE ELEMENTARY SCHOOL CA	163 S RAILROAD AVE	**	HARLEYVILLE	SC	
29448	1012094739	110038794686	TENN-CAROLINA-CLOSED	SC RD S-18-50, SC HWY 453	**	HARLEYVILLE	SC	FINDS
29448	1020992338		JOHNNIES SERVICE STATION	U S HWY 178 WEST	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1021975064		JOHNNIES SERVICE STATION	U S HWY 178 WEST	**	HARLEYVILLE	SC	EDR Historical Auto Stations
29448	A100267567		SOUTHERN BULK HAULERS (HQ)	SAFETY ST	**	HARLEYVILLE	SC	AST
29448	1001030651	110002252375	NATIONAL AUDOBON SOCIETY	331 SANCTUARY RD		HARLEYVILLE	SC	RCRA-NonGen, FINDS
29448	1008008923	110002175814	F BEIDLER FOREST	336 SANCTUARY RD		HARLEYVILLE	SC	FINDS
29448	S127616848		CHARLES DANTELER RESIDENCE	920 SECOND BEND ROAD		HARLEYVILLE	SC	
29448	A100174781	1526	STARTRANS INC	223 SEVEN MILE ROAD		HARLEYVILLE	SC	AST
29448	1004593615	6823	SANTEE CARRIERS DIV TIC UNITED COR	261 SEVEN MILE RD		HARLEYVILLE	SC	LUST, UST
29448	1004781258	SCR000761650	SANTEE CARRIERS DIV TIC UNITED CORI	261 SEVEN MILE RD		HARLEYVILLE	SC	RCRA-NonGen
29448	A100158122	1042	SANTEE CARRIERS (HQ)	261 SEVEN MILE ROAD		HARLEYVILLE	SC	AST
29448	S128052479		EDISTO REDI-MIX	277 SEVEN MILE RD	**	HARLEYVILLE	SC	AIRS
29448	1027112114	110071141701	EDISTO REDI-MIX	277 SEVEN MILE RD	**	HARLEYVILLE	SC	FINDS
29448	1026930052		EDISTO REDI-MIX	277 SEVEN MILE RD	**	HARLEYVILLE	SC	
29448	U003525393	2936	GRR STORAGE BUILDING	482 SEVEN MILE RD		HARLEYVILLE	SC	UST
29448	1000408121	SCD981759020	SOUTHERN BULK HAULERS INC	482 SEVEN MILE RD		HARLEYVILLE	SC	RCRA-NonGen
29448	1016240430	110007833087	SOUTHERN BULK HAULERS, INC.	482 SEVEN MILE ROAD		HARLEYVILLE	SC	FINDS
29448	S127509636		ORANGEBURG REDI-MIX CONCRETE INC	522 SEVEN MILE RD	**	HARLEYVILLE	SC	AIRS
29448	1026900731		ORANGEBURG REDI-MIX CONCRETE INC	522 SEVEN MILE RD	**	HARLEYVILLE	SC	
29448	1016118319	110008551316	STAR REDI-MIX INC - HARLEYVILLE	522 SEVEN MILE RD		HARLEYVILLE	SC	FINDS
29448	1026540577	110070834466	DORCHESTER BIOMASS LLC	609 SEVEN MILE RD	**	HARLEYVILLE	SC	FINDS
29448	S118175949		DORCHESTER BIOMASS LLC	609 SEVEN MILE RD	**	HARLEYVILLE	SC	AIRS
29448	1021707008		RONNIES OFFICE	229 SHIELDS DR		HARLEYVILLE	SC	EDR Historical Auto Stations
29448	1011998460	110038244520	CAROLINA EASTERN - SAUNDERS FARM	1548 STOKES RD		WALTERBORO	SC	FINDS
29448	S113910688			TUNNEL RD	**	HARLEYVILLE	SC	CDL
29448	1027103132	110009811579	GIANT CEMENT WASHIE RD SAND MN	WASHIE RD	**	DDORCHESTER	SC	FINDS
29448	1024922278		WASHIE ROAD SAND MINE	WASHIE ROAD		HARLEYVILLE	SC	
29477	1021338040		SWEATMANS GROCERY		**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1025580598		JANET PLANT			SAINT GEORGE	SC	
29477	1025770552		EAST COOPER MINE			SAINT GEORGE	SC	
29477	S127639910		ITT INDUSTRIES - TRANSDUCER ROOM	5154 HWY #78	**	SAINT GEORGE	SC	
29477	1021614680		TRAVEL MART*	I-26 & U S 15	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007243234	110017149986	TRAVELAND OF ST GEORGE	I-95 & HWY 178	**	ST GEORGE	SC	FINDS
29477	1008010234	110008545903	JERRY S TRUCK STOP	I95 & 178	**	ST GEORGE	SC	FINDS
29477	1021597956		BARSHAS TEXACO & DISCOUNT FIRE	RR 1 BOX 317	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021988628		D J S GULF STATION	RT 1 BOX 178	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1020227696		BARSHAS TEXACO & DISCOUNT FIRE	RT 1 BOX 317	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007224862	110016959291	GRETA S	RT 1 PO BOX 35	**	ST. GEORGE	SC	FINDS
29477	U003524192	2922	PARLER STATION	1435 HWY 15 S		ST GEORGE	SC	GWCI, RCR, LUST, UST
29477	1007238349	110017098825	PARLER STATION	1435 HWY 15 SOUTH		ST GEORGE	SC	FINDS
29477	1008010017	110002328669	WAGERS DAY CARE CENTER	1725 HWY 15 N		ST GEORGE	SC	FINDS
29477	S127617307		INDIAN FIELD UMC	2030 HWY 15 NORTH		ST GEORGE	SC	

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29477	2008876841		MIMS OIL CO INC	2054 HIGHWAY 15 NORTH		ST GEORGE	SC	ERNS
29477	A100267548		SOUTHEASTERN OIL	651 HWY 15 SOUTH		ST. GEORGE	SC	AST
29477	1004781214	SCR000761155	M & M TRUCK STOP	960 HWY 15 SOUTH	**	ST GEORGE	SC	RCRA-NonGen
29477	1021932527			HIGHWAY 15 & HIGHWAY 26	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021342209		SKYLINE TIRE SERVICE	HIGHWAY 15 SOUTH	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1020222153		COLSONS GARAGE & WRECKER SVC	HWY 15	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1008010244	110008546010	DORCHESTER ICE COMPANY	HWY 15	**	ST GEORGE	SC	FINDS
29477	1008010231	110008545841	SIMONS DAY CARE CENTER	HWY 15	**	ST GEORGE	SC	FINDS
29477	1021567924		JOHNSTON M B OIL CORP	HWY 15 N	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007242808	110017145613	LEGRANDE FENDER INC	HWY 15 N	**	ST GEORGE	SC	FINDS
29477	1020658886		JOHNSTON M B OIL CORP	HWY 15 N	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	U003523134	12147	LEGRANDE FENDER INC	HWY 15 N	**	ST GEORGE	SC	GWCI, RCR, LUST, UST
29477	U003521723	3068	GEORGE STROBEL SERVICE STATION	HWY 15 N	**	ST GEORGE	SC	LUST, UST
29477	1020548551		WAGERS JOHN DAVID	HWY 15 NORTH	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021529842		WAGERS JOHN DAVID	HWY 15 NORTH	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007245379	110017172307	GEORGE STROBEL SERVICE STA	HWY 15 NORTH	**	ST GEORGE	SC	FINDS
29477	1021628551		SKYLINE TIRE SERVICE	HWY 15 SOUTH	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007245380	110017172316	OPAL 15	HWY 15 SOUTH	**	ST GEORGE	SC	FINDS
29477	1020627597		SKYLINE TIRE SERVICE	HWY 15 SOUTH	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021737831		MONEY SAVER TRUCK STOP	US 15 AND I 26	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007230004	110017012285	BECKER SAND & GRAVEL CO INC	US 15 SOUTH	**	ST GEORGE	SC	FINDS
29477	1008010563	110008555802	RALPH INFINGERS GROCERY	HWY 178 @ HWY 15	**	ROSINVILLE	SC	FINDS
29477	1022185385		INFINGERS BILL GR & SV STN	HWY 178 N	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1020402771		INFINGERS BILL GR & SV STN	HWY 178 N	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1008009857	110002309118	BLOSSOM DAY CARE CENTER	S 18 19	**	GROVER	SC	FINDS
29477	1021704374		MONEY SAVER TRUCK STOP	HWY 26	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007233398	110017047275	DORCHESTER COUNTY AIRPORT	RT 3 BOX 296	**	ST GEORGE	SC	FINDS
29477	1000461933	SCD987578366	SIMON LG INDUSTRIES INC	ROUTE 3, ACADEMY ROAD	**	ST. GEORGE	SC	RCRA-NonGen
29477	1018160403	110066987130	DOMINION CAROLINA GAS TRANSMISSIO	26-100 HWY 78	**	ST GEORGE	SC	RCRA-NonGen, FINDS
29477	1016120530	110002331101	UNIVERSAL REFINING OF SC LLC	4371 HIGHWAY 78	**	SAINT GEORGE	SC	FINDS
29477	A100267518	1069	JBS OIL INC.	4371 HWY 78	**	ST. GEORGE	SC	AST
29477	1000125555	SCD981932122	UNIVERSAL ENVIRONMENTAL SERVICES	4371 HWY 78	**	ST. GEORGE	SC	RCRA-CESQG
29477	1016935397		UNIVERSAL ENVIRONMENTAL SERVICES	4371 HWY 78	**	SAINT GEORGE	SC	
29477	1007832841	110019968310	CALVARY BAPTIST CHURCH	4554 HWY 78	**	SAINT GEORGE	SC	FINDS
29477	1000108458	SCD982114621	ITT CONOFLOW	5154 HWY 78	**	ST GEORGE	SC	RCRA-CESQG
29477	1020402052		GREENS UNION 76	HIGHWAY 78	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021279166		S & S MART	HWY 78	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021142168		BRABHAM OIL CO INC	HWY 78 & I 95	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021036355		SHIEDERS SMALL ENGINES	HWY 78 & I-95	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1008010562	110008555795	DORCHESTER COUNTY PUPLIC WKS WO	HWY 78 @ 89	**	SAINT GEORGE	SC	FINDS
29477	1022113140		INFINGERS BILL GR & SV STN	HWY 78 N	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1020347423		JERRYS UNION 76	178 EX 82 I95	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007243217	110017149799	JERRYS TRUCK STOP	I 95 & HWY 178 EXIT	**	ST GEORGE	SC	FINDS
29477	1020490303		JERRYS UNION 76	I 95 178 EX 82	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007245319	110017171692	GREENES UNION 76	I 95 AND HWY 78	**	ST GEORGE	SC	FINDS
29477	1021018292		INFINGERS AMOCO	I 95 N 178	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021359132		WAGERS WALTER	<	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021998113		WAGERS WALTER	<	**	SAINT GEORGE	SC	EDR Historical Auto Stations

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29477	S117361532		BID GROUP TECH	176 ACADEMY RD		SAINT GEORGE	SC	AIRS
29477	1016184942	110002196301	SIMON LG INDUSTRIES INCORPORATED	176 ACADEMY RD		SAINT GEORGE	SC	FINDS
29477	1017385750	110062741109	COMACT EQUIPMENT US INC	176 ACADEMY RD		SAINT GEORGE	SC	FINDS
29477	1016185189	110002252507	DORCHESTER SCHOOL BUS SHOP	347 ACADEMY RD		SAINT GEORGE	SC	FINDS
29477	U003603753	2927	DORCHESTER SCHOOL BUS SHOP	347 ACADEMY RD		ST GEORGE	SC	LUST, UST
29477	1004780335	SCD982171969	DORCHESTER SCHOOL BUS SHOP	347 ACADEMY RD		ST GEORGE	SC	RCRA-CESQG
29477	1026638624		SOUTH CAROLINA DEPARTMENT OF EDU	347 ACADEMY ROAD		ST. GEORGE	SC	PRP
29477	1000575692	SCD987581170	TERRA FIRST INC	ACADEMY RD HWY 167&168 INTERSE		ST GEORGE	SC	RCRA-NonGen
29477	1016240601	110007836208	TERRA FIRST INC	ACADEMY RD HWY 167&168 INTERSE	**	SAINT GEORGE	SC	FINDS
29477	S120983403		RESIDENTIAL	101 ANN AST		SAINT GEORGE	SC	
29477	1007240956	110017126171	DORCHESTER SOIL & WATER CONSERV/	ATTN: WILFRED L PACE DISTRICT CONSE	**	ST. GEORGE	SC	FINDS
29477	1007648007	110020063839	SCDOT/GROVER PIT	AUTUMN RUM RD		ST GEORGE	SC	FINDS
29477	S119120344		RESIDENCE	3 BEHLING CT		ST GEORGE	SC	
29477	1007224890	110016959576	BLACKS KITCHEN	PO BOX 139	**	ST. GEORGE	SC	FINDS
29477	1007228019	110016991861	AFTER SCHOOL/SUMMER FUN	PO BOX 186-1	**	ST GEORGE	SC	FINDS
29477	1007836653	110020006438	KEITH BRITT TRUCKING & CONSTRUCTIC	PO BOX 334	**	SAINT GEORGE	SC	FINDS
29477	1007224860	110016959273	GREENE S REST	PO BOX 616	**	ST GEORGE	SC	FINDS
29477	1021019817		WEATHERS SERVICE STATION	100 CAROLINA AVE		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1012094478	110038794613	US COCOA MAT CORP-CLOSED	CEDAR & MURRAY ST		ST GEORGE	SC	FINDS
29477	1027144857	110071202478	SEFA TRANSPORTATION INC	9324 CHARLESTON HWY		ST GEORGE	SC	FINDS
29477	U003970177	3036	QUICK PANTRY 29	9481 CHARLESTON HWY		ST GEORGE	SC	GWCI, RCR, LUST, UST
29477	1020174897		CARNS SHELL LLC	9481 CHARLESTON HWY		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007260120	110017332028	RAINBOW GAS 14	9481 CHARLESTON HWY		ST GEORGE	SC	FINDS
29477	1022186908		FINNEY-WITT ENTERPRISES INC	9484 CHARLESTON HWY		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	U004291334		JERRY S TRUCK STOP	9484 CHARLESTON HWY		SAINT GEORGE	SC	UIC, LUST, UST
29477	1007245318	110017171683	JERRYS TRUCK STOP	9484 CHARLESTON HWY		ST GEORGE	SC	FINDS
29477	U003521887	3061	JERRYS TRUCK STOP	9484 CHARLESTON HWY		ST GEORGE	SC	GWCI
29477	1019326520	SCR000782748	WILCO TRAVEL PLAZA 4576	9587 CHARLESTON HWY		ST GEORGE	SC	RCRA-NonGen
29477	1021531110		WILCOHESS LLC	9587 CHARLESTON HWY		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007247379	110017192839	WILCO FUEL PLAZA 930	9587 CHARLESTON HWY		ST GEORGE	SC	FINDS
29477	1018382804	110069457386	WILCO TRAVEL PLAZA 4576	9587 CHARLESTON HWY		ST GEORGE	SC	FINDS
29477	U003631881	17642	PILOT 4576	9587 CHARLESTON HWY		ST GEORGE	SC	LUST, UST
29477	1018313409	110064836398	HESS # 40715	9587 CHARLESTON HWY		ST. GEORGE	SC	ICIS, FINDS
29477	1020848951		BILLYS TOWING INC	9606 CHARLESTON HWY		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007236633	110017080950	PPI #1	9607 CHARLESTON HWY		SAINT GEORGE	SC	FINDS
29477	1021704385		ST GEORGE BP NO 2	9607 CHARLESTON HWY		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	U003631177	3026	INFINGERS AMOCO	9607 CHARLESTON HWY		ST GEORGE	SC	GWCI, LUST, UST
29477	1007226524	110016976600	INFINGERS AMOCO	9607 CHARLESTON HWY		ST GEORGE	SC	FINDS
29477	U004255176		ENK 894	9607 CHARLESTON HWY		SAINT GEORGE	SC	UST
29477	1007228084	110016992511	RAY S REST	9471 CHS HWY	**	ST GEORGE	SC	FINDS
29477	1007240670	110017123174	ST GEORGE GOLF CLUB	218 CLUB HOUSE CIR DR		ST GEORGE	SC	FINDS
29477	94235750			218 CLUBHOUSE CIRCLE		ST GEORGE	SC	ERNS
29477	1017385752	110062741127	USCOA LLC	160 COCOA ST		SOUTH CAROLINA	SC	FINDS
29477	1024418652	110070336839	69427 - U S COCOA MAT LLC	160 COCOA STREET		SAINT GEORGE	SC	FINDS
29477	1004595171	110002473118	USCOA INTERNATIONAL CORP	COCOA & MURRAY STREETS		SAINT GEORGE	SC	FINDS
29477	1007246766	110017186588	USCOA INTL CORP	COCOA ST		ST GEORGE	SC	FINDS
29477	1022150379		ST GEORGE AMOCO	129 CONNELLY HAYNES RD		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1024438619	110070914004	CAROLINA GAS TRANSMISSION LLC - DO	COUNTY ROAD S-18-37	**	SAINT GEORGE	SC	FINDS
29477	S127509595		CAROLINA GAS TRANSMISSION LLC DOR	COUNTY ROAD S-18-37	**	SAINT GEORGE	SC	AIRS
29477	1005852609	110006840516	TRULUCK CONSTRUCTION REEVES EDIS	COUNTY ROUTE 19	**	SAINT GEORGE	SC	FINDS
29477	S119008700			616 COWTAIL RD		ST GEORGE	SC	CDL
29477	1007243895	110017156762	DORCHESTER PW/TRANQUIL ACRES N	DORCHESTER PW/PO BOX 416	**	ST GEORGE	SC	FINDS
29477	1007243894	110017156753	DORCHESTER PW/STRATTON CAPERS	DORCHESTER PW/PO BOX 416	**	ST GEORGE	SC	FINDS
29477	1007243893	110017156744	DORCHESTER PW/ASHLEY FOREST	DORCHESTER PW/PO BOX 416	**	ST GEORGE	SC	FINDS
29477	S128050958		116 INTERSTATE DRIVE BUILDING	116 INTERSTATE DRIVE		ST. GEORGE	SC	
29477	1007233909	110017052776	JOSEPH N BYRON JR DMD	100 DUKES ST		ST GEORGE	SC	FINDS
29477	S127022936		777 DURHAMS CORNER RD-RESIDENCE	777 DURHAMS CORNER RD	**	REEVESVILLE	SC	
29477	1008009856	110002309109	ALLEGRETTO S MEAT MKT	190 FOX RUN RD		SAINT GEORGE	SC	FINDS
29477	S128050539		WMES	351 GARVIN ST		ST. GEORGE	SC	
29477	1007257003	110017299449	DORCHESTER COUNTY HEALTH DEPT ST	201 GAVIN ST		ST GEORGE	SC	FINDS
29477	S128541480		411 GAVIN ST	411 GAVIN ST		ST GEORGE	SC	
29477	S128542027		411 GAVIN ST	411 GAVIN ST		ST GEORGE	SC	
29477	S120980211		301 E GEORGE ST	301 E GEORGE ST		SAINT GEORGE	SC	
29477	1008008930	110002175903	DOR WEIGH STA I-26 EAST	HARRY REEDY	**	ST GEORGE	SC	FINDS

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29477	1008009522	110002228875	DOR WEIGH STA I-26 WEST	HARRY REEDY	**	ST GEORGE	SC	FINDS
29477	1018121938	110064620664	DORCHESTER CO/UPPER DORCHESTER	125 HEATHERWOOD DR		SAINT GEORGE	SC	ICIS, FINDS
29477	S110530006		DORCHESTER CO/UPPER DORCHESTER	125 HEATHERWOOD DR		SAINT GEORGE	SC	NPDES
29477	S128542017		107 HORNE ST	107 HORNE ST		SAINT GEORGE	SC	
29477	S128541473		107 HORNE ST	107 HORNE ST		SAINT GEORGE	SC	
29477	S128542018		201 HORNE ST	201 HORNE ST		SAINT GEORGE	SC	
29477	S128541474		201 HORNE ST	201 HORNE ST		SAINT GEORGE	SC	
29477	A100267794	1656	ST. GEORGE AIRPORT - DORCHESTER CI	541 HORNE TAYLOR RD		ST GEORGE	SC	AST
29477	1008008926	110002175850	HUGHES TRAILER PARK	805 HORNE ST		ST GEORGE	SC	FINDS
29477	U003525575	15293	ST GEORGE AIRPORT	HORNE TAYLOR RD	**	ST GEORGE	SC	LUST, UST
29477	1007231702	110017029865	ST GEORGE AIRPORT	HORNE TAYLOR RD	**	ST GEORGE	SC	FINDS
29477	1008008927	110002175869	NOW INC	304 HUDSON RD		ST GEORGE	SC	FINDS
29477	1008010019	110002328687	J&T SWEATMAN S BBQ	2095 US HWY 15N		ST GEORGE	SC	FINDS
29477	1007226566	110016977039	ST GEORGE CHIP MILL	SC HWY 78 BOX 717	**	ST GEORGE	SC	FINDS
29477	U003526389	14511	GRUBER, W	US HWY 15 S		ST GEORGE	SC	LUST, UST
29477	1022200680		S & S MART	US HWY 78 AT I-95	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021626116		WEATHERS DAVID C	HWYS 178 & 15	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021022741		GREEN JOHN T JR	I-95	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021323351		FINNEY-WITT ENTERPRISES INC	I95/HWY 178	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	U004253515		ST GEORGE MAINTENANCE FACILITY	5225 E JIM BILTON BLVD	**	SAINT GEORGE	SC	LUST, UST
29477	S128182507		ST GEORGE MAINTENANCE FACILITY	5225 E JIM BILTON BLVD	**	SAINT GEORGE	SC	
29477	1004780256	SCD982113995	SCDOT ST GEORGE	5225 E JIM BILTON BLVD	**	ST GEORGE	SC	RCRA-CESQG
29477	U003604094	2916	ST GEORGE MAINTENANCE FACILITY	5225 E JIM BILTON BLVD		SAINT GEORGE	SC	GWCI, RCR
29477	U004255582		ST GEORGE MAINTENANCE FACILITY	5225 E JIM BILTON BLVD	**	SAINT GEORGE	SC	LUST, UST
29477	S128182522		ST GEORGE MAINTENANCE FACILITY	5225 E JIM BILTON BLVD	**	SAINT GEORGE	SC	
29477	1016119535	110007834273	SCDOT SAINT GEORGE	5225 EAST JIM BILTON BOULEVARD		ST GEORGE	SC	FINDS
29477	S125479163		ST GEORGE SUBSTATION STORAGE SHE	5808 W JIM BILTON BLVD		SAINT GEORGE	SC	
29477	1016184944	110002196365	JIM BILTON FORD INCORPORATED	5866 W JIM BILTON BLVD		SAINT GEORGE	SC	FINDS
29477	1004780901	SCR000002378	JIM BILTON FORD INC	5866 W JIM BILTON BLVD		ST GEORGE	SC	RCRA-CESQG
29477	1007231914	110017032058	E Z SHOP 14	5963 W JIM BILTON BLVD		ST GEORGE	SC	FINDS
29477	U003631813	15486	E Z SHOP 14	5963 W JIM BILTON BLVD		ST GEORGE	SC	GWCI, RCR, LUST, UST
29477	1021279181		BRABHAM OIL COMPANY INC	5963 W JIM BILTON BLVD		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	S126294115		ST. GEORGE PLAZA	5982 W. JIM BILTON BLVD.		ST. GEORGE	SC	
29477	U003631664	11813	ST GEORGE EXXON	5987 JIM BILTON BLVD		ST GEORGE	SC	LUST, UST
29477	1007239468	110017110419	ST GEORGE EXXON	5987 JIM BILTON BLVD		ST GEORGE	SC	FINDS
29477	1020716310		SELF SERVE INC	5987 W JIM BILTON BLVD		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	U004107264	19302	SHOWTIME FIREWORKS	6012 JIM BILTON BLVD		SAINT GEORGE	SC	UST
29477	U003930053	11931	ST GEORGE BP	6118 JIM BILTON BLVD		ST GEORGE	SC	LUST, UST
29477	1007245673	110017175386	ST GEORGE BP	6118 JIM BILTON BLVD		ST GEORGE	SC	FINDS
29477	1020394748		SELF SERVE INC	6118 W JIM BILTON BLVD		SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007243515	110017152891	RAINBOW GAS GARDEN 8	6131 JIM BILTON BLVD		ST GEORGE	SC	FINDS
29477	U003631186	3035	RAINBOW GAS GARDEN 8	6131 JIM BILTON BLVD		ST GEORGE	SC	GWCI, UIC, RCR, LUST, UST
29477	1022138107		SELF SERVE INC	JIM BULTON BLVD	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	S127650169		PREMIER ENVIRONMENTAL SERVICES - V	100 KLAUBER ST		SAINT GEORGE	SC	
29477	1006931475	SCR000764696	PREMIER ENVIRONMENTAL SERVICES IN	100 KLAUBER ST		ST GEORGE	SC	RCRA-NonGen
29477	1001969329	SCR000075473	SCDOT ST GEORGE	LOT B JIM BILTON BLVD	**	ST GEORGE	SC	RCRA-NonGen
29477	1008010609	110008556623	BRAX N RIGGS	LOU ANN RIGGS	**	ST GEORGE	SC	FINDS
29477	1020943079		LARRYS GULF & GROCERY	715 N MAIN STREET	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	S127617102		203 MAY ST - ZARBO	203 MAY ST		SAINT GEORGE	SC	
29477	1007229961	110017011856	SOUTHERN BELL STGRSCMA	MAY ST		ST GEORGE	SC	FINDS
29477	1016184943	110002196347	ISLAND DIRT INC.	202 W MEMORIAL BLVD		SAINT GEORGE	SC	FINDS
29477	1007234781	110017061659	BOBS AUTO CENTER	306 MEMORIAL BLVD		ST GEORGE	SC	FINDS
29477	U003519455	14825	BOBS AUTO CENTER	306 MEMORIAL BLVD		ST GEORGE	SC	GWCI, UIC, RCR, LUST, UST
29477	1019973775		DIXIE CLEANERS	400 E MEMORIAL BLVD		SAINT GEORGE	SC	EDR Historical Cleaners
29477	1007233898	110017052669	WILLIAM SCOTT GARRIS DMD	5442 MEMORIAL BLVD		ST GEORGE	SC	FINDS
29477	1007243191	110017149539	M&M QUICK STOP	5514 MEMORIAL BLVD		ST GEORGE	SC	FINDS
29477	U003730116	3048	ME&M QUICK STOP	5514 MEMORIAL BLVD		ST GEORGE	SC	GWCI, RCR, LUST, UST
29477	1007231906	110017031978	JERRY B OWENS	5553 MEMORIAL BLVD		ST GEORGE	SC	FINDS
29477	U003631946	16411	OWENS, JERRY	5553 MEMORIAL BLVD		ST GEORGE	SC	LUST, UST
29477	1022181775		BOWEN RICK	5568 MEMORIAL BLVD		SAINT GEORGE	SC	EDR Historical Auto

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29477	U003631164	2944	JD'S ONE STOP	5568 MEMORIAL BLVD		ST GEORGE	SC	Stations
29477	1007230011	110017012374	RICKBORNS HORIZON	5568 MEMORIAL BLVD		ST GEORGE	SC	LUST, UST
29477	1007243514	110017152882	CORNER STOP 48	5581 MEMORIAL BLVD		ST GEORGE	SC	FINDS
29477	U004018622	3040	QUICK PANTRY 12/FAST POINT/CITGO	5581 MEMORIAL BLVD		ST GEORGE	SC	FINDS
29477	1020144259		CITGO FAST POIN	5581 MEMORIAL BLVD		SAINT GEORGE	SC	GWCI, RCR, LUST, UST EDR Historical Auto
29477	1019973782		DIXIE CLEANERS	5582 MEMORIAL BLVD		SAINT GEORGE	SC	Stations
29477	1007241925	110017136222	PALMETTO CHIROPRACTIC	5582 MEMORIAL BLVD		ST GEORGE	SC	EDR Historical Cleaners
29477	S127639595		PIGGLY WIGGLY #51	5583 MEMORIAL BLVD		SAINT GEORGE	SC	FINDS
29477	S127619870		PIGGLY WIGGLY #51	5583 MEMORIAL BLVD		SAINT GEORGE	SC	
29477	1019977684		DUKES DRY CLEANERS	5678 MEMORIAL BLVD		SAINT GEORGE	SC	EDR Historical Cleaners
29477	1025914445		DOMINION ENERGY SC ST GEORGE	5733 MEMORIAL BLVD		SAINT GEORGE	SC	
29477	1025983425	110070595570	DOMINION ENERGY SC ST GEORGE	5733 MEMORIAL BLVD		SAINT GEORGE	SC	
29477	1025888277	SCR000786541	DOMINION ENERGY SC ST GEORGE	5733 MEMORIAL BLVD		SAINT GEORGE	SC	FINDS
29477	A100267645	1379	SCE&G - ST. GEORGE CREW QUARTERS	5733 MEMORIAL BLVD.		ST. GEORGE	SC	RCRA-CESQG
29477	S127623913		SCE&G ST GEORGE TRANSMISSION SWI	5808 MEMORIAL BLVD		SAINT GEORGE	SC	AST
29477	1020202104		SELF SERVE INC	5987 MEMORIAL BLVD		SAINT GEORGE	SC	EDR Historical Auto
29477	1018596890		ACE DRY CLEANERS	756 W MEMORIAL BLVD	**	SAINT GEORGE	SC	Stations
29477	1000111213	SCD982110397	DUKES DRY CLEANERS	756 W MEMORIAL BLVD		ST GEORGE	SC	EDR Historical Cleaners
29477	1016185190	110002252525	DUKES DRY CLEANERS	756 W MEMORIAL BLVD HWY 78		SAINT GEORGE	SC	RCRA-NonGen
29477	1022109657		BEHLING GROCERY	901 MEMORIAL BLVD	**	SAINT GEORGE	SC	FINDS
29477	1020806397		BEHLING GROCERY	901 W MEMORIAL BLVD	**	SAINT GEORGE	SC	EDR Historical Auto
29477	S125920670		ADULT LEARNING CENTER	121 S METTS ST		SAINT GEORGE	SC	Stations
29477	S127619330		WILLIAMS MEMORIAL ELEMENTARY SCH	290 S METTS ST		SAINT GEORGE	SC	EDR Historical Cleaners
29477	S127663461		WILLIAMS MEMORIAL ES	290 S METTS ST		SAINT GEORGE	SC	RCRA-NonGen
29477	1016301203	110012223682	J&J TRUCKING	384 N METTS ST		SAINT GEORGE	SC	FINDS
29477	1005418357	SCR000762435	J&J TRUCKING	384 N METTS ST	**	ST GEORGE	SC	RCRA-NonGen
29477	S127624533		ST GEORGE MIDDLE SCHOOL	600 MINUS ST		SAINT GEORGE	SC	
29477	1006329121	110012707384	WESTVACO ST. GEORGE CHIP MILL	107 MOTEL DR.		SAINT GEORGE	SC	FINDS
29477	U004127764		PILOT TRAVEL CENTER 493	113 MOTEL DR		SAINT GEORGE	SC	UST
29477	1007260076	110017331582	TEXAMART EXIT 77 STORE 107	121 MOTEL DR		ST GEORGE	SC	FINDS
29477	U003631195	3039	CARTERS 121	121 MOTEL DR		ST GEORGE	SC	LUST, UST
29477	1022003384		INFINGERS AMOCO	I-95 N	**	SAINT GEORGE	SC	EDR Historical Auto
29477	1021110092		INFINGERS AMOCO	I-95 N 178	**	SAINT GEORGE	SC	Stations
29477	1020169693		INFINGERS AMOCO	I-95 NORTH	**	SAINT GEORGE	SC	EDR Historical Auto
29477	1020955640		SWEATMANS GROCERY	OFF OLD WIRE RD	**	SAINT GEORGE	SC	Stations
29477	S103245616		CHARLESTON LANDFILL	S ON HWY 78 FROM INT HWY 15		ROSINVILLE	SC	EDR Historical Auto
29477	S125363160		HUTTOS SHELL STATION	103 PARK ST	**	ST GEORGE	SC	ALLSITES, SHWS
29477	1020287130		HUTTOS SHELL STATION	100 S PARLER AVE		SAINT GEORGE	SC	CDL
29477	1000233755	SCD982109167	ST GEORGE GULF	101 PARLER AVE		ST GEORGE	SC	EDR Historical Auto
29477	S127637488		SERVICE STATION	101 PARLER ST	**	SAINT GEORGE	SC	Stations
29477	1020318593		WEATHERS GULF SERVICE	101 S PARLER ST		SAINT GEORGE	SC	RCRA-NonGen
29477	S127617235		PARLOR AVE ST GEORGE	105 N PARLER AVE		SAINT GEORGE	SC	EDR Historical Auto
29477	S127616621		109 N PARLOR AVE- DEMO	109 N PARLER AVE		ST. GEORGE	SC	Stations
29477	S120982832		ST GEORGE UNITED METHODIST CHURC	120 N PARLER AV		SAINT GEORGE	SC	EDR Historical Auto
29477	1016185191	110002252614	COLSONS B S	210 S PARLER AVE		SAINT GEORGE	SC	Stations
29477	1000835507	SCD987595832	COLSONS BODY SHOP	210 S PARLER AVE		ST GEORGE	SC	FINDS
29477	1020960039		HEATON JERRY CORDELL	224 N PARLER AVE		SAINT GEORGE	SC	RCRA-NonGen
29477	1000408126	SCD982109480	WEATHERS GULF	301 NORTH PARLER		ST GEORGE	SC	EDR Historical Auto
29477	1020222219		HONEST JOHNNYS FIREWORKS	315 S PARLER AVE		SAINT GEORGE	SC	Stations
29477	S125363164		PERSAUD CONVENIENCE STORE	321 S PARLER AVE		ST GEORGE	SC	CDL
29477	U003908263	18907	AWRATEY PERSAUD DBA PERSAUDS CO	414 S PARLER AVE		ST GEORGE	SC	LUST, UST
29477	1007226028	110016971419	SINGLE FAMILY RESIDENCE	414 S PARLER AVE		ST GEORGE	SC	FINDS
29477	S119121269		CARSONS AMOCO	502 N PARLER DR		SAINT GEORGE	SC	
29477	1021943067		CARSONS AMOCO	503 N PARLER AVE		SAINT GEORGE	SC	EDR Historical Auto
29477	U004255615		CARSONS AMOCO	503 N PARLER AVE		ST GEORGE	SC	Stations
29477	U003930715	3027	CARSONS AMOCO	503 N PARLER AVE		ST GEORGE	SC	LUST, UST
29477	U004253505		ST GEORGE AMOCO	503 N PARLER AVE		ST GEORGE	SC	GWCI, RCR
								UST

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29477	S128051025	SCR000763078	507 NORTH PARLER AVENUE JOB#3775-2	507 N PARLER AVE		SAINT GEORGE	SC	RCRA-NonGen EDR Historical Auto Stations
29477	1007116370		PREMIER ENVIRONMENTAL SERVICES IN	601 N PARLER AVE		ST GEORGE	SC	
29477	1020316846		LARRYS GULF & GROCERY	715 N PARLER AVE		SAINT GEORGE	SC	
29477	1020430300		MINUS EXXON SERVICE STATION	N PARLER & SOCIETY	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021901714		MINUS ESSO SERVICE STATION	N PARLER & SOCIETY	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021717535		MINUS EXXON SERVICE STATION	N PARLER AVE & SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021088491		MINUS EXXON SERVICE STATION	N PARLER AVE & SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	S128891225	110016957131	FORMER NORFOLK SOUTHERN RR FACIL	PARLER AVE AT N RAILROAD AV	**	SAINT GEORGE	SC	LUST FINDS
29477	1007224651		FORMER NORFOLK SOUTHERN RR FACIL	PARLER AVE AT N RAILROAD AVE	**	SAINT GEORGE	SC	
29477	U003930660		18978	FORMER NORFOLK SOUTHERN RR FACIL	PARLER AVE AT N RAILROAD AVE	**	SAINT GEORGE	
29477	1007245294	110017171442	ARNOLD STEWARD	S PARLER & RAILROAD AVE	**	ST GEORGE	SC	FINDS
29477	S116706419		ARNOLD STEWARD	S PARLER & RAILROAD AVE	**	ST GEORGE	SC	UIC
29477	1005418334	SC0000988329	SCARNG ST GEORGE	SOUTH PARLER AVE	**	ST GEORGE	SC	RCRA-NonGen
29477	U003631208	3051	ARNOLD STEWARD	101 S PARLOR AVE	**	ST GEORGE	SC	RCR, LUST, UST
29477	1022158809		WEATHERS GULF SERVICE	301 N PARLOR	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007258135	110017311416	R WHALEY DURR HARTZOG PIT	302 N PARLOR AVE		SAINT GEORGE	SC	FINDS
29477	1022029005		CARSONS AMOCO	503 PARLOR AVE	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1001225607	110002239836	THE BODY SHOP	3001 PIEDMONT AVE		MYRTLE BEACH	SC	RCRA-CESQG, FINDS
29477	93158651			POLK SWAMP	**	ST. GEORGE	SC	ERNS
29477	1011910845	110037285586	PREMIER ENVIRONMENTAL SERVICES FI	POSTAL ADDRESS IS UNAVAILABLE FOR	**	ST. GEORGE	SC	FINDS
29477	1014834860	110040709926	ARNOLD STEWARD RELEASE 2	108 RAILROAD AVE SE	**	SAINT GEORGE	SC	FINDS
29477	1014834859	110040709917	ARNOLD STEWARD RELEASE 1	108 RAILROAD AVE SE	**	SAINT GEORGE	SC	FINDS
29477	S123163267		HOUSE	200 NW RAILROAD AVE	**	SAINT GEORGE	SC	
29477	1019977679		DUKES CLEANERS	RAILROAD AVE	**	SAINT GEORGE	SC	EDR Historical Cleaners
29477	1014834865	110040712798	ANCRUM	RAILROAD AVE & S PARLER AVE	**	ST GEORGE	SC	FINDS
29477	1007244632	110017164539	RAINBOW TEXACO #14	RAINBOW GAS GARDEN #14/TEXACO	**	SAINT GEORGE	SC	FINDS
29477	1018799658		WIMBERLY JR JULIUS W	101 E RAYSOR ST	**	SAINT GEORGE	SC	EDR Historical Cleaners
29477	1018705013		WIMBERLY DRY CLEANERS	101 RAYSOR ST	**	SAINT GEORGE	SC	EDR Historical Cleaners
29477	1018933481		WIMBERLY JR JULIUS W	101 W RAYSOR ST	**	SAINT GEORGE	SC	EDR Historical Cleaners
29477	1020059982		PAUL CLEANERS	222 RAYSOR	**	SAINT GEORGE	SC	EDR Historical Cleaners
29477	1007240893	110017125500	RIVER RIDGE FARMS	600 RAYSOR ST	**	ST GEORGE	SC	FINDS
29477	S123792402		FORMER DAYS INN - POOL HOUSE	128 INTERSTATE RD	**	SAINT GEORGE	SC	
29477	S127654036		CEDARWOOD - APT #8	300 REED ST	**	SAINT GEORGE	SC	
29477	S125237943		OLD COURTHOUSE	101 RIDGE ST	**	SAINT GEORGE	SC	
29477	S123792548		ROY TURNER	200 RIDGE ST	**	SAINT GEORGE	SC	
29477	1010003335		DORCHESTER COUNTY SD #4	500 RIDGE ST	**	ST GEORGE	SC	FTTS
29477	1008178888		DORCHESTER COUNTY SD #4	500 RIDGE ST	**	ST GEORGE	SC	
29477	1004595129	110011522940	DORCHESTER COUNTY SD #4	500 RIDGE ST	**	SAINT GEORGE	SC	FINDS
29477	S128919424		DORCHESTER SCHOOL DISTRICT FOUR	500 RIDGE STREET	**	ST. GEORGE	SC	
29477	S128919836		DORCHESTER SCHOOL DISTRICT FOUR	500 RIDGE STREET	**	ST. GEORGE	SC	
29477	1007275801		DORCHESTER COUNTY SCHOOL DISTRIC	500 RIDGE STREET	**	ST. GEORGE	SC	FTTS
29477	1020121627		WIMBERLY DRY CLEANERS	106 ROYSON ST	**	SAINT GEORGE	SC	EDR Historical Cleaners
29477	1021769437		TRAVELAND OF S C INC	U S HWY 178 & 15	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1022003023		SWEATMANS GROCERY	113 SANDY BRANCH RD	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1007245141	110017169874	HUGHEY E AND SHERYL A REEVES	305 SARAH ST	**	SAINT GEORGE	SC	FINDS
29477	S126295021		DORCHESTER COUNTY DETENTION CEN	200 SEARS ST	**	SAINT GEORGE	SC	
29477	S126293065		OLD DETENTION CENTER	200 SEARS STREET	**	ST. GEORGE	SC	
29477	1021806046		HILLS QUICK STOP INC	101 SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021615627		HILLS QUICK STOP	101 SOCIETY STREET	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1020121626		WIMBERLY DRY CLEANERS	102-04 N/S SOCIETY	**	SAINT GEORGE	SC	EDR Historical Cleaners
29477	1021667061		KIZER SERVICE STATION	208 SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1022206022		KIZER SERVICE STATION	208 SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1020175340		REEVESVILLE REAL EST & INSUR	311 SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1021088461		BEHLINGS GROCERY	901 SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	1020658878		BEHLINGS GROCERY	901 SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations

EDR ZIP Code Scan Report

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
29477	1021762187		BEHLINGS GROCERY	SOCIETY ST	**	SAINT GEORGE	SC	EDR Historical Auto Stations
29477	S127559814			100 STOKES BRIDGE RD		ST GEORGE	SC	CDL
29477	S127560317			744 STOKES BRIDGE RD	**	ST GEORGE	SC	CDL
29477	1016184939	110002196276	SC FC COASTAL NURS	158 TREE FARM RD		SAINT GEORGE	SC	FINDS
29477	1000230254	SCD982098717	SC FORESTRY COMM COASTAL NUR	158 TREE FARM RD		ST. GEORGE	SC	RCRA-NonGen
29477	S126293202		COASTAL REGION TREE NURSERY	181 TREE FARM RD		ST. GEORGE	SC	
29477	S123792390		COASTAL NURSERY OFFICE	181 TREE FARM RD		SAINT GEORGE	SC	
29477	S126293914		COASTAL REGION TREE NURSERY	181 TREE FARM RD		ST. GEORGE	SC	
29477	S121352548			TWO BRIDGES RD	**	ST GEORGE	SC	CDL
29477	S128541481		118 WASHINGTON HEIGHTS ST	118 WASHINGTON HTS		SAINT GEORGE	SC	
29477	S128542032		118 WASHINGTON HEIGHTS ST	118 WASHINGTON HTS		SAINT GEORGE	SC	
29477	S128541482		120 WASHINGTON HEIGHTS ST	120 WASHINGTON HTS		SAINT GEORGE	SC	
29477	S128541998		120 WASHINGTON HEIGHTS ST	120 WASHINGTON HTS		SAINT GEORGE	SC	
29477	S118693055			109 WHITRIDGE LN		ST GEORGE	SC	CDL
29477	1007830033	110019940199	SCDOT WILCO TRUCK PLAZA	930 WILCO TRUCK PLAZA	**	SAINT GEORGE	SC	ICIS, FINDS
29477	1004781147	SCR000075754	SCDOT WILCO TRUCK PLAZA	930 WILCO TRUCK PLAZA	**	ST GEORGE	SC	RCRA-NonGen
29477	S117884531			114 WINNINGHAM RD		ST GEORGE	SC	CDL
29477	1007835937	110019999279	TRANSGLOBAL TRUCKING	320 WINNINGHAM RD		SAINT GEORGE	SC	FINDS
29477	1001969333	SCR000075515	TRANSGLOBAL	320 WINNINGHAM RD		ST GEORGE	SC	RCRA-NonGen
29477	1010451703	110031274902	BANKS CONSTRUCTION CO/SHANNON	2560 WIRE RD		SAINT GEORGE	SC	FINDS
29477	S116710461			2800 WIRE RD		ST GEORGE	SC	CDL
29477	1010690607	110033175267	CRYSTAL MINERALS MINE	WIRE RD	**	ST GEORGE	SC	FINDS
29477	1016044493	110054984816	MURRAY SAND CO INC/MATTHEW FIN	WIRE RD STATE RD S-18-19	**	GROVER	SC	FINDS
29477	1006327596	110012684201	MEM LLC/MIXSON MINE	WIRE ROAD		ST GEORGE	SC	FINDS
29477	1027145255	110071202911	DORCHESTER LOGISTICS INC/TOBACCO	WIRE ROAD S-18-19	**	GROVER	SC	FINDS

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: N/A
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/09/2023
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: N/A
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/09/2023
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 800-424-9346
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/23/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022	Source: EPA
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/16/2022	Source: Department of the Navy
Date Data Arrived at EDR: 08/22/2022	Telephone: 843-820-7326
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/20/2023
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/15/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2022	Telephone: 703-603-0695
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/15/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2022	Telephone: 703-603-0695
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 06/15/2022

Telephone: 202-267-2180

Date Made Active in Reports: 06/21/2022

Last EDR Contact: 09/20/2022

Number of Days to Update: 6

Next Scheduled EDR Contact: 01/02/2023

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Site Assessment Section Project List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/16/2022

Source: Department of Health and Environmental Control

Date Data Arrived at EDR: 06/24/2022

Telephone: 803-898-0835

Date Made Active in Reports: 09/12/2022

Last EDR Contact: 08/30/2022

Number of Days to Update: 80

Next Scheduled EDR Contact: 12/19/2022

Data Release Frequency: Semi-Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Permitted Landfills List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/09/2022

Source: Department of Health and Environmental Control

Date Data Arrived at EDR: 06/09/2022

Telephone: 803-734-5165

Date Made Active in Reports: 06/13/2022

Source: Department of Health and Environmental Control, GIS Section

Number of Days to Update: 4

Telephone: 803-896-4084

Last EDR Contact: 08/30/2022

Next Scheduled EDR Contact: 12/19/2022

Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/27/2022

Source: Department of Health and Environmental Control

Date Data Arrived at EDR: 07/27/2022

Telephone: 803-898-4350

Date Made Active in Reports: 10/13/2022

Last EDR Contact: 10/11/2022

Number of Days to Update: 78

Next Scheduled EDR Contact: 01/30/2023

Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022

Source: EPA, Region 5

Date Data Arrived at EDR: 06/13/2022

Telephone: 312-886-7439

Date Made Active in Reports: 08/16/2022

Last EDR Contact: 10/17/2022

Number of Days to Update: 64

Next Scheduled EDR Contact: 01/30/2023

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-6597
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022	Source: EPA Region 4
Date Data Arrived at EDR: 06/13/2022	Telephone: 404-562-8677
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021	Source: EPA Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 10/17/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3372
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6271
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 09/27/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Varies

UST: Comprehensive Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/07/2022	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 01/07/2022	Telephone: 803-896-7957
Date Made Active in Reports: 03/23/2022	Last EDR Contact: 09/28/2022
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank List

Registered Aboveground Storage Tanks.

Date of Government Version: 03/25/2004	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 08/04/2004	Telephone: 803-898-4350
Date Made Active in Reports: 09/23/2004	Last EDR Contact: 08/15/2022
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022	Source: EPA Region 4
Date Data Arrived at EDR: 06/13/2022	Telephone: 404-562-9424
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022	Source: EPA Region 9
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3368
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6137
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022	Source: EPA, Region 1
Date Data Arrived at EDR: 06/13/2022	Telephone: 617-918-1313
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022	Source: EPA Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-6136
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-7591
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

RCR: Registry of Conditional Remedies

The Bureau of Land and Waste Management established this Registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/13/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 78

Source: Department of Health & Environmental Control
Telephone: 803-896-4000
Last EDR Contact: 08/30/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

AUL: Land Use Controls

The term Land Use Controls or "LUCs" encompass institutional controls, such as those involved in real estate interests, governmental permitting, zoning, public advisories, deed notices, and other legal restrictions. The term also includes restrictions on access, whether achieved by means of engineered barriers (e.g., fence or concrete pad) or by human means (e.g., the presence of security guards). Additionally, the term includes both affirmative measures to achieve the desired restrictions (e.g., night lighting of an area) and prohibitive directives (e.g., restrictions on certain types of wells for the duration of the corrective action). Considered altogether, the LUCs for a facility will provide a tool for how the property should be used in order to maintain the level of protectiveness that one or more corrective actions were designed to achieve.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/08/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 79

Source: Department of Health & Environmental Control
Telephone: 803-896-4049
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/13/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

VCP: Voluntary Cleanup Sites

Sites participating in the Voluntary Cleanup Program. Once staff and a non-responsible party have agreed upon an approved scope of work for a site investigation and/or remediation, the party enters into a voluntary cleanup contract. Staff oversees the cleanup efforts to ensure that activities are performed to our satisfaction. Upon completion of the negotiated work in the voluntary cleanup contract, the non-responsible party receives State Superfund liability protection.

Date of Government Version: 07/11/2022
Date Data Arrived at EDR: 07/13/2022
Date Made Active in Reports: 09/27/2022
Number of Days to Update: 76

Source: Department of Health and Environmental Control
Telephone: 803-896-4049
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Sites Listing

The Brownfields component of the Voluntary Cleanup Program allows a non-responsible party to acquire a contaminated property with State Superfund liability protection for existing contamination by agreeing to perform an environmental assessment and/or remediation.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/11/2022
Date Data Arrived at EDR: 07/13/2022
Date Made Active in Reports: 09/27/2022
Number of Days to Update: 76

Source: Department of Health & Environmental Control
Telephone: 803-896-4069
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/09/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 03/13/2020
Date Made Active in Reports: 05/22/2020
Number of Days to Update: 70

Source: Department of Health & Environmental Control
Telephone: 803-896-8985
Last EDR Contact: 08/30/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/20/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

ALLSITES: Site Assessment & Remediation Public Record Database

The South Carolina Department of Health and Environmental Control is pleased to have the Public Record for your review. The purpose of this database is two-fold. First, it will provide to communities another form of notice of cleanup activity, allowing them to have more information about assessment and cleanup activities in their area and in the State. Second, it can assist those seeking to redevelop brownfield properties within South Carolina.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/08/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 79

Source: Department of Health & Environmental Control
Telephone: 803-896-4000
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

CDL 2: Clandestine Drug Lab Listing

A listing of clandestine drug lab site locations.

Date of Government Version: 08/26/2022
Date Data Arrived at EDR: 08/29/2022
Date Made Active in Reports: 09/22/2022
Number of Days to Update: 24

Source: South Carolina Law Enforcement Division
Telephone: 803-896-7136
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

CDL: Clandestine Drug Lab Sites

A listing of clandestine drug lab site locations.

Date of Government Version: 01/24/2012
Date Data Arrived at EDR: 01/26/2012
Date Made Active in Reports: 02/24/2012
Number of Days to Update: 29

Source: Department of Health & Environmental Control
Telephone: 803-896-4288
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 11

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

SPILLS: Spill List

Spills and releases of petroleum and hazardous chemicals reported to the Oil & Chemical Emergency Response division.

Date of Government Version: 05/26/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 05/27/2022
Number of Days to Update: 1

Source: Department of Health and Environmental Control
Telephone: 803-898-4111
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/25/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/26/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: (404) 562-8651
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/11/2022	Telephone: 202-528-4285
Date Made Active in Reports: 09/30/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021	Source: USGS
Date Data Arrived at EDR: 07/13/2021	Telephone: 888-275-8747
Date Made Active in Reports: 03/09/2022	Last EDR Contact: 10/13/2022
Number of Days to Update: 239	Next Scheduled EDR Contact: 01/23/2023
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 10/03/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 11/03/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/20/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 202-566-1917
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 09/20/2022
Number of Days to Update: 71	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 10/28/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 10/28/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 09/12/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 12/26/2022
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 11/01/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022	Source: EPA
Date Data Arrived at EDR: 07/18/2022	Telephone: 202-564-4203
Date Made Active in Reports: 07/29/2022	Last EDR Contact: 10/18/2022
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 703-416-0223
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/04/2022	Telephone: 202-564-8600
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 10/27/2022
Number of Days to Update: 6	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 202-564-6023
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 10/06/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 09/27/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/10/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 06/14/2022	Telephone: 301-415-7169
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 10/11/2022
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 08/25/2022
Number of Days to Update: 251	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 11/03/2022
Number of Days to Update: 96	Next Scheduled EDR Contact: 02/13/2023
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 09/21/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 01/10/2023
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/24/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2022
Date Data Arrived at EDR: 07/21/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 71

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 10/27/2022
Next Scheduled EDR Contact: 02/16/2023
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/26/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/02/2022	Telephone: 703-603-8787
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/09/2023
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 08/17/2022	Telephone: 303-231-5959
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 08/01/2022	Source: DOL, Mine Safety & Health Admi
Date Data Arrived at EDR: 08/02/2022	Telephone: 202-693-9424
Date Made Active in Reports: 09/30/2022	Last EDR Contact: 10/04/2022
Number of Days to Update: 59	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020	Source: USGS
Date Data Arrived at EDR: 05/27/2020	Telephone: 703-648-7709
Date Made Active in Reports: 08/13/2020	Last EDR Contact: 08/17/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/17/2022
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/14/2022	Source: Department of Interior
Date Data Arrived at EDR: 06/15/2022	Telephone: 202-208-2609
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/13/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/03/2022	Source: EPA
Date Data Arrived at EDR: 08/25/2022	Telephone: (404) 562-9900
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/25/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2022	Telephone: 202-564-2280
Date Made Active in Reports: 09/30/2022	Last EDR Contact: 09/30/2022
Number of Days to Update: 91	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/22/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility Listing

A listing of permitted air facilities.

Date of Government Version: 05/24/2022
Date Data Arrived at EDR: 05/25/2022
Date Made Active in Reports: 08/12/2022
Number of Days to Update: 79

Source: Department of Health & Environmental Control
Telephone: 803-898-4279
Last EDR Contact: 08/22/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

Asbestos abatement & demolition project list

Date of Government Version: 10/17/2022
Date Data Arrived at EDR: 10/18/2022
Date Made Active in Reports: 11/03/2022
Number of Days to Update: 16

Source: Department of Health & Environmental Control
Telephone: 803-898-3882
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of sites with coal ash ponds.

Date of Government Version: 03/20/2018
Date Data Arrived at EDR: 03/22/2018
Date Made Active in Reports: 04/25/2018
Number of Days to Update: 34

Source: Department of Health & Environmental Control
Telephone: 803-898-3964
Last EDR Contact: 09/08/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Database

The Drycleaning Facility Restoration Trust Fund database is used to access, prioritize and cleanup contaminated registered drycleaning sites.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 04/27/2022
Date Made Active in Reports: 07/18/2022
Number of Days to Update: 82

Source: Department of Health & Environmental Control
Telephone: 803-898-3882
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Annually

DRAFT

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/22/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 06/23/2022	Telephone: 803-896-4067
Date Made Active in Reports: 09/12/2022	Last EDR Contact: 08/30/2022
Number of Days to Update: 81	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

Hazardous waste financial assurance information.

Date of Government Version: 08/01/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 08/02/2022	Telephone: 803-898-3880
Date Made Active in Reports: 08/25/2022	Last EDR Contact: 07/20/2022
Number of Days to Update: 23	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

UST financial assurance information.

Date of Government Version: 01/07/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 01/07/2022	Telephone: 803-898-3880
Date Made Active in Reports: 03/23/2022	Last EDR Contact: 09/28/2022
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Varies

GWCI: Groundwater Contamination Inventory

An inventory of all groundwater contamination cases in the state.

Date of Government Version: 07/01/2008	Source: Department of Health and Environmental Control
Date Data Arrived at EDR: 11/06/2008	Telephone: 803-898-3798
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 09/13/2022
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Annually

NPDES: Waste Water Treatment Facilities Listing

A listing of waste water treatment facility locations.

Date of Government Version: 07/27/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 07/27/2022	Telephone: 803-898-4300
Date Made Active in Reports: 10/13/2022	Last EDR Contact: 10/11/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

UIC: Underground Injection Wells Listing

A listing of underground injection wells locations.

Date of Government Version: 07/27/2022	Source: Department of Health & Environmental Control
Date Data Arrived at EDR: 07/27/2022	Telephone: 803-898-3799
Date Made Active in Reports: 08/01/2022	Last EDR Contact: 10/20/2022
Number of Days to Update: 5	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018	Source: USGS
Date Data Arrived at EDR: 10/21/2019	Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 08/17/2022
Number of Days to Update: 3	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MANIFEST: Hazardous Waste Manifest Data

A generator who transports, or offers for transportation, hazardous waste for off-site treatment, storage or disposal must prepare a hazardous waste manifest to accompany such shipment.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 05/02/2022
Number of Days to Update: 88

Source: Department of Health & Environmental Control
Telephone: 803-898-3796
Last EDR Contact: 10/27/2022
Next Scheduled EDR Contact: 02/16/2023
Data Release Frequency: Annually

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environmental Control in South Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Health and Environmental Control
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environmental Control in South Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Health and Environmental Control
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environmental Control in South Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Health and Environmental Control
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/08/2022	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/08/2022	Telephone: 860-424-3375
Date Made Active in Reports: 10/21/2022	Last EDR Contact: 08/08/2022
Number of Days to Update: 74	Next Scheduled EDR Contact: 11/21/2022
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 10/03/2022
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2021	Telephone: 518-402-8651
Date Made Active in Reports: 01/19/2022	Last EDR Contact: 10/28/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2019	Telephone: 717-783-8990
Date Made Active in Reports: 09/10/2019	Last EDR Contact: 10/05/2022
Number of Days to Update: 53	Next Scheduled EDR Contact: 01/23/2023
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020	Source: Department of Environmental Management
Date Data Arrived at EDR: 11/30/2021	Telephone: 401-222-2797
Date Made Active in Reports: 02/18/2022	Last EDR Contact: 08/10/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/19/2019	Telephone: N/A
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 08/29/2022
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Day Care List

Source: Department of Social Services

Telephone: 803-898-7345

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 803-734-9494

DRAFT

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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DRAFT

GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

I-95 EXTENDED STUDY AREA
I-95
BOWMAN, SC 29018

TARGET PROPERTY COORDINATES

Latitude (North):	33.30132 - 33° 18' 4.75"
Longitude (West):	80.555895 - 80° 33' 21.22"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	541345.9
UTM Y (Meters):	3684588.0
Elevation:	102 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	15605246 WADBOO SWAMP, SC
Version Date:	2020

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

DRAFT

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

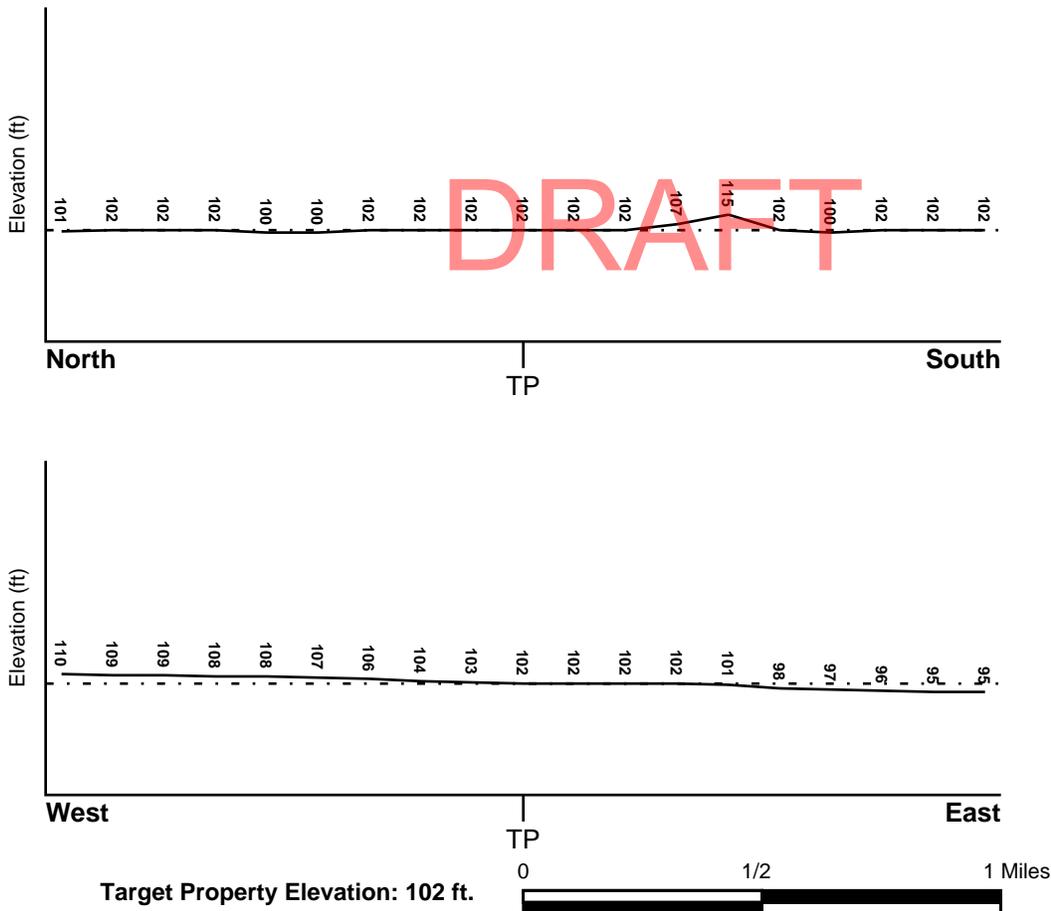
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property FEMA Source Type

Not Reported

Additional Panels in search area: FEMA Source Type

45075C0630C	FEMA FIRM Flood data
45075C0635C	FEMA FIRM Flood data
45075C0640C	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
WADBOO SWAMP	<u>Data Coverage</u>
	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Cenozoic
System: Tertiary
Series: Eocene Claiborne Group
Code: Te2 (*decoded above as Era, System & Series*)

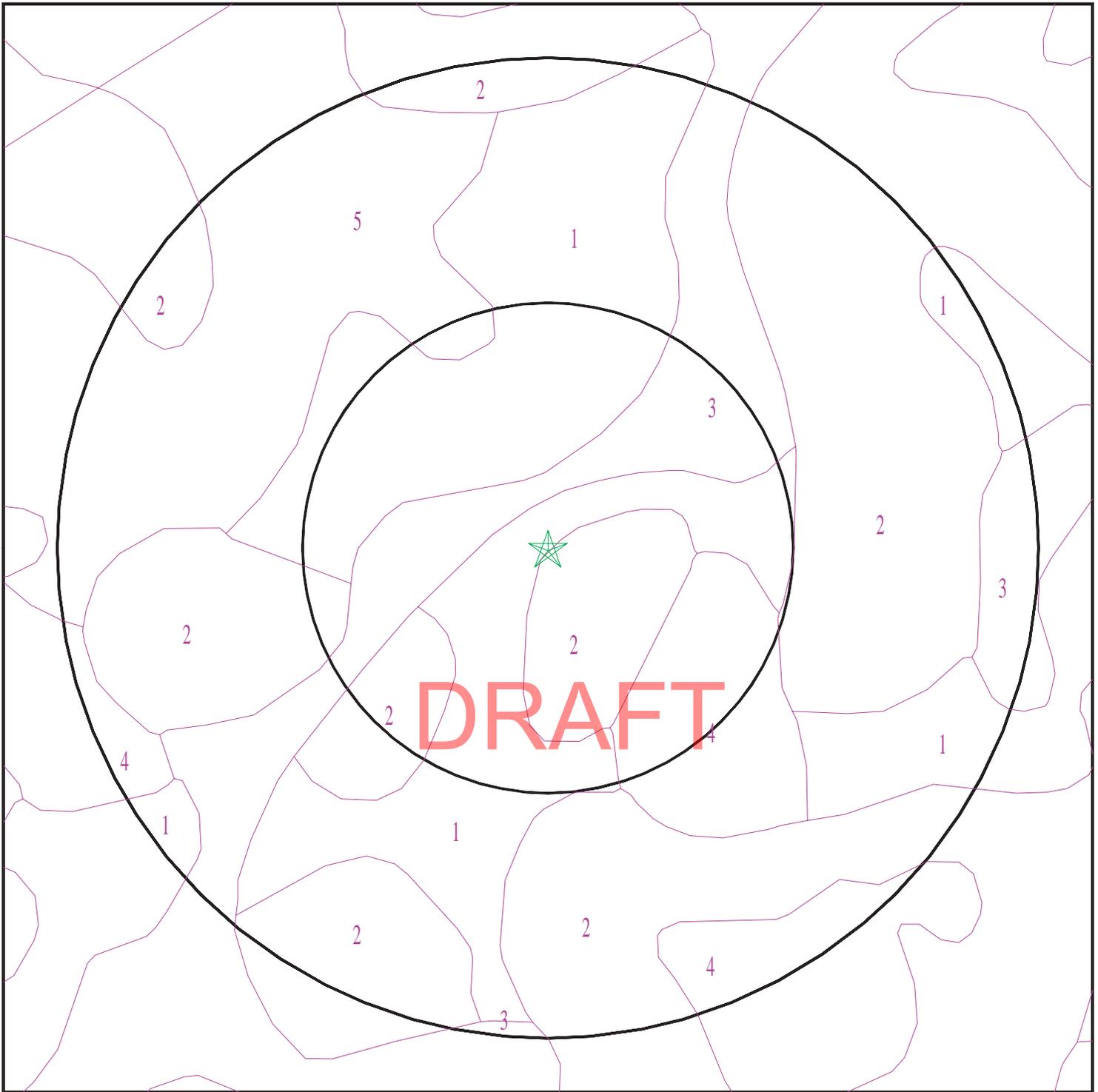
GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DRAFT

SSURGO SOIL MAP - 7172876.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: I-95 Extended Study Area
ADDRESS: I-95
Bowman SC 29018
LAT/LONG: 33.30132 / 80.555895

CLIENT: ARM Environmental Services
CONTACT: Richard Ciccolella
INQUIRY #: 7172876.2s
DATE: November 08, 2022 3:48 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: LYNCHBURG

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
2	7 inches	79 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Map ID: 2

Soil Component Name: GOLDSBORO

Soil Surface Texture:
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches		Not reported	Not reported	Max: Min:	Max: Min:
2	14 inches	61 inches		Not reported	Not reported	Max: Min:	Max: Min:
3	61 inches	79 inches		Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: RAINS

Soil Surface Texture:
Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

DRAFT

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
2	9 inches	42 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
3	42 inches	55 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	55 inches	79 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: PANTEGO

Soil Surface Texture:
Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	74 inches	78 inches		Not reported	Not reported	Max: 42 Min: 4	Max: 6 Min: 3.6
2	18 inches	74 inches	sandy clay loam	Not reported	Not reported	Max: 42 Min: 4	Max: 6 Min: 3.6
3	0 inches	18 inches		Not reported	Not reported	Max: 42 Min: 4	Max: 6 Min: 3.6

Soil Map ID: 5

Soil Component Name: COXVILLE

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 5.5 Min: 3.6
2	11 inches	79 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 5.5 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

DRAFT

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

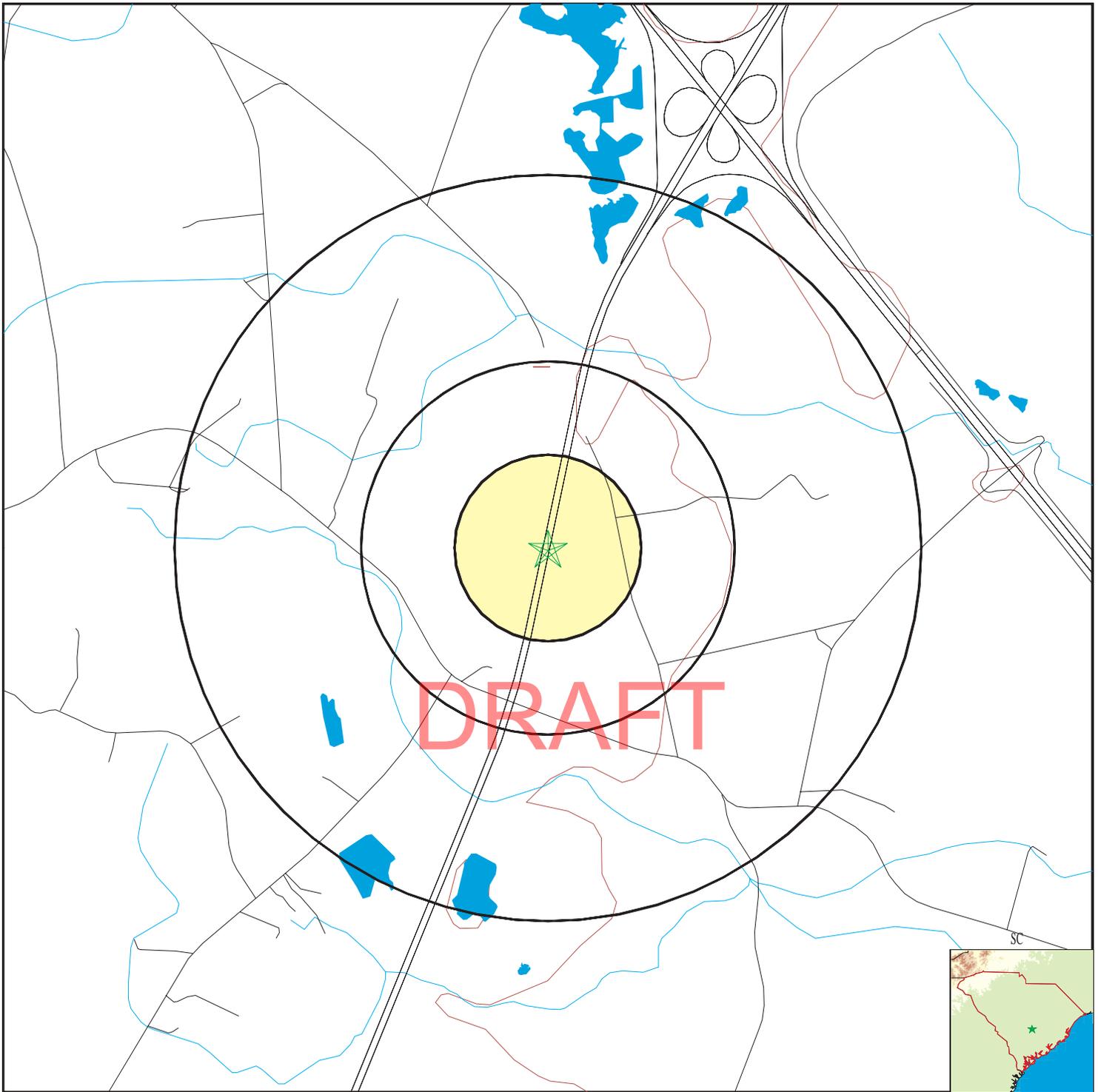
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

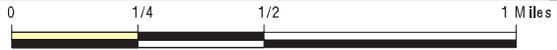
STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 7172876.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



SITE NAME: I-95 Extended Study Area
 ADDRESS: I-95
 Bowman SC 29018
 LAT/LONG: 33.30132 / 80.555895

CLIENT: ARM Environmental Services
 CONTACT: Richard Ciccolella
 INQUIRY #: 7172876.2s
 DATE: November 08, 2022 3:48 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: SC Radon

Radon Test Results

Zipcode	Average	Num Tests	Minimum	Maximum	% > 4 pCi/L
29018	0.5	2	0.3	0.7	0.0

Federal EPA Radon Zone for DORCHESTER County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 29018

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	-0.033 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

DRAFT

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 803-734-9494

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

South Carolina Water Well Database

Source: Department of Natural Resources

Telephone: 803-734-6440

Water wells in the Coastal Plain counties of South Carolina.

Water Well Database

Source: Department of Natural Resources

Telephone: 864-654-1671

A listing of water wells in the Piedmont (upstate) counties.

OTHER STATE DATABASE INFORMATION

RADON

State Database: SC Radon

Source: Department of Health & Environmental Control

Telephone: 864-241-1090

Radon Test Results by Zip Code

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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DRAFT

17.6 Interview Documentation

DRAFT



Date: 9-28-22

Person Spoken To: Greg Cassidy, DHEC

RE: Whetsell Farm Road site

Notes:

I had received DHEC file information for the Whetsell Farm Road site, but there was not a location map in the file.

Called Greg to discuss. He recalled the site and the general details about pesticide and other material removal activities. There was shallow soil contamination that was cleaned up and the waste materials were removed for offsite disposal.

He pulled up a google map while I was looking at google earth. He described to me where the site was. It was closer to Duncan Chapel Road and west of Jacques Hog House Road, fairly well removed from the corridor.

He said the site was remediated.

DRAFT

17.7 Special Contractual Conditions Between User and Environmental Professional

DRAFT

17.8 Qualifications of the Environmental Professional(s)

DRAFT

RICHARD CICCOLELLA PROJECT MANAGER

Mr. Ciccolella is a Biologist with experience in the environmental field since 1993. He has extensive experience in a variety of environmental areas including wetland delineation, biological assessments, Phase I and Phase II Environmental Site Assessments, NEPA Environmental Assessments, and soil and ground water assessments with respect to leaking underground storage tanks and/or other sources of potential subsurface contamination.

EDUCATION

B.S., Biology - Auburn University (1993)

CERTIFICATIONS

Niton XRF Lead Analyzer Manufacturer's Training Course

Lead Awareness Training Certificate

Wetland Delineation – Richard Chinn Environmental Training, Inc.

SPECIALIZED TRAINING

Environmental Site Assessments, Phase I and Phase II

Wetland Delineation

Biology / Ecology

Ecological Modeling

Environmental Assessment

DRAFT

PROFESSIONAL EXPERIENCE

1993 to Present: ARM Environmental Services, Inc. - Columbia, South Carolina

Mr. Ciccolella joined ARM in 1993 as a staff scientist. His responsibilities include Phase I and Phase II Environmental Site Assessments, highway corridor assessments for hazardous materials or waste sites, soil and ground water assessments, preparation of environmental assessment documentation pursuant to the National Environmental Policy Act (NEPA), wetland delineation, and biological assessments.

PROJECT EXPERIENCE

Environmental Site Assessments

Mr. Ciccolella has been the principal investigator for numerous Phase I Environmental Site Assessments (ESAs). Assessments have been conducted on a wide range of sites including vacant property, industrial facilities, potential SCDOT rights-of-way, and retail service station properties. Typical clientele has included highway design firms, lending institutions, law firms, real estate brokers, and individual clients.

Subsurface Assessments

Mr. Ciccolella has been involved with the assessment of numerous sites where the subsurface soils and/or ground water have been impacted from leaking underground storage tanks or other sources. His responsibilities on these projects have included the completion of numerous ground water quality assessments designed to characterize the subsurface contamination, determine the primary direction of ground water flow and aquifer characteristics, identify and evaluate potential exposure pathways, and model the fate and transport of the contaminated ground water plumes. His project experience includes numerous assessments conducted pursuant to South Carolina Department of Health and Environmental Control (DHEC) guidelines for assessment of petroleum underground storage tank (UST) releases. Other subsurface assessment work has included the completion of numerous Phase II Soil and/or Ground Water Quality Assessments for commercial real estate transactions and SCDOT right of way acquisitions.

Highway Corridor Assessments

Mr. Ciccolella has also been involved in numerous Highway Corridor Assessments. These Corridor Assessments have been conducted to evaluate the presence, or likely, presence, of hazardous waste or materials that may pose a threat of contamination to the potential highway corridor. Corridor Assessments typically include a site reconnaissance of the corridor area, a review of available regulatory information for sites that potentially are a source of contamination to the corridor, discussions with regulatory personnel regarding specific sites of concern, and the generation of a report summarizing the findings and providing specific recommendations. Typical clientele has included highway design firms involved in the preparation of environmental impact studies conducted pursuant to NEPA.

Environmental Assessment

Mr. Ciccolella was the principal author of the NEPA Environmental Assessment (EA) conducted for the proposed construction of a Ready Building for the 43rd Weapons of Mass Destruction – Civil Support Team of the South Carolina Army National Guard. The EA included an alternatives analysis of a variety of potential environmental impacts including natural resource impacts, cultural resource impacts and community impacts.

Biological Assessments

Mr. Ciccolella has performed numerous wetland delineations throughout South Carolina and has been the principal field technician on a number of wetland assessments, delineation, and wetland mitigation projects. His duties have included wetland delineation and monitoring of environmental conditions at wetland mitigation sites.

RICHARD J. PITTINGER
SENIOR PROJECT MANAGER / PRINCIPAL

Mr. Pittenger is an environmental engineer, and has worked in the environmental field since 1986. He has supervised and conducted a variety of environmental services for public and private clients located across the Southeast. Mr. Pittenger is also a licensed asbestos consultant, with extensive experience in the performance in building inspections for asbestos, lead based paint and radon. Mr. Pittenger's expertise is in Project Management, primarily in the areas of environmental assessments, site remediation and regulatory compliance.

EDUCATION

B.S., Engineering Technology, Louisiana State University, 1985

CERTIFICATIONS

OSHA Hazardous Waste Operation and Emergency Response
SCDHEC Licensed Asbestos Consultant/Management Planner

SPECIALIZED TRAINING

Environmental Site Assessor, Phase I and Phase II
Asbestos Abatement Supervision, Management Planning, and Building Inspection
Underground Storage Tank Management
Lead Based Paint – Inspection and Abatement Supervision

PROFESSIONAL EXPERIENCE

1991 to Present: ARM Environmental Services, Inc. - Columbia, South Carolina

Mr. Pittenger joined ARM in 1991 as Vice-President and Director of Environmental Assessment Services. He is responsible for project development, technical oversight and quality control.

1989 to 1991: Professional Service Industries, Inc. - Columbia, South Carolina

Mr. Pittenger was employed as Division Manager of the Columbia Environmental Services Division of PSI. His responsibilities included marketing, project development and division administration. While at PSI, Mr. Pittenger was also project manager for SCDOT Phase I and Phase II corridor assessment projects.

1986 to 1989: Environmental Technology Engineering, Inc. - Lexington, South Carolina

Mr. Pittenger served as staff engineer on a variety of projects, ranging from groundwater investigations to hazardous waste disposal facilities.

Attachment 4

Asbestos and Lead-based Paint Surveys

I-95 Northbound Bridge Over I-26
Orangeburg County, South Carolina

Asbestos and Lead-Based Paint
Survey Report

Structure # 381009510100
ARM Project #16-318-22

October 14, 2022

Prepared For:

Civil Engineering Consulting Services, Inc.
2000 Park Street, Suite 201
Columbia, South Carolina, 29201

- DRAFT**
- Yes, Asbestos was found
 - No, Asbestos was not found
 - Yes, Lead-Based Paint was found
 - No, Lead-Based Paint was not found

Report Compiled By:

Robbie Robertson

Robbie Robertson
ASBESTOS CONSULTANT/
BUILDING INSPECTOR
SCDHEC LICENSE #BI-01179

Report Reviewed By:

Sid Havird

Sid Havird
ASBESTOS CONSULTANT/
BUILDING INSPECTOR
SCDHEC LICENSE #BI-00258



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XRF Data	Appendix D
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ASBESTOS AND LEAD-BASED PAINT SURVEY

On September 15, 2022, ARM Environmental Services, Inc. performed an asbestos and lead-based paint survey at the I-95 northbound bridge over I-26 in Orangeburg County, South Carolina. The I-95 northbound bridge is located over I-26 (eastbound and westbound lanes) as shown in Appendix A, Figure 1. The site consists of a highway bridge and can be identified by bridge structure number 381009510100. The asbestos survey has been conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines, as required by the Environmental Protection Agency (EPA) and the South Carolina Department of Health and Environmental Control (DHEC) prior to renovation or demolition of public or commercial structures. The lead-based paint survey was performed to identify lead-based paint (LBP) on the bridge.

BRIDGE MATERIALS

No construction records were available to determine the building materials used in construction of the structure. All accessible structural components including columns, piers, pier caps, bridge decks, beams, bridge shoes, end bents, railings and buffer materials were examined. Photographs of the site are shown in Appendix E.

The bridge deck of the structure consists of pre-cast concrete deck sections supported by concrete pier caps. The concrete pier caps, which run perpendicular to the bridge deck, are supported by concrete piers. Concrete and galvanized metal guardrails are located on the bridge structure. The bridge structure is estimated to be 315 feet long and 45 feet wide.

ASBESTOS SURVEY

Samples of the suspect materials were collected and submitted for laboratory analysis for Polarized Light Microscopy (PLM). One sample of each material was also collected for transmission electron microscopy (TEM) confirmation analysis in the event that the PLM analysis indicated less than 1 percent asbestos. The sample locations are shown in Appendix A, Figure 2. The results of the laboratory analysis are presented in Table 1 on the following page.

Table 1: Asbestos Sample Analytical Data

Sample Number	Material Description	Material Locations	Friable / Non-friable	Material Condition	Analytical Results*	Approx. Quantity
01-NB, 02-NB, 03-NB	Buffer Material at Steel Bridge Shoes	Between Concrete Pier Caps & Steel Bridge Shoes	Non-friable	Good	No Asbestos Detected	100 Square Feet
04-NB, 05-NB, 06-NB	Expansion Joint	Between Concrete Deck Sections	Non-friable	Good	No Asbestos Detected	225 Linear Feet

Asbestos Content: USEPA and SCDHEC regulations (No. 61-86.1) define asbestos containing material as any material greater than one percent asbestos. OSHA recommends that a negative exposure assessment (NEA) be conducted to establish appropriate personal protection equipment needed (if any) for all persons that might disturb asbestos materials.

Friable: Describes a material which, when dry, can be crumbled, pulverized, or reduced to powder with hand pressure.

The laboratory results are included in Appendix C of this report.

ASBESTOS CONCLUSIONS / RECOMMENDATIONS

An asbestos inspection was performed for a structure, the I-95 northbound bridge over I-26 in Orangeburg County, South Carolina. **The results of the asbestos survey indicate that none of the sampled materials contain asbestos.**

The results of this asbestos survey are limited to the sampled materials, which are considered to be representative of the homogeneous areas from which the samples were collected. **In the event that any suspect asbestos containing materials that were not addressed in this survey are encountered, the materials should be presumed to contain asbestos until laboratory analysis can be conducted.**

LEAD-BASED PAINT SURVEY

ARM personnel conducted a lead-based paint survey of accessible painted bridge materials at the I-95 northbound bridge on September 15, 2022. The LBP inspection was conducted using a Niton XLP-300A X-ray Fluorescence (XRF) Analyzer (Serial #110851) to measure the lead content of surface coatings on representative bridge building components. A homogenous bridge building component is a building material that is uniform in color, texture, and appears identical in every respect. EPA guidelines define lead-based paint as any paint

with equal to or greater than 1.0 milligram of lead per square centimeter of painted surface (mg/cm²) when measured by X-ray Fluorescence. SCDHEC, Health Division defines lead-based paint as a coating containing lead in quantities ≥ 0.7 mg/cm² (SCDHEC, Health Division definition #4-53-1320f). Any coated surfaces meeting or exceeding the SCDHEC limit of 0.7 mg/cm² were considered lead-based paint for the purpose of this assessment since the structure may be slated for renovation or demolition. All waste debris coated with lead-based paint equal to or greater than 0.7mg/cm² must be disposed of in an approved Class II (C&D) or Class III (MSWLF) landfill or approved metal recycler.

The bridge structure is primarily composed of steel and concrete components, with the steel painted gray or white. It appears that this bridge may have been reconditioned at some point and repainted. **While the majority of XRF readings were negative for lead-based paint, there were two readings taken from a steel beam flange on the west underside where lead-paint was detected.** It's likely that this is a small area of remnant paint (approximately 3 square feet) that was missed following the abrasive blasting and repainting of the bridge. The materials sampled for lead-based paint included the steel beams, steel cross bracing, and steel bridge shoes. Results of the XRF analyses are summarized in Table 2 below.

DRAFT

Table 2: Bridge Building Material XRF Summary

Sample Number	Material Description	Material Location	Color	Material Condition	LEAD Content mg/cm ²
Reading 28 & 34	Steel Beams	At Bridge West Underside	White	Peeling	1.30 & 4.00
Reading 29-33	Steel Beams	At Bridge Underside	White	Peeling	Negative
Reading 35-38	Steel Beams	At Bridge Underside	White	Peeling	Negative
Reading 39-47	Cross Bracing	At Bridge Underside	Gray	Peeling	Negative
Reading 48-53	Bridge Shoes	At Bridge Underside	Gray	Intact	Negative
Reading 54-59	Steel Beams	At Bridge Underside	White	Intact	Negative

Lead Content: EPA guidelines define lead-based paint as any paint with equal to or greater than 1.0 milligram of lead per square centimeter of painted surface (mg/cm²) when measured by X-ray Fluorescence. DHEC guidelines define lead-based paint as any paint with equal to or greater than 0.7 mg/cm² when measured by X-ray Fluorescence. The OSHA Lead in Construction Standard, 29 CFR 1926.62 is applied if any lead is present in the sample.

The XRF data results are presented in Appendix D. Photographs of the site are located in Appendix E.

LEAD-BASED PAINT CONCLUSIONS / RECOMMENDATIONS

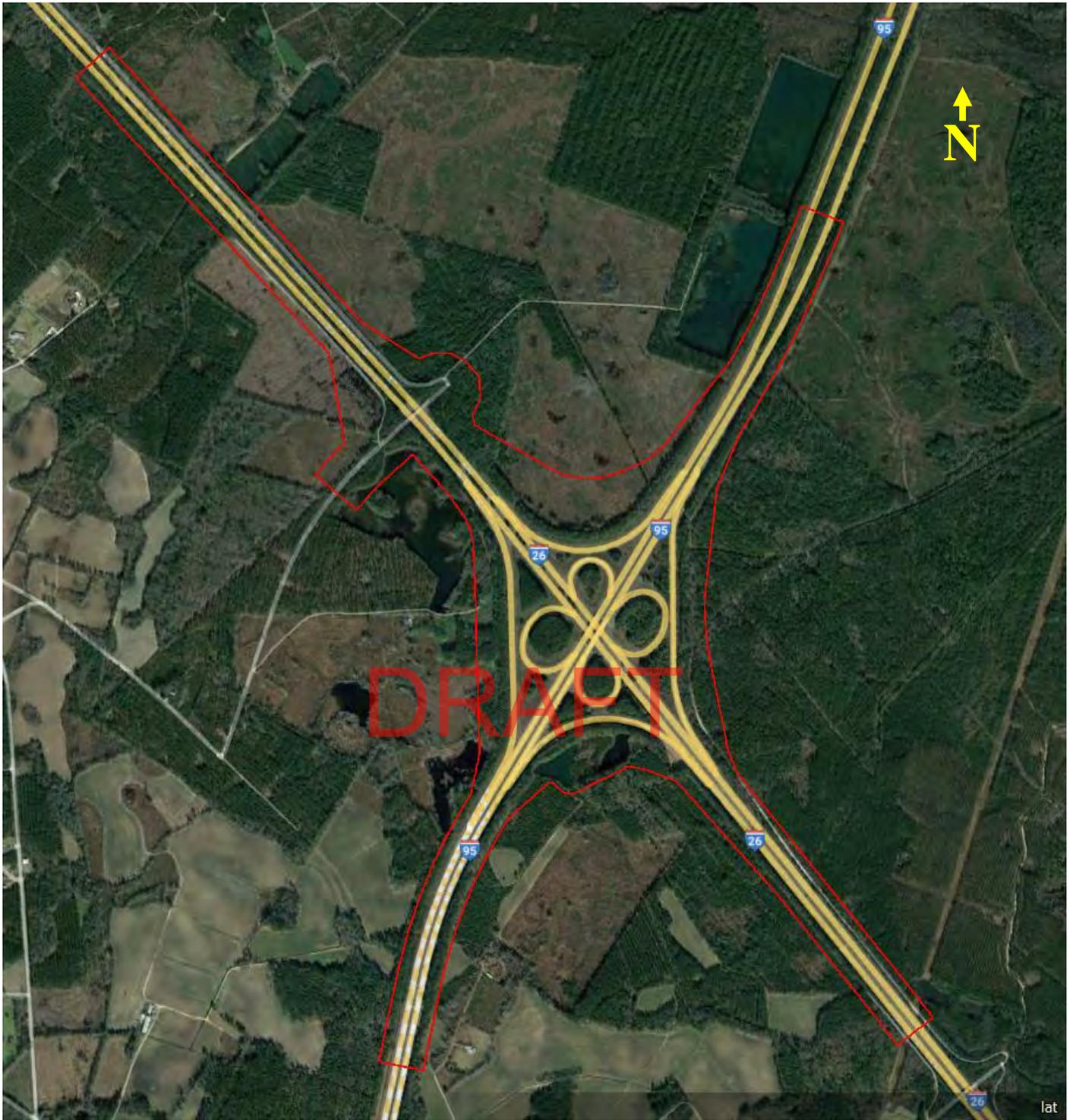
A lead-based paint survey was performed for the I-95 northbound bridge over I-26 in Orangeburg County, South Carolina. **The results of the XRF analyses indicate that readings 28 and 34 (white steel beam flange at bridge's west underside) were positive for lead-based paint.** However, it is likely that the lead-based paint area is a small area (approximately 3 square feet) that was missed during abrasive blasting and repainting of the bridge structure. All other steel bridge components were found not to be coated with lead-based paint. In the event that any suspect painted materials not addressed in this survey are encountered, the materials should be presumed to be coated with lead paint until XRF or laboratory analysis can be conducted.

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APPENDIX A

Figures

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Project

Asbestos & Lead-Based Paint Survey
 I-95 Northbound Bridge Over I-26
 Orangeburg County, South Carolina

Figure 1

Site Plan

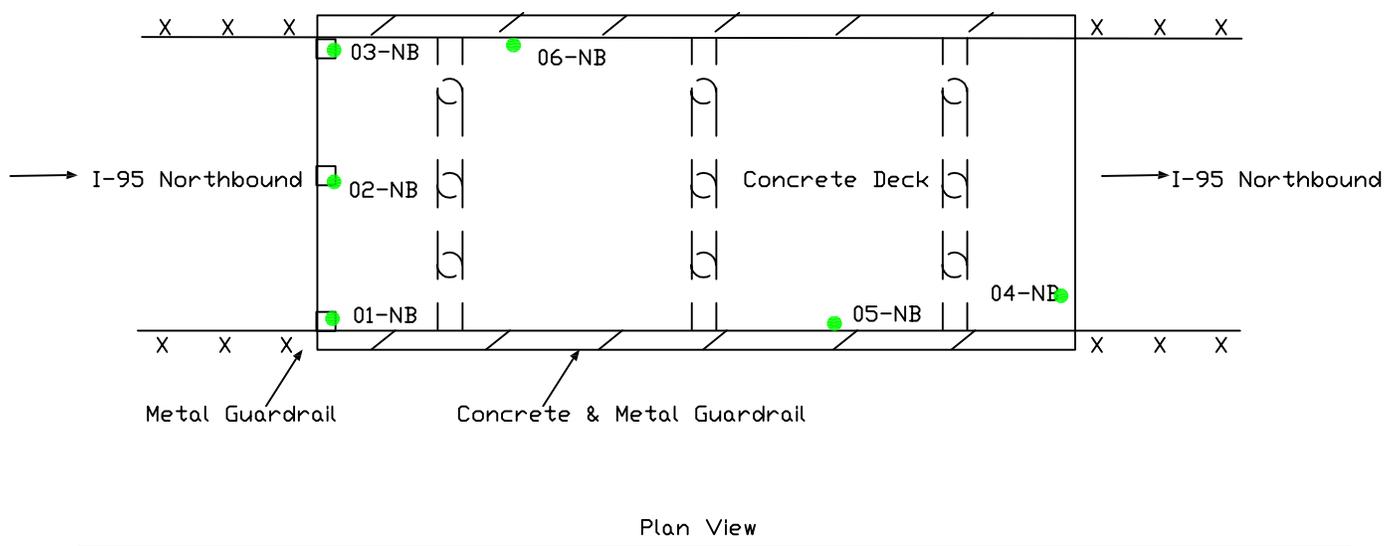
Scale

No Scale

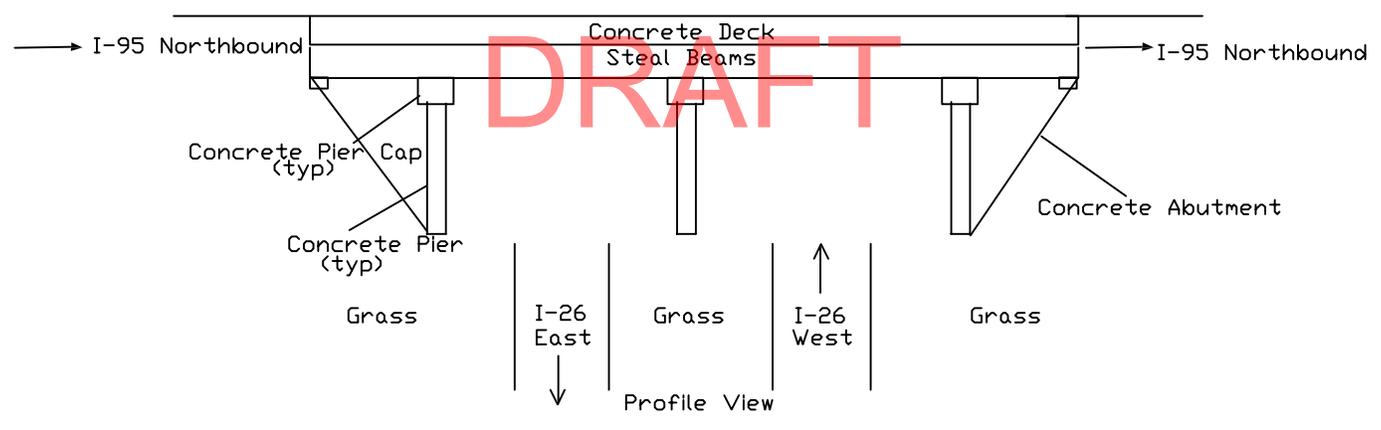
Date

October 2022

ARM ENVIRONMENTAL SERVICES, INC.



Plan View



Profile View

<p><i>PROJECT:</i> Asbestos & Lead Based Paint Survey I-95 Northbound Bridge over I-26 Orangeburg County, South Carolina ARM Project # 16-318-22</p>	<p><i>DESCRIPTION:</i> Site Plan Showing Sample Locations (Map Not To Scale)</p>	<p>FIGURE 2</p> <p><i>DATE:</i> October 2022</p>
	<p><i>REFERENCE:</i> Field Notes</p>	<p><i>LEGEND:</i> Negative Asbestos Sample = ● Positive Asbestos Sample = ▲</p>

APPENDIX B

Licenses / Certifications

DRAFT

SCDHEC ISSUED

Asbestos ID Card

Robbie Robertson



CONSULTBI
SUPERAHERA

BI-01179
SA-01861

Expiration Date:
10/19/22
10/18/22



1416 Chapin Road, Chapin, South Carolina 29036 803-345-3833

Robbie Robertson

SSN xxx-xx-3715

This is to certify that the above named student has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved:

DRAFT

AHERA Asbestos Inspector Refresher

Course Location: Chapin SC

Certificate Number: 20211020Ab301-03

Start Date October 20, 2021

End Date October 20, 2021

Exam Date: October 20, 2021

Expiration Date October 19, 2022

Principal Instructor / Training Administrator - Lee Capell

10/20/2021

Date

Cyril O Havird Jr



CONSULTBI
SUPERAHERA

BI-00258
SA-02162

Expiration Date:
10/19/22
10/18/22

ABS ENVIRONMENTAL

1416 Chapin Road, Chapin, South Carolina 29036 803-345-3833

Sid Havird

SSN xxx-xx-4506

This is to certify that the above named student has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved:

DRAFT

AHERA Asbestos Inspector Refresher

Course Location: Chapin SC

Certificate Number: 20211020Ab301-02

Start Date October 20, 2021

End Date October 20, 2021

Exam Date: October 20, 2021

Expiration Date October 19, 2022

Principal Instructor / Training Administrator - Lee Capell

10/20/2021

Date

APPENDIX C

Lab Results

DRAFT



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

Lab Code: B2212173
Date Received: 09-20-22
Date Analyzed: 09-21-22
Date Reported: 09-21-22

Project: I-95 NB Bridge Over I-26, Orangeburg County.

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Cellulose	Non-Fibrous	Binder	
01-NB Layer 1 B2212173.1	Buffer Material (Coating)	Heterogeneous Gray-Silver Fibrous Bound	<1%	Cellulose	100%	Binder	None Detected
Unable to separate.							
Layer 2 B2212173.1	Buffer Material	Homogeneous Black Non-fibrous Bound			100%	Binder	None Detected
02-NB Layer 1 B2212173.2	Buffer Material (Coating)	Heterogeneous Gray-Silver Fibrous Bound	<1%	Cellulose	100%	Binder	None Detected
Unable to separate.							
Layer 2 B2212173.2	Buffer Material	Homogeneous Black Non-fibrous Bound			100%	Binder	None Detected
03-NB Layer 1 B2212173.3	Buffer Material (Coating)	Heterogeneous Gray-Silver Fibrous Bound	<1%	Cellulose	100%	Binder	None Detected
Unable to separate.							
Layer 2 B2212173.3	Buffer Material	Homogeneous Black Non-fibrous Bound			100%	Binder	None Detected
04-NB B2212173.4	Expansion Joint Material	Homogeneous Light Gray Non-fibrous Bound			100%	Binder	None Detected
05-NB B2212173.5	Expansion Joint Material	Homogeneous Light Gray Non-fibrous Bound			100%	Binder	None Detected
06-NB B2212173.6	Expansion Joint Material	Homogeneous Dark Gray Non-fibrous Bound			100%	Binder	None Detected

DRAFT

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

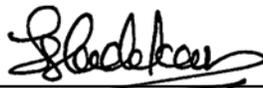
Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

DRAFT

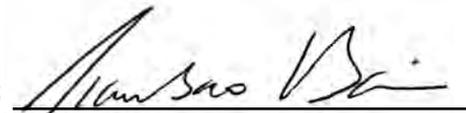
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:


Shilpa Ladekar

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director



September 22, 2022

ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

CLIENT PROJECT: I-95 NB Bridge Over I-26, Orangeburg County.
LAB CODE: T222495

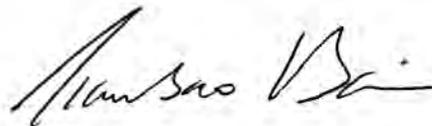
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on September 21, 2022. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

ARM Environmental Services

CLIENT PROJECT: I-95 NB Bridge Over I-26, Orangeburg County.

LAB CODE: T222495

DRAFT

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 09/22/22



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

Lab Code: T222495
Date Received: 09-21-22
Date Analyzed: 09-22-22
Date Reported: 09-22-22

Project: I-95 NB Bridge Over I-26, Orangeburg County.

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
01-NB T48645	Gray-silver Buffer Material (Coating)	0.0479	26.9	31.3	41.8	None Detected
01-NB T48646	Buffer Material	0.1832	65.1	33.3	1.6	None Detected
02-NB T48647	Gray-silver Buffer Material (Coating)	0.0407	21.4	29.5	49.1	None Detected
02-NB T48648	Buffer Material	0.245	67.8	31	1.2	None Detected
03-NB T48649	Gray-silver Buffer Material (Coating)	0.0431	42	30.2	27.8	None Detected
03-NB T48650	Buffer Material	0.2045	67.2	31.8	1	None Detected
04-NB T48651	Light Gray Expansion Material	0.3531	14.5	64.9	20.6	None Detected
05-NB T48652	Light Gray Expansion Material	0.4257	16.6	63.4	20	None Detected
06-NB T48653	Dark Gray Expansion Material	0.4325	24.4	59.9	15.7	None Detected

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

Eurofins CEI recommends between 0.500 and 0.200 grams of sample material. *Any weight below 0.100 grams is considered below protocol guidelines.*

DRAFT

ANALYST: Brunilda Gjoka
Brunilda Gjoka

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS CHAIN OF CUSTODY

6

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code: <u>B2212173 / T222495</u>
CEI Lab I.D Range:

Company Information		Project Information	
CEI Client #		Job Contact: Sid Havird, Robbie Robertson	
Company: ARM Environmental Services		Email: shavird@armenv.com , rrobertson@armenv.com csmith@armenv.com	
Address: 1210 First Street South Extension Columbia, SC 29209		Project Name: I-95 NB Bridge over I-26, Orangeburg County.	
Email: armenv.com		Project ID#:	
Tel: 803-783-3314	Fax: 803-783-2587	PO #:	
		State Samples Collected In: SC	

IF TAT IS NOT MARKED, STANDARD 3 DAY TAT APPLIES

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			

Remarks/Special Instructions: Use positive stop. Run PLM first & if less than 1% run TEM confirmation on all NOB materials.

** Only run TEM if makeup of material requires it.*

Accept Samples

Positive Stop Needed: Yes / No

Date Sample: 9-15-22

Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Robbie Robertson	9-15-22	<i>[Signature]</i>	9-20-22 9:50

Samples will be disposed of 30 days after analysis

SAMPLE ID#	DESCRIPTION	LOCATION	TEST	
			PLM	TEM
01-NB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
02-NB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
03-NB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
04-NB	Expansion Joint material	I-95 SB Bridge over I-26	X	X
05-NB	Expansion Joint material	I-95 SB Bridge over I-26	X	X
06-NB	Expansion Joint material	I-95 SB Bridge over I-26	X	X

APPENDIX D

XRF Data

DRAFT

Index	Time	Type	Sequence	Component	Substrate	Side	Condition	Color	Site	Room	Results	PbC
25	2022-09-15 09:21	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.40
26	2022-09-15 09:22	PAINT	Final			CALIBRATE					Positive	0.90 ± 0.10
27	2022-09-15 09:22	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
28	2022-09-15 09:25	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Positive	4.00 ± 2.40
29	2022-09-15 09:27	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	-0.19 ± 0.88
30	2022-09-15 09:28	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Null	0.50 ± 0.20
31	2022-09-15 09:28	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Null	0.04 ± 0.03
32	2022-09-15 09:29	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.01 ± 0.02
33	2022-09-15 09:29	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Null	0.60 ± 0.20
34	2022-09-15 09:30	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Positive	1.30 ± 0.40
35	2022-09-15 09:31	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.04 ± 0.03
36	2022-09-15 09:32	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Null	0.11 ± 0.06
37	2022-09-15 09:33	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.30 ± 0.19
38	2022-09-15 09:34	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
39	2022-09-15 09:35	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.02 ± 0.07
40	2022-09-15 09:35	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.02 ± 0.08
41	2022-09-15 09:36	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Negative	-0.79 ± 1.48
42	2022-09-15 09:37	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.02 ± 0.07
43	2022-09-15 09:37	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.01 ± 0.08
44	2022-09-15 09:38	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.00 ± 0.03
45	2022-09-15 09:38	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.02 ± 0.05
46	2022-09-15 09:38	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.00 ± 0.03
47	2022-09-15 09:39	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
48	2022-09-15 09:41	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.16 ± 0.06
49	2022-09-15 09:41	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.01 ± 0.02
50	2022-09-15 09:42	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.26 ± 1.02
51	2022-09-15 09:42	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.09 ± 0.10
52	2022-09-15 09:43	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.12 ± 0.06
53	2022-09-15 09:43	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.04 ± 0.02
54	2022-09-15 09:44	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.02 ± 0.03
55	2022-09-15 09:45	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.03 ± 0.03
56	2022-09-15 09:46	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.03 ± 0.04

Index	Time	Type	Sequence	Component	Substrate	Side	Condition	Color	Site	Room	Results	PbC
57	2022-09-15 09:46	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over 126	OUTSIDE	Negative	0.20 ± 0.44
58	2022-09-15 09:46	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over 126	OUTSIDE	Negative	0.04 ± 0.07
59	2022-09-15 09:49	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over 126	OUTSIDE	Negative	0.03 ± 0.02
60	2022-09-15 09:52	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
61	2022-09-15 09:53	PAINT	Final			CALIBRATE					Positive	1.30 ± 0.50
62	2022-09-15 09:53	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.20
63	2022-09-15 09:53	PAINT	Final			CALIBRATE					Positive	1.30 ± 0.50
64	2022-09-15 09:53	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
65	2022-09-15 09:54	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.40
66	2022-09-15 09:54	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.30

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APPENDIX E

Photos

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Photograph 1

A view of the I-95 northbound bridge over I-26 in Orangeburg County where an Asbestos and Lead-Based Paint Survey was performed by ARM Environmental.

DRAFT



Photograph 2

A view of the underside of the I-95 northbound bridge over I-26 in Orangeburg County.



Photograph 3

A view from the top of the I-95 northbound bridge over I-26 in Orangeburg County where an Asbestos and Lead-Based Paint Survey was performed by ARM Environmental.

DRAFT



Photograph 4

Lead-based paint was detected in two (2) of the XRF readings at the beam flange on the west underside of the I-95 northbound bridge over I-26 in Orangeburg County.

I-95 Southbound Bridge Over I-26
Orangeburg County, South Carolina

Asbestos and Lead-Based Paint
Survey Report

Structure # 381009530100
ARM Project #16-318-22

October 14, 2022

Prepared For:

Civil Engineering Consulting Services, Inc.
2000 Park Street, Suite 201
Columbia, South Carolina, 29201

- DRAFT**
- Yes, Asbestos was found
 - No, Asbestos was not found
 - Yes, Lead-Based Paint was found
 - No, Lead-Based Paint was not found

Report Compiled By:

Robbie Robertson

Robbie Robertson
ASBESTOS CONSULTANT/
BUILDING INSPECTOR
SCDHEC LICENSE #BI-01179

Report Reviewed By:

Sid Havird

Sid Havird
ASBESTOS CONSULTANT/
BUILDING INSPECTOR
SCDHEC LICENSE #BI-00258



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Inspectors Licenses & Certifications.....	Appendix B
Laboratory Results	Appendix C
XRF Data	Appendix D
Photographs	Appendix E

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ASBESTOS AND LEAD-BASED PAINT SURVEY

On September 15, 2022, ARM Environmental Services, Inc. performed an asbestos and lead-based paint survey at the I-95 southbound bridge over I-26 in Orangeburg County, South Carolina. The I-95 southbound bridge is located over I-26 (eastbound and westbound lanes) as shown in Appendix A, Figure 1. The site consists of a highway bridge and can be identified by bridge structure number 381009530100. The asbestos survey has been conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines, as required by the Environmental Protection Agency (EPA) and the South Carolina Department of Health and Environmental Control (DHEC) prior to renovation or demolition of public or commercial structures. The lead-based paint survey was performed to identify lead-based paint (LBP) on the bridge.

BRIDGE MATERIALS

No construction records were available to determine the building materials used in construction of the structure. All accessible structural components including columns, piers, pier caps, bridge decks, beams, bridge shoes, end bents, railings and buffer materials were examined. Photographs of the site are shown in Appendix E.

The bridge deck of the structure consists of pre-cast concrete deck sections supported by concrete pier caps. The concrete pier caps, which run perpendicular to the bridge deck, are supported by concrete piers. Concrete and galvanized metal guardrails are located on the bridge structure. The bridge structure is estimated to be 315 feet long and 45 feet wide.

ASBESTOS SURVEY

Samples of the suspect materials were collected and submitted for laboratory analysis for Polarized Light Microscopy (PLM). One sample of each material was also collected for transmission electron microscopy (TEM) confirmation analysis in the event that the PLM analysis indicated less than 1 percent asbestos. The sample locations are shown in Appendix A, Figure 2. The results of the laboratory analysis are presented in Table 1 on the following page.

Table 1: Asbestos Sample Analytical Data

Sample Number	Material Description	Material Locations	Friable / Non-friable	Material Condition	Analytical Results*	Approx. Quantity
01-SB, 02-SB, 03-SB	Buffer Material at Steel Bridge Shoes	Between Concrete Pier Caps & Steel Bridge Shoes	Non-friable	Good	No Asbestos Detected	100 Square Feet
04-SB, 05-SB, 06-SB	Expansion Joint	Between Concrete Deck Sections	Non-friable	Good	No Asbestos Detected	225 Linear Feet

Asbestos Content: USEPA and SCDHEC regulations (No. 61-86.1) define asbestos containing material as any material greater than one percent asbestos. OSHA recommends that a negative exposure assessment (NEA) be conducted to establish appropriate personal protection equipment needed (if any) for all persons that might disturb asbestos materials.

Friable: Describes a material which, when dry, can be crumbled, pulverized, or reduced to powder with hand pressure.

The laboratory results are included in Appendix C of this report.

ASBESTOS CONCLUSIONS / RECOMMENDATIONS

An asbestos inspection was performed for a structure, the I-95 southbound bridge over I-26 in Orangeburg County, South Carolina. **The results of the asbestos survey indicate that none of the sampled materials contain asbestos.**

The results of this asbestos survey are limited to the sampled materials, which are considered to be representative of the homogeneous areas from which the samples were collected. **In the event that any suspect asbestos containing materials that were not addressed in this survey are encountered, the materials should be presumed to contain asbestos until laboratory analysis can be conducted.**

LEAD-BASED PAINT SURVEY

ARM personnel conducted a lead-based paint survey of accessible painted bridge materials at the I-95 southbound bridge on September 15, 2022. The LBP inspection was conducted using a Niton XLP-300A X-ray Fluorescence (XRF) Analyzer (Serial #110851) to measure the lead content of surface coatings on representative bridge building components. A homogenous bridge building component is a building material that is uniform in color, texture, and appears

identical in every respect. EPA guidelines define lead-based paint as any paint with equal to or greater than 1.0 milligram of lead per square centimeter of painted surface (mg/cm²) when measured by X-ray Fluorescence. SCDHEC, Health Division defines lead-based paint as a coating containing lead in quantities ≥ 0.7 mg/cm² (SCDHEC, Health Division definition #4-53-1320f). Any coated surfaces meeting or exceeding the SCDHEC limit of 0.7 mg/cm² were considered lead-based paint for the purpose of this assessment since the structure may be slated for renovation or demolition. All waste debris coated with lead-based paint equal to or greater than 0.7mg/cm² must be disposed of in an approved Class II (C&D) or Class III (MSWLF) landfill or approved metal recycler.

The bridge structure is primarily composed of steel and concrete components, with the steel painted gray or white. It appears that this bridge may have been reconditioned at some point and repainted. The materials sampled for lead-based paint included the steel beams, steel cross bracing, and steel bridge shoes. **The results of the XRF analyses indicate that the sampled materials do not contain lead-based paint** as summarized in Table 2 below.

Table 2: Bridge Building Material XRF Summary

Sample Number	Material Description	Material Location	Color	Material Condition	LEAD Content mg/cm ²
Reading 5-7	Steel Beams	At Bridge Underside	White	Good	Negative
Reading 8-10	Steel Cross Bracing	At Bridge Underside	Gray	Good	Negative
Reading 11-12	Steel Beams	At Bridge Underside	Gray	Good	Negative
Reading 13-18	Steel Bridge Shoes	At Bridge Underside	Gray	Good	Negative

Lead Content: EPA guidelines define lead-based paint as any paint with equal to or greater than 1.0 milligram of lead per square centimeter of painted surface (mg/cm²) when measured by X-ray Fluorescence. DHEC guidelines define lead-based paint as any paint with equal to or greater than 0.7 mg/cm² when measured by X-ray Fluorescence. The OSHA Lead in Construction Standard, 29 CFR 1926.62 is applied if any lead is present in the sample.

The XRF data results are presented in Appendix D. Photographs of the site are located in Appendix E.

LEAD-BASED PAINT CONCLUSIONS / RECOMMENDATIONS

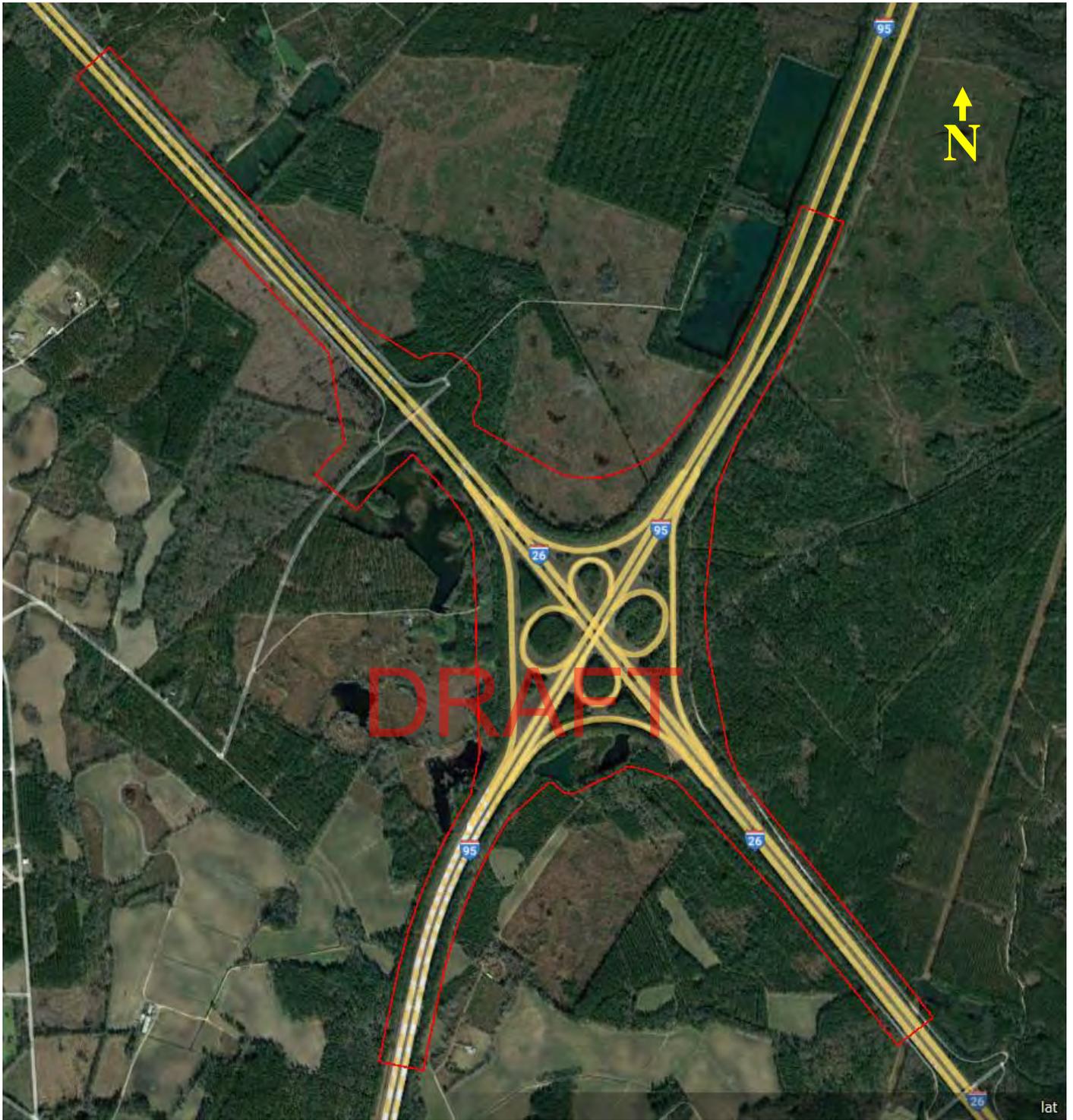
A lead-based paint survey was performed for the I-95 southbound bridge over I-26 in Orangeburg County, South Carolina. **The results of the XRF analyses indicate that the sampled materials do not contain lead-based paint.** In the event that any suspect painted materials not addressed in this survey are encountered, the materials should be presumed to be coated with lead paint until XRF or laboratory analysis can be conducted.

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APPENDIX A

Figures

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Project

Asbestos & Lead-Based Paint Survey
 I-95 Southbound Bridge Over I-26
 Orangeburg County, South Carolina

Figure 1

Site Plan

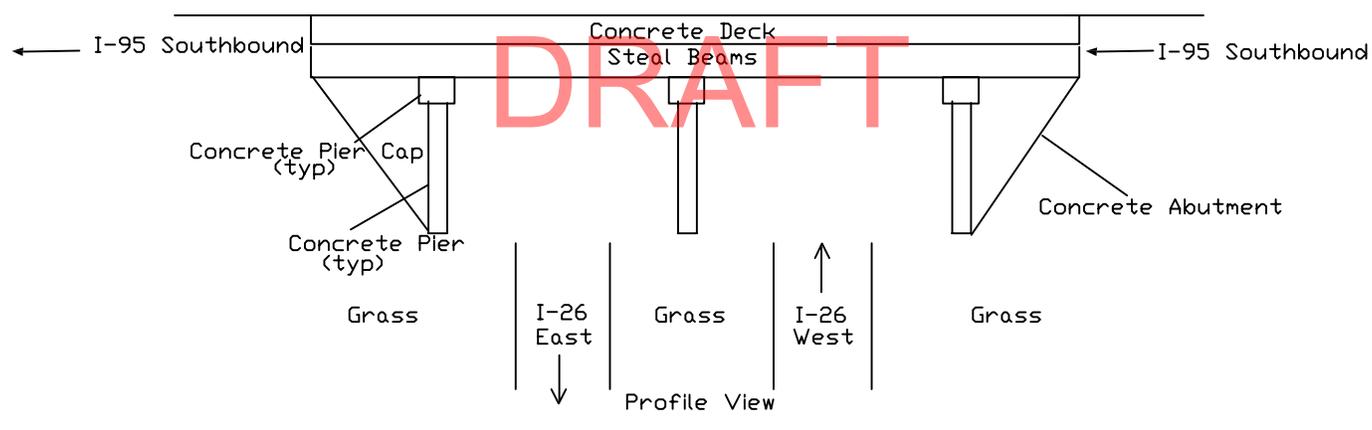
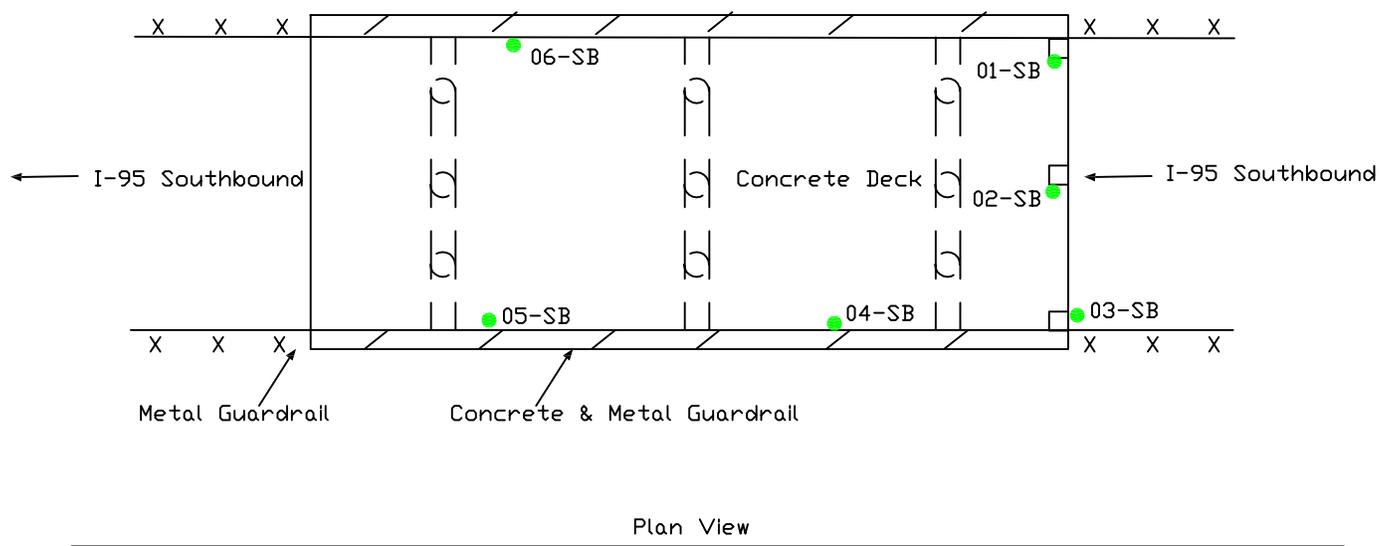
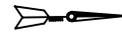
Scale

No Scale

Date

October 2022

ARM ENVIRONMENTAL SERVICES, INC.



<p><i>PROJECT:</i> Asbestos & Lead Based Paint Survey I-95 Southbound Bridge over I-26 Orangeburg County, South Carolina ARM Project # 16-318-22</p>	<p><i>DESCRIPTION:</i> Site Plan Showing Sample Locations (Map Not To Scale)</p>	<p>FIGURE 2</p> <p><i>DATE:</i> October 2022</p>
	<p><i>REFERENCE:</i> Field Notes</p>	<p><i>LEGEND:</i> Negative Asbestos Sample = ● Positive Asbestos Sample = ▲</p>

APPENDIX B

Licenses / Certifications

DRAFT

SCDHEC ISSUED

Asbestos ID Card

Robbie Robertson



CONSULTBI
SUPERAHERA

BI-01179
SA-01861

Expiration Date:
10/19/22
10/18/22



1416 Chapin Road, Chapin, South Carolina 29036 803-345-3833

Robbie Robertson

SSN xxx-xx-3715

This is to certify that the above named student has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved:

DRAFT

AHERA Asbestos Inspector Refresher

Course Location: Chapin SC

Certificate Number: 20211020Ab301-03

Start Date October 20, 2021

End Date October 20, 2021

Exam Date: October 20, 2021

Expiration Date October 19, 2022

Principal Instructor / Training Administrator - Lee Capell

10/20/2021

Date

Cyril O Havird Jr



CONSULTBI
SUPERAHERA

BI-00258
SA-02162

Expiration Date:
10/19/22
10/18/22

ABS ENVIRONMENTAL

1416 Chapin Road, Chapin, South Carolina 29036 803-345-3833

Sid Havird

SSN xxx-xx-4506

This is to certify that the above named student has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved:

DRAFT

AHERA Asbestos Inspector Refresher

Course Location: Chapin SC

Certificate Number: 20211020Ab301-02

Start Date October 20, 2021

End Date October 20, 2021

Exam Date: October 20, 2021

Expiration Date October 19, 2022

Principal Instructor / Training Administrator - Lee Capell

10/20/2021

Date

APPENDIX C

Lab Results

DRAFT



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

Lab Code: B2212172
Date Received: 09-20-22
Date Analyzed: 09-21-22
Date Reported: 09-21-22

Project: I-85 SB Bridge Over I-26, Orangeburg County.

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Cellulose	Non-Fibrous	Binder	
01-SB B2212172.1	Buffer Material	Heterogeneous Cream-Gray,Black Fibrous Bound	<1%	Cellulose	2% 98%	Paint Binder	None Detected
Unable to separate.							
02-SB B2212172.2	Buffer Material	Heterogeneous Cream-Gray,Black Fibrous Bound	<1%	Cellulose	2% 98%	Paint Binder	None Detected
Unable to separate.							
03-SB B2212172.3	Buffer Material	Heterogeneous Cream-Gray,Black Fibrous Bound	<1%	Cellulose	2% 98%	Paint Binder	None Detected
Unable to separate.							
04-SB B2212172.4	Expansion Joint Material	Homogeneous Light Gray Non-fibrous Bound			100%	Binder	None Detected
05-SB B2212172.5	Expansion Joint Material	Homogeneous Light Gray Non-fibrous Bound			100%	Binder	None Detected
06-SB Layer 1 B2212172.6	Expansion Joint Material	Homogeneous Light Gray Non-fibrous Bound			100%	Binder	None Detected
Layer 2 B2212172.6	Expansion Joint Material	Homogeneous Dark Gray Non-fibrous Bound			100%	Binder	None Detected

DRAFT

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

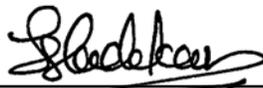
Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

DRAFT

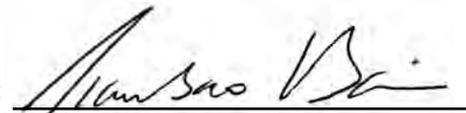
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:


Shilpa Ladekar

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director



September 22, 2022

ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

CLIENT PROJECT: I-85 SB Bridge Over I-26, Orangeburg County.
LAB CODE: T222494

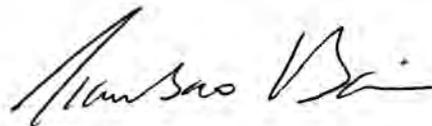
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on September 21, 2022. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

ARM Environmental Services

CLIENT PROJECT: I-85 SB Bridge Over I-26, Orangeburg County.

LAB CODE: T222494

DRAFT

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 09/22/22



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

Lab Code: T222494
Date Received: 09-21-22
Date Analyzed: 09-22-22
Date Reported: 09-22-22

Project: I-85 SB Bridge Over I-26, Orangeburg County.

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
01-SB T48638	Cream-Gray, Black Buffer Material	0.2746	64.3	31.7	4	None Detected
02-SB T48639	Cream-Gray, Black Buffer Material	0.3504	68.6	27.4	4	None Detected
03-SB T48640	Cream-Gray, Black Buffer Material	0.3429	64.4	31.5	4.1	None Detected
04-SB T48641	Light Gray Expansion Material	0.3237	18.8	46.3	34.9	None Detected
05-SB T48642	Light Gray Expansion Material	0.3784	23.4	34.6	42	None Detected
06-SB T48643	Light Gray Expansion Material	0.4298	22.1	21.2	56.7	None Detected
06-SB T48644	Dark Gray Expansion Material	0.3578	30.4	15.7	53.9	None Detected

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

Eurofins CEI recommends between 0.500 and 0.200 grams of sample material. *Any weight below 0.100 grams is considered below protocol guidelines.*

DRAFT

ANALYST: Brunilda Gjoka
Brunilda Gjoka

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

**ASBESTOS
CHAIN OF CUSTODY**

6

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code: B222172 / T222494
CEI Lab I.D Range:

Company Information		Project Information	
CEI Client #		Job Contact: Sid Havird, Robbie Robertson	
Company: ARM Environmental Services		Email: shavird@armenv.com, rrobertson@armenv.com csmith@armenv.com	
Address: 1210 First Street South Extension Columbia, SC 29209		Project Name: I-95 SB Bridge over I-26, Orangeburg County.	
Email: armenv.com		Project ID#:	
Tel: 803-783-3314	Fax: 803-783-2587	PO #:	
		State Samples Collected In: SC	

IF TAT IS NOT MARKED, STANDARD 3 DAY TAT APPLIES

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			

Remarks/Special Instructions: Use positive stop. Run PLM first & if less than 1% run TEM confirmation on all NOB materials.

** Only run Tem if makeup of material requires it.*

Positive Stop Needed: Yes / No Date Sample: 9-15-22

Accept Samples
 Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Robbie Robertson	9-15-22	<i>[Signature]</i>	9-20-22 9:50

Samples will be disposed of 30 days after analysis

SAMPLE ID#	DESCRIPTION	LOCATION	TEST	
			PLM	TEM
01-SB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
02-SB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
03-SB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
04-SB	Expansion Joint material	I-95 SB Bridge over I-26	X	X
05-SB	Expansion Joint material	I-95 SB Bridge over I-26	X	X
06-SB	Expansion Joint material	I-95 SB Bridge over I-26	X	X

APPENDIX D

XRF Data

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Index	Time	Type	Sequence	Component	Substrate	Side	Condition	Color	Site	Room	Results	PbC
1	2022-09-15 08:59	SHUTTER_CAL	Final									1.63 ± 0.00
2	2022-09-15 09:01	PAINT	Final			CALIBRATE					Positive	0.90 ± 0.10
3	2022-09-15 09:01	PAINT	Final			CALIBRATE					Positive	1.20 ± 0.40
4	2022-09-15 09:02	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
5	2022-09-15 09:05	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	SB 195 bridge over 126	OUTSIDE	Negative	0.01 ± 0.02
6	2022-09-15 09:06	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	SB 195 bridge over 126	OUTSIDE	Negative	-0.28 ± 0.92
7	2022-09-15 09:07	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	SB 195 bridge over 126	OUTSIDE	Negative	0.01 ± 0.02
8	2022-09-15 09:09	PAINT	Final	cross bracing	steel	RIGHT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.05 ± 0.06
9	2022-09-15 09:09	PAINT	Final	cross bracing	steel	RIGHT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.01 ± 0.02
10	2022-09-15 09:10	PAINT	Final	cross bracing	steel	RIGHT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.02 ± 0.08
11	2022-09-15 09:11	PAINT	Final	beam	steel	RIGHT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.02 ± 0.05
12	2022-09-15 09:12	PAINT	Final	beam	steel	RIGHT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.09 ± 0.19
13	2022-09-15 09:13	PAINT	Final	bridge shoes	steel	LEFT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.15 ± 0.15
14	2022-09-15 09:13	PAINT	Final	bridge shoes	steel	LEFT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.06 ± 0.03
15	2022-09-15 09:14	PAINT	Final	bridge shoes	steel	LEFT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.18 ± 0.19
16	2022-09-15 09:15	PAINT	Final	bridge shoes	steel	LEFT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Null	0.17 ± 0.04
17	2022-09-15 09:16	PAINT	Final	bridge shoes	steel	LEFT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Null	0.14 ± 0.04
18	2022-09-15 09:16	PAINT	Final	bridge shoes	steel	LEFT	INTACT	gray	SB 195 bridge over 126	OUTSIDE	Negative	0.05 ± 0.03
19	2022-09-15 09:19	PAINT	Final			CALIBRATE					Positive	1.20 ± 0.40
20	2022-09-15 09:20	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
21	2022-09-15 09:20	PAINT	Final			CALIBRATE					Positive	1.30 ± 0.50
22	2022-09-15 09:20	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.40
23	2022-09-15 09:21	PAINT	Final			CALIBRATE					Positive	0.90 ± 0.10
24	2022-09-15 09:21	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
25	2022-09-15 09:21	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.40
67	2022-09-15 09:54	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.40
68	2022-09-15 09:54	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.20
69	2022-09-15 09:55	PAINT	Final			CALIBRATE					Positive	1.20 ± 0.40
70	2022-09-15 09:57	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over 126	OUTSIDE	Negative	0.03 ± 0.03
71	2022-09-15 09:58	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over 126	OUTSIDE	Negative	0.01 ± 0.02
72	2022-09-15 09:59	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over 126	OUTSIDE	Negative	0.03 ± 0.03
73	2022-09-15 09:59	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over 126	OUTSIDE	Negative	-0.38 ± 1.07

Index	Time	Type	Sequenc	Component	Substra	Side	Condition	Color	Site	Room	Results	PbC
74	2022-09-15 10:00	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Null	0.02 ± 0.05
75	2022-09-15 10:01	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Null	0.10 ± 0.14
76	2022-09-15 10:01	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Null	0.08 ± 0.12
77	2022-09-15 10:01	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Null	0.08 ± 0.05
78	2022-09-15 10:02	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Null	0.07 ± 0.05
79	2022-09-15 10:02	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Negative	-0.80 ± 1.50
80	2022-09-15 10:03	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Negative	-0.52 ± 1.20
81	2022-09-15 10:07	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Negative	0.02 ± 0.04
82	2022-09-15 10:08	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Negative	0.01 ± 0.02
83	2022-09-15 10:09	PAINT	Final	beam	steel	LEFT	INTACT	WHITE	SB 195 bridge over I26	OUTSIDE	Negative	0.17 ± 0.39
84	2022-09-15 10:12	PAINT	Final			CALIBRATE					Positive	1.20 ± 0.40
85	2022-09-15 10:12	PAINT	Final			CALIBRATE					Positive	1.20 ± 0.40
86	2022-09-15 10:12	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.30

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APPENDIX E

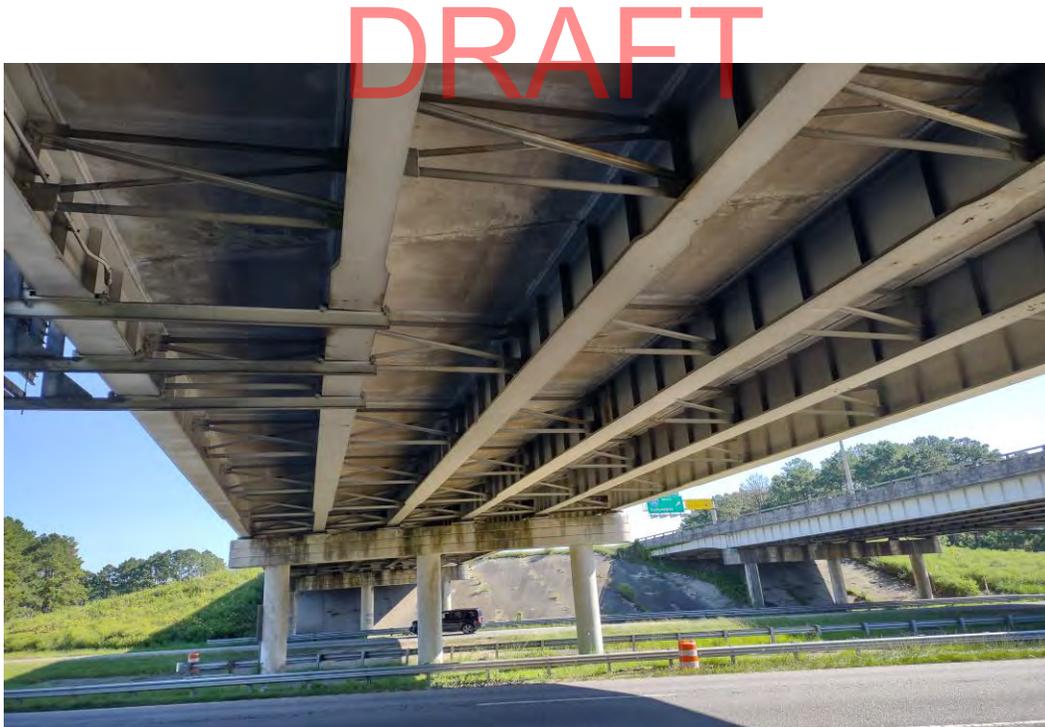
Photos

DRAFT



Photograph 1

A view of the I-95 southbound bridge over I-26 in Orangeburg County where an Asbestos and Lead-Based Paint Survey was performed by ARM Environmental.



Photograph 2

A view of the underside of the I-95 southbound bridge over I-26 in Orangeburg County.

S-38 1302 Bridge Over I-26
Orangeburg County, South Carolina

Asbestos and Lead-Based Paint
Survey Report

Structure # 387130200100
ARM Project #16-318-22

October 14, 2022

Prepared For:

Civil Engineering Consulting Services, Inc.
2000 Park Street, Suite 201
Columbia, South Carolina, 29201

- DRAFT**
- Yes, Asbestos was found
 - No, Asbestos was not found
 - Yes, Lead-Based Paint was found
 - No, Lead-Based Paint was not found

Report Compiled By:

Robbie Robertson

Robbie Robertson
ASBESTOS CONSULTANT/
BUILDING INSPECTOR
SCDHEC LICENSE #BI-01179

Report Reviewed By:

Sid Havird

Sid Havird
ASBESTOS CONSULTANT/
BUILDING INSPECTOR
SCDHEC LICENSE #BI-00258



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Asbestos Conclusion / Recommendations	2
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Lead-based Paint Conclusions / Recommendations.....	3
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Inspectors Licenses & Certifications.....	Appendix B
Laboratory Results	Appendix C
XRF Data	Appendix D
Photographs	Appendix E

DRAFT

ASBESTOS AND LEAD-BASED PAINT SURVEY

On September 15, 2022, ARM Environmental Services, Inc. performed an asbestos and lead-based paint survey of the S-38 1302 bridge over I-26 in Orangeburg County, South Carolina. The S-38 1302 bridge is located over I-26 (eastbound and westbound lanes) as shown in Appendix A, Figure 1. The site consists of a highway bridge and can be identified by bridge structure number 387130200100. The asbestos survey has been conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines, as required by the Environmental Protection Agency (EPA) and the South Carolina Department of Health and Environmental Control (DHEC) prior to renovation or demolition of public or commercial structures. The lead-based paint survey was performed to identify lead-based paint (LBP) on the bridge.

BRIDGE MATERIALS

No construction records were available to determine the building materials used in construction of the structure. All accessible structural components including columns, piers, pier caps, bridge decks, beams, bridge shoes, end bents, railings and buffer materials were examined. Photographs of the site are shown in Appendix E.

The bridge deck of the structure consists of pre-cast concrete deck sections supported by concrete pier caps. The concrete pier caps, which run perpendicular to the bridge deck, are supported by concrete piers. Concrete and galvanized metal guardrails are located on the bridge structure. The bridge structure is estimated to be 260 feet long and 20 feet wide.

ASBESTOS SURVEY

Samples of the suspect materials were collected and submitted for laboratory analysis for Polarized Light Microscopy (PLM). One sample of each material was also collected for transmission electron microscopy (TEM) confirmation analysis in the event that the PLM analysis indicated less than 1 percent asbestos. The sample locations are shown in Appendix A, Figure 2. The results of the laboratory analysis are presented in Table 1 on the following page.

Table 1: Asbestos Sample Analytical Data

Sample Number	Material Description	Material Locations	Friable / Non-friable	Material Condition	Analytical Results*	Approx. Quantity
01-S381302, 02-S381302, 03-S381302	Expansion Joint	Between Concrete Deck Sections (topside)	Non-friable	Good	No Asbestos Detected	150 Linear Feet
04-S381302, 05-S381302, 06-S381302	Buffer Material	Between Concrete Deck Sections	Non-friable	Good	No Asbestos Detected	500 Square Feet

Asbestos Content: USEPA and SCDHEC regulations (No. 61-86.1) define asbestos containing material as any material greater than one percent asbestos. OSHA recommends that a negative exposure assessment (NEA) be conducted to establish appropriate personal protection equipment needed (if any) for all persons that might disturb asbestos materials.

Friable: Describes a material which, when dry, can be crumbled, pulverized, or reduced to powder with hand pressure.

The laboratory results are included in Appendix C of this report.

ASBESTOS CONCLUSIONS / RECOMMENDATIONS

An asbestos inspection was performed for a structure, the S-38 1302 bridge over I-26 in Orangeburg County, South Carolina. **The results of the asbestos survey indicate that none of the sampled materials contain asbestos.**

The results of this asbestos survey are limited to the sampled materials, which are considered to be representative of the homogeneous areas from which the samples were collected. **In the event that any suspect asbestos containing materials that were not addressed in this survey are encountered, the materials should be presumed to contain asbestos until laboratory analysis can be conducted.**

LEAD-BASED PAINT SURVEY

ARM personnel conducted a lead-based paint survey of accessible painted bridge materials at the S-38 1302 bridge over I-26 on September 15, 2022. The LBP inspection was conducted using a Niton XLp-300A X-ray Fluorescence (XRF) Analyzer (Serial #110851) to measure the lead content of surface coatings on representative bridge building components. A homogenous bridge building component is a building material that is uniform in color, texture, and appears identical in every respect. EPA guidelines define lead-based paint as any paint

with equal to or greater than 1.0 milligram of lead per square centimeter of painted surface (mg/cm²) when measured by X-ray Fluorescence. SCDHEC, Health Division defines lead-based paint as a coating containing lead in quantities ≥ 0.7 mg/cm² (SCDHEC, Health Division definition #4-53-1320f). Any coated surfaces meeting or exceeding the SCDHEC limit of 0.7 mg/cm² were considered lead-based paint for the purpose of this assessment since the structure may be slated for renovation or demolition. All waste debris coated with lead-based paint equal to or greater than 0.7mg/cm² must be disposed of in an approved Class II (C&D) or Class III (MSWLF) landfill or approved metal recycler.

The bridge structure is primarily composed of concrete components. The only material sampled for lead-based paint was the concrete beams at the underside of the bridge. **The results of the XRF analyses indicate that the sampled material does not contain lead-based paint** as summarized in Table 2 below.

Table 2: Bridge Building Material XRF Summary

Sample Number	Material Description	Material Location	Color	Material Condition	LEAD Content mg/cm ²
Reading 91-95	Concrete Beams	At Bridge Underside	White	Good	Negative

Lead Content: EPA guidelines define lead-based paint as any paint with equal to or greater than 1.0 milligram of lead per square centimeter of painted surface (mg/cm²) when measured by X-ray Fluorescence. DHEC guidelines define lead-based paint as any paint with equal to or greater than 0.7 mg/cm² when measured by X-ray Fluorescence. The OSHA Lead in Construction Standard, 29 CFR 1926.62 is applied if any lead is present in the sample.

The XRF data results are presented in Appendix D. Photographs of the site are located in Appendix E.

LEAD-BASED PAINT CONCLUSIONS / RECOMMENDATIONS

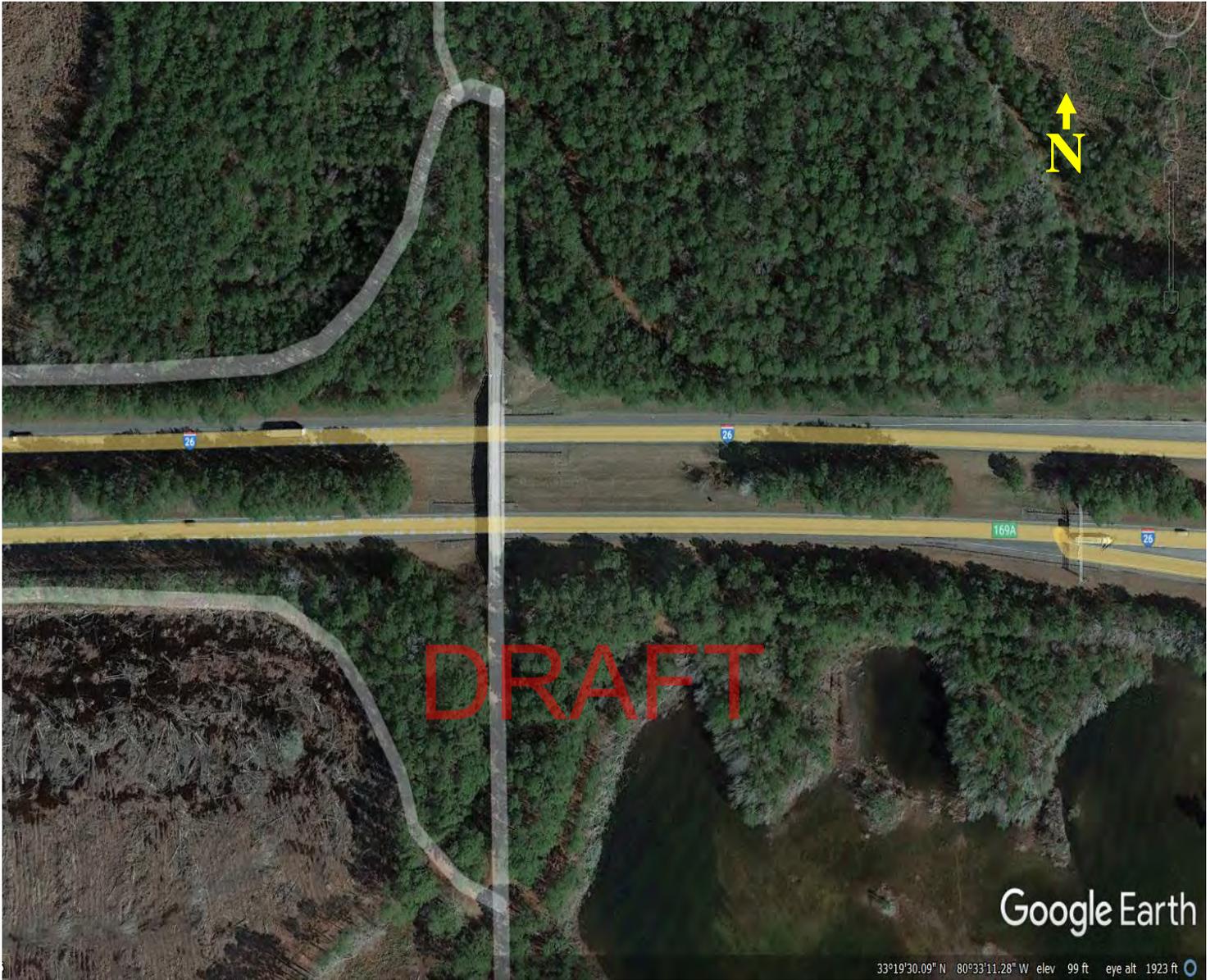
A lead-based paint survey was performed for the S-38 1302 bridge over I-26 in Orangeburg County, South Carolina. **The results of the XRF analyses indicate that the concrete beams sampled from the underside of the bridge do not contain lead-based paint.**

In the event that any suspect painted materials not addressed in this survey are encountered, the materials should be presumed to be coated with lead paint until XRF or laboratory analysis can be conducted.

APPENDIX A

Figures

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Project

Asbestos & Lead-Based Paint Survey
 S-38 1302 Bridge Over I-26
 Orangeburg County, South Carolina

Figure 1

Site Plan

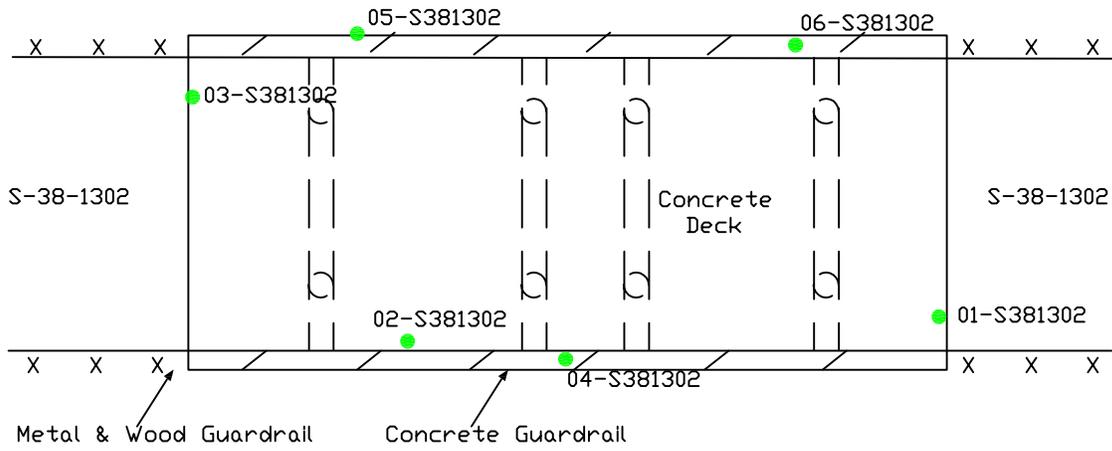
Scale

No Scale

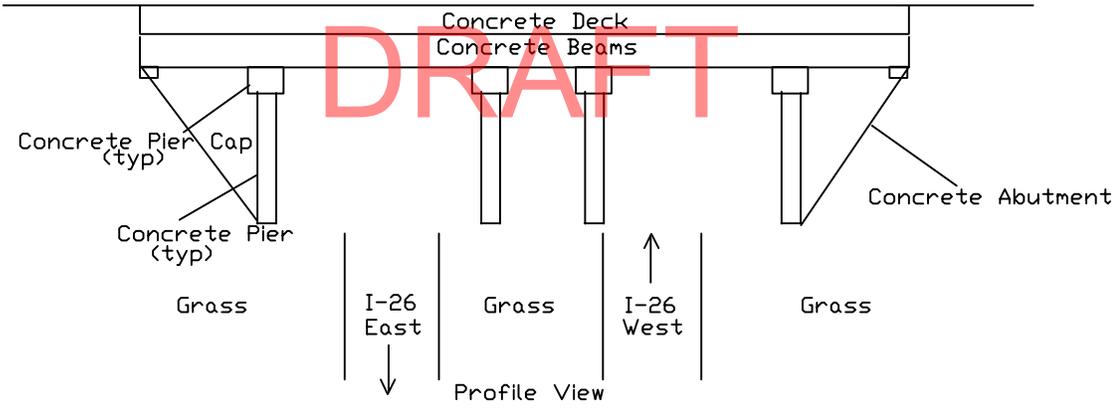
Date

October 2022

ARM ENVIRONMENTAL
 SERVICES, INC.



Plan View



Profile View

<p><i>PROJECT:</i></p> <p>Asbestos & Lead Based Paint Survey S-38-1302 Bridge over I-26 Orangeburg County, South Carolina ARM Project # 16-318-22</p>	<p><i>DESCRIPTION:</i></p> <p>Site Plan Showing Sample Locations</p> <p>(Map Not To Scale)</p>	<p>FIGURE 2</p> <p><i>DATE:</i></p> <p>October 2022</p>
	<p><i>REFERENCE:</i></p> <p>Field Notes</p>	<p><i>LEGEND:</i></p> <p>Negative Asbestos Sample = ●</p> <p>Positive Asbestos Sample = ▲</p>

APPENDIX B

Licenses / Certifications

DRAFT

SCDHEC ISSUED

Asbestos ID Card

Robbie Robertson



CONSULTBI
SUPERHERA

BI-01179
SA-01861

Expiration Date:
10/19/22
10/18/22



1416 Chapin Road, Chapin, South Carolina 29036 803-345-3833

Robbie Robertson

SSN xxx-xx-3715

This is to certify that the above named student has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved:

DRAFT

AHERA Asbestos Inspector Refresher

Course Location: Chapin SC

Certificate Number: 20211020Ab301-03

Start Date October 20, 2021

End Date October 20, 2021

Exam Date: October 20, 2021

Expiration Date October 19, 2022

Principal Instructor / Training Administrator - Lee Capell

10/20/2021

Date

Cyril O Havird Jr



CONSULTBI
SUPERAHERA

BI-00258
SA-02162

Expiration Date:
10/19/22
10/18/22

ABS ENVIRONMENTAL

1416 Chapin Road, Chapin, South Carolina 29036 803-345-3833

Sid Havird

SSN xxx-xx-4506

This is to certify that the above named student has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved:

DRAFT

AHERA Asbestos Inspector Refresher

Course Location: Chapin SC

Certificate Number: 20211020Ab301-02

Start Date October 20, 2021

End Date October 20, 2021

Exam Date: October 20, 2021

Expiration Date October 19, 2022

Principal Instructor / Training Administrator - Lee Capell

10/20/2021

Date

APPENDIX C

Lab Results

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CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

Lab Code: B2212171
Date Received: 09-20-22
Date Analyzed: 09-21-22
Date Reported: 09-21-22

Project: S38 - 1302 Bridge Over I-26, Orangeburg Cty.

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
01-S381302 Layer 1 B2212171.1	Expansion Joint Material	Homogeneous Light Gray Non-fibrous Bound	100%	Binder		None Detected	
Layer 2 B2212171.1	Expansion Joint Material	Homogeneous Dark Gray Non-fibrous Bound	100%	Binder		None Detected	
02-S381302 B2212171.2	Expansion Joint Material	Homogeneous Light Gray Non-fibrous Bound	100%	Binder		None Detected	
03-S381302 B2212171.3	Expansion Joint Material	Homogeneous Light Gray Non-fibrous Bound	100%	Binder		None Detected	
04-S381302 B2212171.4	Buffer Material	Homogeneous Black Fibrous Bound	2%	Cellulose	85%	Tar	None Detected
					13%	Binder	
05-S381302 B2212171.5	Buffer Material	Homogeneous Black Fibrous Bound	2%	Cellulose	85%	Tar	None Detected
					13%	Binder	
06-S381302 B2212171.6	Buffer Material	Homogeneous Black Fibrous Bound	2%	Cellulose	85%	Tar	None Detected
					13%	Binder	

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LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

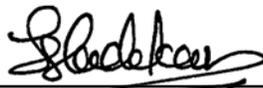
Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

DRAFT

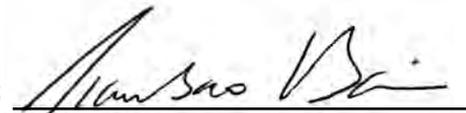
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:


Shilpa Ladekar

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director



September 22, 2022

ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

CLIENT PROJECT: S38 - 1302 Bridge Over I-26, Orangeburg Cty.
LAB CODE: T222493

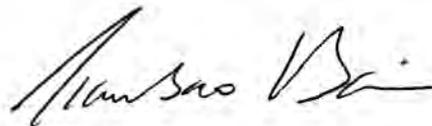
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on September 21, 2022. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

ARM Environmental Services

CLIENT PROJECT: S38 - 1302 Bridge Over I-26, Orangeburg Cty.

LAB CODE: T222493

DRAFT

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 09/22/22



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: ARM Environmental Services
1210 1st Street South Ext.
Columbia, SC 29209

Lab Code: T222493
Date Received: 09-21-22
Date Analyzed: 09-22-22
Date Reported: 09-22-22

Project: S38 - 1302 Bridge Over I-26, Orangeburg Cty.

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
01-S381302 T48631	Light Gray Expansion Material	0.4011	26	54.6	19.4	None Detected
01-S381302 T48632	Dark Gray Expansion Material	0.4219	25.3	51.2	23.5	None Detected
02-S381302 T48633	Light Gray Expansion Material	0.3959	35.6	60.9	3.5	None Detected
03-S381302 T48634	Light Gray Expansion Material	0.4719	37.5	57.4	5.1	None Detected
04-S381302 T48635	Buffer Material	0.3887	95.1	2.6	2.3	None Detected
05-S381302 T48636	Buffer Material	0.2621	92	3.4	4.6	None Detected
06-S381302 T48637	Buffer Material	0.2823	96.8	1.1	2.1	None Detected

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

Eurofins CEI recommends between 0.500 and 0.200 grams of sample material. *Any weight below 0.100 grams is considered below protocol guidelines.*

DRAFT

ANALYST: Brunilda Gjoka
Brunilda Gjoka

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS CHAIN OF CUSTODY

6

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code: B2212171 / T222493
CEI Lab I.D Range:

Company Information		Project Information	
CEI Client #		Job Contact: Sid Havird, Robbie Robertson	
Company: ARM Environmental Services		Email: shavird@armenv.com, rrobertson@armenv.com, csmith@armenv.com	
Address: 1210 First Street South Extension Columbia, SC 29209		Project Name: S38 – 1302 Bridge over I-26, Orangeburg Cty.	
Email: armenv.com		Project ID#:	
Tel: 803-783-3314	Fax: 803-783-2587	PO #:	
		State Samples Collected In: SC	

IF TAT IS NOT MARKED, STANDARD 3 DAY TAT APPLIES

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			

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Remarks/Special Instructions: Use positive stop. Run PLM first & if less than 1% run TEM confirmation on all NOB materials.
** Only Run Tem if makeup of material requires it.*

Positive Stop Needed: Yes / No Date Sample: 9-15-22

Accept Samples
 Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Robbie Robertson	9-15-22	<i>[Signature]</i>	9-20-22 9:50

Samples will be disposed of 30 days after analysis

SAMPLE ID#	DESCRIPTION	LOCATION	TEST	
			PLM	TEM
01-S381302	Expansion Joint Material	Bridge at S38 – 1302	X	X
02-S381302	Expansion Joint Material	Bridge at S38 – 1302	X	X
03-S381302	Expansion Joint Material	Bridge at S38 – 1302	X	X
04-S381302	Buffer Material at bridge sections	Bridge at S38 – 1302	X	X
05-S381302	Buffer Material at bridge sections	Bridge at S38 – 1302	X	X
06-S381302	Buffer Material at bridge sections	Bridge at S38 – 1302	X	X

APPENDIX D

XRF Data

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Index	Time	Type	Sequence	Component	Substrate	Side	Condition	Color	Site	Room	Results	PbC
88	2022-09-15 11:22	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
89	2022-09-15 11:22	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
90	2022-09-15 11:22	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
91	2022-09-15 11:25	PAINT	Final	beams	CONCRE	LEFT	INTACT	WHITE	S38 -1302 bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
92	2022-09-15 11:25	PAINT	Final	beams	CONCRE	LEFT	INTACT	WHITE	S38 -1302 bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
93	2022-09-15 11:26	PAINT	Final	beams	CONCRE	LEFT	INTACT	WHITE	S38 -1302 bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
94	2022-09-15 11:27	PAINT	Final	beams	CONCRE	LEFT	INTACT	WHITE	S38 -1302 bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
95	2022-09-15 11:27	PAINT	Final	beams	CONCRE	LEFT	INTACT	WHITE	S38 -1302 bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
96	2022-09-15 11:28	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
97	2022-09-15 11:28	PAINT	Final			CALIBRATE					Positive	1.20 ± 0.40
98	2022-09-15 11:28	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.40

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APPENDIX E

Photos

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Photograph 1

A view of the S-38 1302 bridge over I-26 in Orangeburg County where an Asbestos and Lead-Based Paint Survey was performed by ARM Environmental.

DRAFT



Photograph 2

Another view of the S-38 1302 bridge. There were no asbestos containing materials or lead-based paint detected on the bridge materials tested.

Attachment 5

Cultural Resources Report

**CULTURAL RESOURCES FIELD REPORT
SCDOT ENVIRONMENTAL SECTION**



TITLE: Phase I Cultural Resources Survey for the I-26 at I-95 Interchange Improvement in Orangeburg County, South Carolina

DATES OF RESEARCH: 8/30/2022 – 9/17/2022; 11/21/22 – 11/22/22 **ARCHAEOLOGIST:** Kaitlin

Ahern; James Stewart **ARCHITECTURAL HISTORIAN:** Sean Stucker

COUNTY: Orangeburg and Dorchester **PROJECT:** Interstate I-26 at I-95 Interchange Improvement

F. A. No.: **File No.:** **PIN:** P029252

DESCRIPTION: The South Carolina Department of Transportation (SCDOT) proposes to improve the Interstate 26 (I-26) at Interstate 95 (I-95) Interchange. This project will result in a full interchange improvement that will address the operational deficiencies of the current configuration. These improvements will address merge and weave movements along both interstates, and the anticipated realignment of the interchange ramps will provide more direct movement from interstate to interstate and improve safety. The new overpasses will also allow for additional travel lanes on I-26 and will afford a 16-foot (5 m) full-depth shoulder for evacuation purposes.

The project area encompasses 481 acres; it extends for 2.6 miles (4.2 km) of I-26 and for 2.5 miles (4.0 km) of I-95 and includes the intersection of the two interstate highways. Along I-26, it begins 1 mile northwest of Whetsell Road (SR 38-1302) and extends southwest to 0.15 miles northwest of Weathers Farm Road. Along I-95, it begins 0.14 miles northeast of Duncan Chapel Road and extends northeast for 2.5 miles. The Area of Potential Effects (APE) was defined in consultation with the SCDOT; it consists of the project area and the 300-foot viewshed beyond the existing right of way (ROW). The archaeological survey examined the project area, while the architectural survey examined the entire APE.

LOCATION: The project area is located along sections of I-26 and I-95 in Orangeburg and Dorchester counties in South Carolina (Figure 1). Within Orangeburg County, it is situated in the south-central portion that borders Dorchester County, and within Dorchester County, it is situated in the north-central portion that borders Orangeburg County.

USGS QUADRANGLE: Wadboo Swamp, SC

DATE: 2017

SCALE: 7.5'

UTM: NAD 83 **ZONE:** 17N

EASTING: 541705

NORTHING: 3687091

ENVIRONMENTAL SETTING: The project area is in the Upper Coastal Plain physiographic province, which has an area of approximately 9,200 square miles (about 23,830 sq. km) and is situated between the Piedmont and Lower Coastal Plain. Elevations in the project area range from 88 to 126 feet (27–38 m) above mean sea level, with an average slope of under 1 percent.

NEAREST RIVER/STREAM AND DISTANCE: The Four Hole Swamp River, a tributary of the Edisto River, is situated 1 mile (1.6 km) from both the northeast and northwest edges of the APE. The southwestern shore of Lake Marion is located 11.5 miles (18.5 km) to the northwest of the project area, and the western shore of Lake Moultrie is located 22.5 miles (36 km) to the east.

SOIL TYPE: Nine soil types are present in the project area. According to the Web Soil Survey, USDA soils mapped within the APE include 40.2 percent of moderately well drained Goldsboro sandy loam, 29.7 percent of somewhat poorly drained Ocilla loamy sand, 9.6 percent of poorly drained Rains sandy loam, 12.2 percent of somewhat poorly drained Lynchburg fine sandy loam, 4.3 percent somewhat poorly drained Stallings loamy sand; 0.9 percent of poorly

drained Coxville sandy loam; 0.8 percent of very poorly drained Byars loam, and 0.1 percent of poorly drained Pelham loamy sand. The remaining 2.3 percent of the survey area was covered by water.

REFERENCE FOR SOILS INFORMATION: USDA-NCRS Soil Survey Division, Custom Soil Resource Report (websoilsurvey.sc.egov.usda.gov).

GROUND SURFACE VISIBILITY: 0% _____ 1-25% X 26-50% _____ 51-75% _____ 76-100% _____

CURRENT VEGETATION: The project area is in a rural landscape alongside I-26 and I-95. It primarily consists of woods, wetlands, agricultural fields, and scrub vegetation (Figure 2). Wooded sections of the APE contain pine and mixed hardwoods along with low-lying undergrowth. Vegetation in the wetlands and drainage ditches includes aquatic grasses and lilies. Scrub vegetation is found in recently clear-cut sections of the APE and includes shrubs, young pine trees, and briars. Ground visibility in the wooded and scrub sections of the project area is less than 15 percent. In the wetland section of the APE, ground visibility is less than 25 percent.

INVESTIGATION:

BACKGROUND RESEARCH

Before beginning fieldwork, New South Associates, Inc. (NSA) performed a review of the South Carolina ArchSite digital files and GIS database maintained by the South Carolina Institute of Archaeology and Anthropology and the South Carolina Department of Archives and History to identify previously recorded resources near the APE.

The search radius contains at least three prior surveys, two of which are represented in ArchSite GIS data (Table 1). The 1996 *Dorchester County, South Carolina: Historic Resources Survey* (Fick and Davis 1996) is not represented on ArchSite’s GIS map, but the survey is indicated therein as the source report for SHPO Site Number 0988 (and its sub resource 0988.01). The 2000 *An Intensive Architectural Survey and Archaeological Reconnaissance of the Intersection of I-95 and I-26* survey area incorporates the entire project area. The archaeological reconnaissance consisted of a windshield survey and walkover of selected areas, including the northwest section of I-26 and a section of Whetsell Pond Road (Hamby et al. 2000). An addendum to the 2000 survey, reported in *Intensive Archaeological and Architectural Survey for Proposed Access Road*, was a linear survey conducted the following year (Adams 2001).

The search radius contains no previously recorded archaeological sites, but it does include five previously recorded architectural resources, none of which are considered eligible for the NRHP (Table 2; Figure 3).

The APE does not contain any previously recorded architectural resources. One of the resources within the search radius, SHPO Site Number 0150, is barely visible in undergrowth on the east side of Whetsell Road, 525 feet (160 m) north of Pond Road. This structure appears to be in an accelerated state of decay. Because none of the resources are within the APE, official revisits were not conducted.

Table 1. Previous Cultural Resources Surveys within 0.5 Miles of APE

Survey Name	Survey Date	Consultant (Agency)	Survey Type	Authors
Dorchester County, South Carolina: Historic Resources Survey	1996	Preservation Consultants, Inc.	Intensive	Fick and Davis 1996
An Intensive Architectural Survey and Archaeological Reconnaissance of the Intersection of I-95 and I-26	2000	NSA (SCDOT)	Intensive	Hamby et al. 2000
Intensive Archaeological and Architectural Survey for Proposed Access Road	2001	NSA (SCDOT)	Intensive	Adams 2001

Table 2. Previously Identified Cultural Resources within 0.5 Miles of APE

Site/SHPO Number	Resource Type and Location	Temporal Affiliation	NRHP Recommendation	Reference
0110	Don and Molly Carns Weathers House 343 Ennis Lane, Orangeburg County	c.1900	Not Eligible	Hamby et al. 2000
0150	Partially Collapsed Hall and Parlor Whetsell Road (SR 38-1302), Orangeburg County	c. 910	Not Eligible	Hamby et al. 2000
0988	Julius Weathers House 289 Weathers Farm Road	c.1910, c.1930	Not Eligible	Fick and Davis 1996
0988.01	Smokehouse 289 Weathers Farm Road	c.1920	Not Eligible	Fick and Davis 1996
1122	Jasper Weathers, Barn 216 Hart Road	1914; 1959	Not Eligible	Hamby et al. 2000

SURVEY RESULTS

The survey identified one new site and one new building within the APE. The new resources are listed in Table 3 and discussed in detail below.

Table 3. Newly Identified Cultural Resources

Site/SHPO Site No.	Name/Address	Resource Type	Temporal Affiliation	NRHP Recommendation
0456	1418 SR 38-28 (Ebenezer Road)	Residence	c. 1958	Not Eligible
38OR437	FS-1	Logging Rail Bed	Early 20th Century (pre-1938)	Not Eligible

ARCHAEOLOGY

The intensive survey was performed in two stages. During the first stage, September 6–17, 2022, James Stewart served as Field Director, with Kaitlin Ahern, Anne Dorland, Michael McCaffery, and John Tomko assisting in the field. Stewart also supervised fieldwork during the second stage, November 21-22, 2022. Kelly Higgins assisted with second stage fieldwork. NSA preplotted shovel tests prior to archaeological fieldwork. Shovel tests were generally plotted at 30-meter intervals in well drained areas. In somewhat poorly drained and poorly drained areas, shovel tests were plotted at 60-meter intervals. NSA did not preplot shovel tests in areas determined in desktop review of LiDAR terrain data to be significantly disturbed, such as between the road prisms and in the cloverleaf. Additional untested areas included the drainage channels and side slopes of the interstate prism, borrow pits, and pine planting beds. If additional disturbances were encountered during survey work, the location was photographed and recorded as not testable. Digital records were kept for all tested or photographed locations. Shovel test notes, including soil profiles, were recorded for all excavated tests in the Memento Database application.

The survey consisted of 655 preplotted shovel tests and eight delineation shovel tests. NSA excavated 564 shovel tests (Figures 4–14). The remaining 99 preplotted shovel tests were not excavated due to the presence of surface water ($n=37$), road disturbances or road fill ($n=20$), steep slopes ($n=19$), paved or dirt roads ($n=17$), debris piles ($n=5$), and a hornet nest ($n=1$). Shovel Test 305 produced a railroad spike. No other tests produced cultural remains.

Project area soil profiles were generally consistent. A typical shovel test contained dark gray (10YR 4/1) sandy loam, 0–25 centimeters below surface (cmbs), over light gray (10 YR 7/1) sandy clay subsoil, 25–35 cmbs. Forty-two shovel tests were heavily disturbed and contained gray (10YR 5/1) sandy clay subsoil, 0–30 cmbs, often mottled with dark yellow brown (10YR 4/6) sandy clay. Soil in the clear cut on the northern side of the interchange (Figure 15) differed slightly from the rest of the project area. Clear-cut soil profiles included 25 centimeters of very dark grayish brown

(10YR 3/2) sandy loam overlying 15 centimeters of light gray (10YR 7/1) sand. A yellow brown (10YR 5/4) sandy clay subsoil continued a further 10 centimeters (40–50 cmbs) below this stratum.

SITE 38OR437

Site 38OR437 is a raised earthen railbed dating to the historic period. This site was identified in the northern quadrant of the project area, 24 meters from the end of an abandoned section of frontage road. Local vegetation includes a mix of pines and hardwoods. Some cypress trees were noted in an area of low-lying swamp on the eastern edge of the site. The understory included scrub vegetation and bay laurel. Dense leaf litter and pine straw obscured ground surface visibility. The railbed extended 243 meters from the frontage road into a recently clear cut portion of the project area. The 243-meter-long raised earthen railbed was 4.7 meters wide and 20 centimeters high (Figure 16). A 0.8-meter-wide ditch was located on either side of the bed. These dimensions suggest that the railbed was used for a narrow-gauge logging railroad operation.

Shovel Test 305 was excavated in the abandoned railroad bed. The subsurface surrounding Shovel Test 305 was examined with a cruciform of eight 10-meter-interval shovel tests (see Figure 5). None produced artifacts. The soil profile in the railbed contained dark grayish brown (10YR 4/2) sandy loam, 0–32 cmbs over dark grayish brown (10YR 4/2) sand, 32–40 cmbs, over very pale brown (10YR 7/4) sandy clay subsoil, 40–50 cmbs (Figure 17a). Shovel tests excavated outside the bed revealed dark gray (10YR 4/1) sandy loam, 0–30 cmbs, over brown (10YR 4/3) sand, 30–40 cmbs, over yellowish brown (10YR 5/4) sandy clay subsoil, 40–50 cmbs (Figure 17b).

In the late nineteenth and early twentieth centuries, rail lines were constructed to move timber from forests all over South Carolina. At the end of logging operations, reusable parts of the lines (e.g., tracks and cross ties) were removed, and the beds were abandoned (Fetters 1990). Historic aerial photography from 1938 shows that the area surrounding the railbed was wooded (USC Libraries 2022). This area remained heavily wooded until sometime between 1995 and 2005, when portions of the woods were thinned (NETR Online 2022). Because a clear-cut forest requires substantial time to regenerate tree cover, the railbed must predate the 1938 photograph by at least one or two decades.

Site 38OR437 is a section of a late nineteenth- or early twentieth-century logging rail bed. No tracks or crossies are present on the bed. The construction of the frontage road, later tree growth, and logging activity have considerably damaged the integrity of this feature. Considering these disturbances, the railbed cannot be used for its intended purpose. The site is a poor-quality remnant of the extensive logging railroads that were used to commercially harvest the state's forests. The site is recommended not eligible under Criterion B. Site 38OR437 does not convey any associations with significant individuals and is recommended not eligible under Criterion A. The site does not possess all the elements needed to fully convey the design of the railway or represent the work of a master craftsman, and so it is also recommended not eligible under Criterion C. There is little research potential present within Site 38OR437. Shovel testing did not locate any additional subsurface features or activity areas that would indicate this site could provide unique research contributions. Site 38OR437 is recommended not eligible under Criterion D. No further work is recommended.

ARCHITECTURE

On August 30, 2022, Architectural Historian Sean Stucker conducted a survey of the APE to identify unrecorded historic resources 50 years of age or older. Resources more than 50 years of age were surveyed in accordance with the *Survey Manual: South Carolina Statewide Survey of Historic Places* using a handheld tablet device (sixth generation iPad) with FileMaker Pro software. Resources were evaluated following the NRHP criteria, and South Carolina State Intensive Survey Forms were prepared for all newly recorded resources. The architectural survey documented one newly recorded resource and recommended it as not eligible for listing in the NRHP. No revisits were conducted for the five previously recorded resources found within the 0.5-mile search radius.

The project area is dominated by the infrastructure associated with the interchange, while the surrounding landscape outside the road ROW is rural, primarily comprising either wooded tracts or agricultural fields. The cloverleaf interchange of the two interstate highways dominates the central portion of the project area and encompasses about half of the project area's acreage (around 220 ac.). The rest of the project area extends away from the interchange in four directions along tree-lined interstate highways from which no building or built environment is visible. In a few instances, frontage roads parallel the interstates, and the northwestern leg includes the Whetsell Road Bridge over I-26, built in 1961 (Svirsky 2022). The Advisory Council on Historic Preservation (ACHP) issued a *Program Comment for Streamlining Section 106 Review for Undertakings Affecting Post-1945 Concrete and Steel Bridges* in 2012. A review of this Program Comment confirms that it applies to this post-1945 concrete-slab bridge, which relieves the SCDOT of the duty of considering the subject project's proposed effects on this resource.

Several parcels that border the project area contain buildings that are not visible from the interstate highways but that are located within the APE based on their parcel boundaries. Only one of these parcels contains an architectural resource greater than 50 years old: SHPO Site Number 0456. The resource is more than 0.6-miles (0.96 km) away from the project area and screened from the interstate by a forested area (Figure 18).

SHPO SITE NUMBER 0456 (1418 SR 38-28 [EBENEZER ROAD])

Orangeburg County tax records give 1418 Ebenezer Road as the address for SHPO Site Number 0456, a front-gabled house. However, the 246-acre property parcel does not border Ebenezer Road. SHPO Site Number 0456 is located at the southwestern corner of a large lot that is otherwise occupied by farm fields and forested areas. At its eastern extremity, the parcel abuts the southern end of the APE for about 250 feet (76 m). The building, shown on the tax assessor's GIS map and on both Google Maps and Bing Maps, is at the corner of Duncan Chapel and Jacques Hog House roads. The tax records do not list a construction date for the building. Historic imagery indicates that it was built sometime between the flyovers for the 1957 and 1958 aerial photography surveys (NETR Online 2022). The building is currently abandoned, and tax records show that it was not considered a taxed asset after 2006, at which time it was assessed at a value of \$4,500.

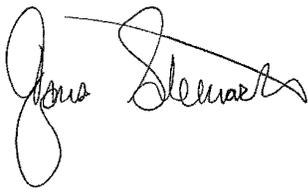
The one-story concrete-block house faces southwest and is roughly rectangular in plan with an asymmetrical façade. A screened porch with a rusted metal shed roof is appended across the two central bays flanking the porch. Both the porch and the house doors are positioned on the left (northwest) end of the porch (Figure 19). The two central bays have window openings with brick windowsills. The porch is likely original, as it seems to appear in the 1958 aerial photograph. Screening covers only the upper half of the porch structure, while the bottom half has unpainted weatherboard siding on the exterior. The same siding fills both front and rear gable ends. A rectangular wooden louver vent is centered in the front gable. The rear gable siding is in failing condition and is overgrown with vines that obstruct most of it, so it is not clear if there is a gable vent there as well. The building exterior is otherwise exposed concrete block, and the roof is clad with the same raised-seam metal panels as the porch roof. An exterior concrete-block and brick chimney is located on the northwest elevation, with window openings on either side, and an engaged porch with a rear doorway is cut into the corner of the northwest and rear elevations. One window opening is found on the rear elevation, while the southeast elevation has three window openings spaced evenly across it. There are no doors on the house, and only a couple of windows on the southeast elevation contain portions of six-pane sashes. Although the roof remains about 90 percent intact, sections of roof paneling at the rear of the house are missing (north corner) or are starting to peel up (east corner), and the roof structure above the engaged rear porch is beginning to collapse. Barring repairs, interior damage and structural decay are imminent.

SHPO Site Number 0456 is a front-gabled concrete-block house that, retains integrity in multiple aspects but is not a distinctive or noteworthy example of this common South Carolina house type. It was not found to embody the distinctive characteristics of a style, period, or method of construction, and it does not possess significance for its

engineering or materials. It is not known to be associated with events or persons significant in the past. Therefore, the resource is recommended as not individually eligible for listing in the NRHP under Criteria A, B, or C.

REMARKS AND RECOMMENDATIONS

The survey identified one new archaeological site, 38OR437, and one abandoned building, SHPO Site Number 0456. NSA recommends both of these resources as not eligible for the NRHP under all four criteria. Based on these findings, NSA recommends no further archaeological or architectural survey work within the project area or APE.

SIGNATURE:  **DATE:** December 1, 2022

REFERENCES CITED

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2001 *Intensive Archaeological and Architectural Survey for Proposed Access Road*. New South Associates, Stone Mountain, Georgia.

Fetters, Thomas T.

1990 *Logging Railroads of South Carolina*. Heimburger House, Forest Park, Illinois.

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1996 *Dorchester County, South Carolina, Historic Resources Survey*. Preservation Consultants, Charleston, South Carolina.

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NETR Online

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Figure 2.
Current Conditions in the Project Area

a. Wooded Area at Shovel
Test 645, Facing East

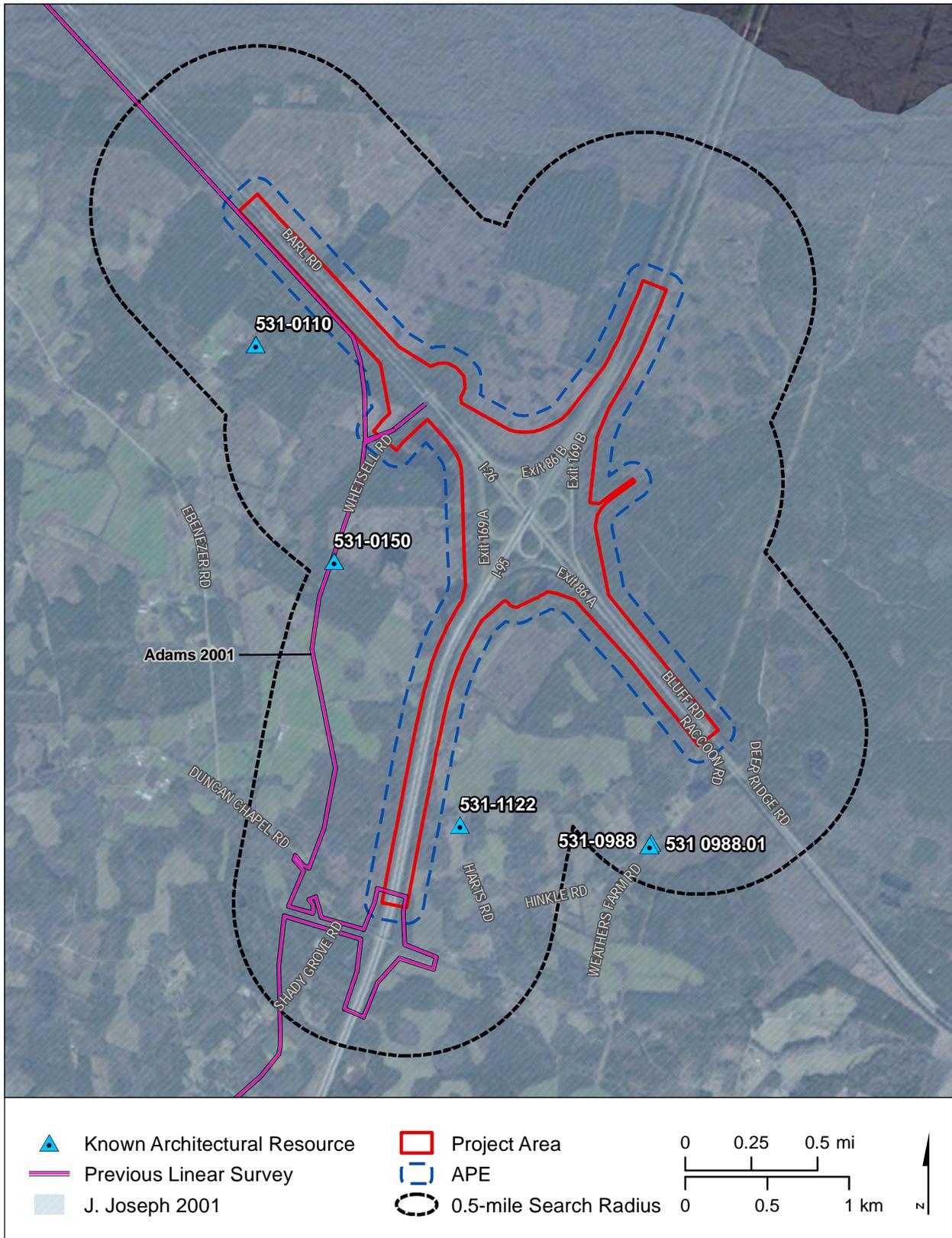


b. Wetlands at Shovel
Test 111, Facing North

c. Scrub Vegetation
at Shovel Test 103,
Facing South



Figure 3.
Previously Identified Cultural Resources and Previous Surveys within 0.5 Mile of the APE



Basemap: South Carolina Aerial Photography (2020)

Figure 4.
Archaeological Survey Results, 1 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 5.
Archaeological Survey Results, 2 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 6.
Archaeological Survey Results, 3 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 7.
 Archaeological Survey Results, 4 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 8.
Archaeological Survey Results, 5 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 9.
Archaeological Survey Results, 6 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 10.
Archaeological Survey Results, 7 of 11



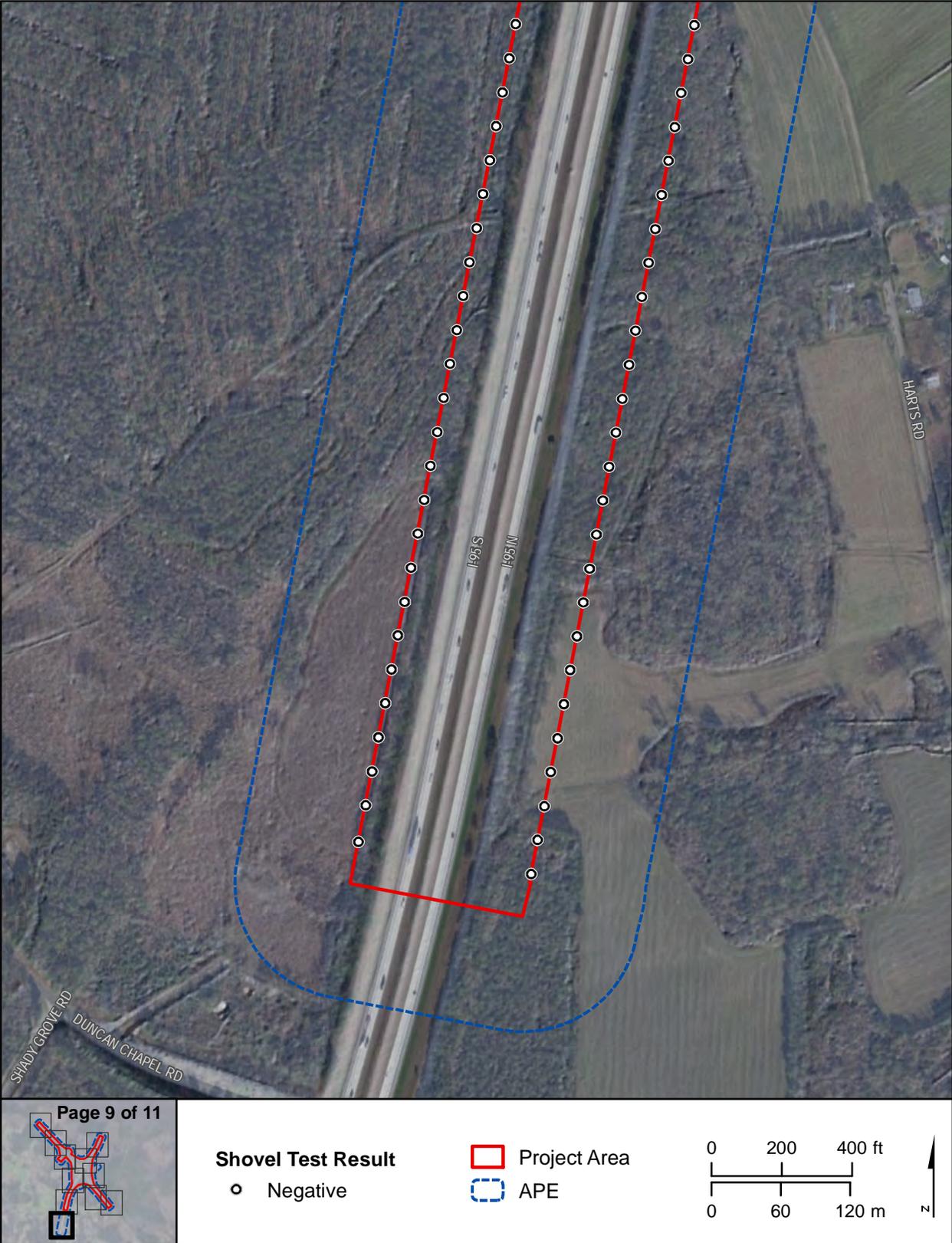
Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 11.
Archaeological Survey Results, 8 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 12.
Archaeological Survey Results, 9 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 13.
Archaeological Survey Results, 10 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 14.
 Archaeological Survey Results, 11 of 11



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP

Figure 15.
Representative Soil Profile





Figure 16.
Rail Bed, Facing West

Figure 17.
Site 38OR437, Soil Profiles



a. Soil Profile of Rail Bed



b. Soil Profile of
Area Adjacent
to Rail Bed

Figure 18.
Architectural Survey Results



Basemap: South Carolina Aerial Photography (2020) over Derived Hillshade from USGS 3DEP



a. Oblique, Facing East



b. Façade (Southwest Elevation), Facing Northeast



c. Oblique, Facing North



d. Rear Oblique, Facing South

Figure 19.
SHPO Site Number 0456 (1418 SR 38-28 [Ebenezer Road])