

SC-41 over Wando River
Bridge Replacement Project

Berkeley and Charleston County,
South Carolina

Hazardous Material / Waste
Site Assessment

April 27, 2005

Prepared For

CECS, Inc.
Columbia, South Carolina

ARM ENVIRONMENTAL
SERVICES, INC.

1210 1ST STREET SOUTH EXTENSION / COLUMBIA, SC 29209 / phone (803)783-3314 fax (803)783-2587

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Bridge Replacement Project
Berkeley and Charleston County,
South Carolina

Richland County,
South Carolina

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1.0 SCOPE OF SERVICES

Pursuant to authorization received from Civil Engineering Consulting Services, Inc. (CECS), ARM Environmental Services, Inc. (ARM) has conducted a hazardous material / waste site assessment of the SC-41 / Wando River bridge replacement study area, located in Charleston and Berkeley Counties, South Carolina. The study area consists of approximately 8,500 feet along SC-41, approximately 2,100 feet along S-33 (Clements Ferry Road) from SC-41, and 150 feet from the centerline of both roads, as indicated on the figures included in Appendix A.

The study area is referred to in the remainder of this report as the "Project Area". The purpose of this assessment was to identify any potential hazardous waste sites located in or adjacent to the Project Area, so that the location of such properties can be factored into the construction planning process. The site evaluation procedures conducted during the assessment are summarized below:

- Review of Federal and State lists of environmentally regulated sites, in an effort to identify those sites with documented contamination, and also those sites considered as potential sources of contamination;
- Interview of state regulatory Department of Health and Environmental Control (DHEC) personnel, and review of readily available file information for regulated sites located within the Project Area;
- Review of site background information, including aerial photographs and interviews of persons familiar with previous activities in the area;
- Physical inspection and photographic documentation of the site conditions in the Project Area to identify potential sources of contamination; and
- Development of a report summarizing the assessment findings and providing appropriate site location information.

The assessment findings and corresponding regulatory data are summarized on the following pages of this report. Site location maps, color photographs, and descriptions of the regulatory databases are included in the appendices.

2.0 SITE INSPECTION

On March 26, 2005 ARM personnel conducted a physical inspection of the Project Area, and also those conditions on properties located adjacent to the Project Area. The pertinent information collected during the site inspection process is summarized in the following sections.

2.1 Site Description

Site Location – The Project Area is located in portions of Charleston and Berkeley Counties, South Carolina as indicated on the Project Area site Location Map included as Figure 1 in Appendix A. The study area consists of approximately 8,500 feet along SC-41, approximately 2,100 feet along S-33 (Clements Ferry Road) from SC-41, and 150 feet from the centerline of both roads, as indicated on the figures included in Appendix A.

General Site Description – The Project Area is located in a primarily rural residential area near the Wando River. A limited amount of commercial marine development and land use also exists in the Project Area. The Project Area is located in an area with very low topographic relief, with the land surface sloping slightly toward the Wando River.

2.2 Aerial Photography

United States Department of Agriculture aerial photographs taken in 1941, 1949, 1957, 1963, 1969, 1975, and 1979 were reviewed at the University of South Carolina to further evaluate previous conditions in the vicinity of the Project Area. Additionally, USGS aerial photographs of the Project Area area, dated 2005, were reviewed. The conditions evident in the aerial photographs indicate that the Project Area has progressed from a primarily rural agricultural area (1943 - 1957 photographs) to a slightly more developed rural residential area with mixed use (later photographs).

2.3 Potential Environmental Hazards

The various environmental hazards typically identified in a corridor study area are described in the following paragraphs. The specific hazard sites identified during the assessment are listed in the Summary section of this report.

Underground Storage Tanks - The most prevalent source of potential site contamination typically encountered on roadway improvement projects is underground storage tanks (USTs). UST systems have a significant potential for leakage, depending primarily on the age, size and construction quality of the tank system. Leakage from UST systems often results in soil and groundwater contamination.

Above-Ground Storage Tanks - Above-ground storage tanks (ASTs) also present the potential for soil and groundwater contamination. However, depending on the size and condition of the tank, the extent of contamination is often limited to the shallow soils located adjacent to the tank.

Maintenance / Service Activities - Many of the materials handled by automotive maintenance / service businesses are considered hazardous. Site contamination routinely occurs from the storage, mishandling or disposal of such materials.

Industrial Processes - As with automotive maintenance / service activities, industrial activities often incorporate hazardous materials. The relatively high volume of materials handled, and potential on-site disposal of hazardous materials is of particular concern on industrial facilities.

Disposal Facilities - Solid waste disposal facilities or wastewater treatment facilities are often associated with subsurface contamination. Any waste disposal areas, including isolated areas on which waste materials have been dumped, are evaluated in order to determine whether a significant risk of adverse site impact is present

3.0 REGULATORY REVIEW

Federal and State regulatory databases were reviewed to further identify any known sources of contamination located on, or adjacent to the Project Area. The Federal records searched during this assessment included sites which handle or dispose of 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 pertinent regulatory information is summarized for each site.

The regulatory databases reviewed during this assessment are listed below and a description of the databases is included in the appendix of this report.

3.1 Federal Databases

CERCLIS	Comprehensive Environmental Response, Cleanup and Liability Information System
NPL	National Priorities List (Superfund)
RCRIS	Resource Conservation and Recovery Information System
FINDS	EPA Index System for Permitted Facilities
ERNS	Emergency Response Notification System

3.2 State Databases

SPL/SHWS	State Priority List Site / State Hazardous Waste Sites
RUST	Registered Underground Storage Tanks
LUST	Leaking Underground Storage Tank Incident Reports
SWF/LS	Solid Waste Facilities / Landfill Sites

The information collected during the review of the regulatory databases is provided in the following section, Summary of Findings.

3.3 Local Regulatory Interview

The DHEC Environmental Quality Control (EQC) – Trident district office was contacted regarding known environmental concerns in the Project Area. Mr. Rich Richter, a representative of the office, indicated that the boatyards located in the vicinity of the SC-41 bridge over the Wando River present an environmental concern due primarily to the utilization of potentially hazardous substances such as petroleum products, ASTs, and boat/ship repair activities that are commonly associated with them. He further stated that a primary concern is that in many cases boat owners are and/or have historically been allowed to work on their own boats in the boatyard storage areas. Mr. Richter indicated that inexperienced boat owners do not always follow safe handling procedures for potentially hazardous substances associated with their boats and/or the boat repairs. He stated that equipment failures and/or the mishandling of substances such as paint and petroleum products have resulted in adverse environmental impacts of differing magnitudes in the area(s) of the boatyards. Other than the environmental concerns associated with the boatyards in the area he is not aware of any other significant environmental concerns in the immediate vicinity of the Project Area.

4.0 SUMMARY OF FINDINGS

4.1 Documented Contamination Sites

Based on the outlined methods of investigation, the following sites with documented contamination were identified within the Project Area. The sites are listed by location from south to north. The locations of the sites are indicated on the Project Area Aerial Photograph included as Figure 2 in Appendix A.

- Detyen's Shipyard located at 1670 Dry-dock Avenue, in the Project Area on the Wando River and adjacent to the southwestern portion of the SC-41 bridge over Wando River.

General Site Information – Detyen's Shipyard encompasses over fifty acres of land on the Wando River both in and adjacent to the Project Area. A variety of ship repair infrastructure exists on the site including

heavy equipment such as cranes, trucks, and tractors, along with dry-docks, fully equipped workshops, and ASTs.

Regulatory Status – According to the regulatory data reviewed for this assessment, the regulatory status of the Detyen's Shipyard is limited to an entry in the Emergency Response Notification System (ERNS) database. ERNS is a database that records and stores information on reported releases of oil and hazardous substances. However, the regulatory data provided no information pertaining to any such release. As a result, a search of available ERNS incident reports provided through an EPA website was conducted for Berkeley County, region IV. However, no information pertaining to an incident near the Detyen's site was included in the database. An additional query of standard incident reports provided through a National Response Center (NRC) website returned details regarding three (3) fuel releases that occurred at/near the Detyen's site. The first incident, reported in May 1991, involved a fuel release identified only as a rainbow colored sheen encompassing approximately 1,300,000 square feet on the Wando River approximately 1,300 feet (~1/4 mile) south of the Wando River Bridge. No additional information regarding the release was available. A second incident reportedly involved approximately 10 gallons of fuel released into the water in October 1992 at Detyen's Shipyard due to an equipment failure. The incident report indicates that booms were deployed and sorbent pads were used to recover the material. The third incident, reported in June 2001, involved an additional sheen (unspecified size) observed on the Wando River adjacent to the Detyen's site. No other information regarding the incident was available.

Based on the information collected during this assessment, and the nature of business activities conducted at the site, it appears likely that onsite boat and ship repair activities have adversely affected the environmental conditions of the Detyen's Shipyard site. It should be noted that the current SC-41 right of way is topographically situated above the Detyen's site by several feet. As a result, it appears unlikely that any contamination present on the site would have the potential to significantly impact the environmental conditions of the current right of way. Additionally, the focus of repair activities conducted on the Detyen's

Shipyard facility appears to be set off of SC-41 by several hundred feet. However, a significant portion of the Detyen's site is present within the Project Area. Therefore, a moderate potential exists for adverse environmental impact to have occurred to the northern Detyen's Shipyard portion of the Project Area. This determination is primarily based upon the duration of time that Detyen's has operated at the site, the large magnitude of the repair activities conducted at the site, the presence of potentially hazardous substances at the site, and the existence of documented adverse environmental impacts at the site.

- Pantry #879, located at 2391 SC-41, across from Detyen's Shipyard adjacent to the southern portion of the SC-41 bridge.

General Site Information – The Pantry #879 site is a retail gasoline sales facility and convenience store located in the Project Area. An AST is present near the southwestern portion of the store building. The capacity of the AST appears to be approximately 500 gallons, and is utilized for the storage of kerosene. No stains or evidence of leakage from the AST was apparent during the site visit.

Regulatory Status – Leaking UST site, DHEC ID #13065. The site is registered with three (3) 10,000 gallon USTs that are utilized for the storage of gasoline. The site is responsible for a fuel release that was reported to DHEC in November 1991. Twelve (12) monitoring wells were installed on the site to assess the nature and severity of the release. A no further action (NFA) status was issued for the site by DHEC in March 2003. The existence of the NFA status for the site indicates that based on the available assessment data, DHEC will not require any additional monitoring or remediation of the site to be completed for the referenced fuel release. However, due to the presence of significant volumes of petroleum products stored on the site, and as a result of the former fuel release, it appears that the potential exists for subsurface petroleum based contamination to remain on the site.

A UST regulatory file review was conducted for the site at the DHEC Freedom Of Information (FOI) office in order to further evaluate the environmental conditions of the site. The file review revealed that several

rounds of environmental assessment have been completed by S&ME Environmental Services, Engineering & Services at the site to characterize subsurface conditions associated with the fuel release. Assessment results indicate that the highest concentrations of petroleum based contamination were detected at the site in the early 1990s, and have consistently declined since that time. The two most recent assessment reports, a July 2001 Tier II Assessment, and a December 2002 groundwater sampling assessment conducted by S&ME were reviewed at the FOI office.

The groundwater analytical data collected during both of the most recent assessments indicates that no petroleum based contamination was present at concentrations exceeding the Risk Based Screening Levels (RBSLs) established by DHEC. The most recent assessment (December 2002) conducted for the site indicates that very low concentrations of Contaminant of Concern (CoC) were detected in groundwater samples collected from three (3) monitoring wells located in and down gradient (south of) the source area. A CoC site map, which indicates the December 2002 CoC concentrations in the groundwater adjacent to each sampling location is included as Figure 3 in Appendix A.

The shallow soil data collected for the site during the assessments indicates that little to no shallow soil contamination was present in the source area. The most recent soil analytical data indicates that CoC detected in the shallow soils at the site was present at concentrations far below the applicable RBSLs.

If the acquisition of the site for the proposed right of way is required and the USTs are to be removed, DHEC will require additional assessment of the shallow soil and groundwater present near the UST basin(s) as part of the tank closure activities.

- Former DOT Wando Section Shed, located in the Project Area on the north side of SC-41, adjacent to the Wando River and the northern portion of the SC-41 bridge.

General Site Information – The Former DOT Section Shed consists of a partially paved lot with a chain link fence surrounding the paved portion of the site. No other improvements were apparent during the site inspection.

Regulatory Status – Leaking UST site, DHEC ID #01077. The site formerly utilized two (2) relatively small USTs for the storage of diesel fuel. A fuel release has been reported for the site, and the 1,000 gallon, and 560 gallon UST formerly present at the site were abandoned by removal. Mr. Wes Clymer, A DHEC UST Program representative, indicated that a limited shallow soil and groundwater assessment was conducted for the site (a single soil and groundwater sample were collected and analyzed) subsequent to the removal of the USTs. The results of the assessment indicated that contamination was not present at concentrations considered by DHEC to represent a significant threat to the health of humans or to the environment. As a result, an NFA status was issued for the site in May 1990. A file review was conducted for the site at the DHEC Freedom Of Information (FOI) office in order to further evaluate the subsurface conditions at the site. However, a representative of the FOI office, Mr. Robert Schneider, indicated that due to the NFA status of the site, the file had been purged and no longer exists.

Due to the former utilization of USTs at the site, and the resulting fuel release, the potential exists for subsurface petroleum based contamination to remain at the site. However, based on the available information, the potential for impact to the Project Area from the release is considered to be low.

- Former Wando Grocery, potentially located at approximately 2560 SC-41 in the Project Area, nearly adjacent to the northern portion of the SC-41 bridge.

General Site Information – The Wando Grocery Site formerly operated as a retail gasoline sales facility and convenience store. The exact location of the site is uncertain. However, it appears that the site may have been located at approximately 2560 SC-41, the former location of the Wando Restaurant and convenience store.

Regulatory Status – Leaking UST site, DHEC ID #14035. The Wando Grocery site is a former UST site and is responsible for a fuel release that was reported to DHEC in 1991. Five (5) USTs were formerly present at the location including a 1,000 gallon, two (2) 550 gallon, and (2) 6,000 gallon USTs. The DHEC project manager for the site, Konstantine Akhvlediani, indicated during a telephone interview that the site has received a relatively high DHEC priority ranking of 2BB, primarily due to the presence of drinking water supply wells adjacent to the site. Mr. Akhvlediani stated that a Tier I Assessment was conducted for the site in November 2000. Mr. Akhvlediani further stated that the Tier I assessment for the site indicated that the shallow soil and groundwater beneath the site has been impacted, that the contaminants are present at significantly elevated concentrations, and that additional assessment is required to define the extent and severity of the of the petroleum based contamination. Mr. Akhvlediani also indicated that the additional assessment is currently pending, but has not been completed.

A UST regulatory file review was conducted for the site at the DHEC FOI office in order to further evaluate the environmental conditions of the site. The referenced Tier I Assessment report completed for the site was reviewed at the FOI office. The assessment indicates that significantly elevated concentrations of petroleum based contamination is present in the shallow soil and groundwater on the site. However, an assessment map for the site indicates that the location of the facility is the intersection of SC-41 and Clements Ferry Road (See Cohen Gaskins Jr. site below). Upon further review, and consultation with the DHEC Project Manager for the site, it appears that the scope of work intended to assess to subsurface conditions of the former Wando Grocery site was conducted at

the wrong location. As a result, the assessment of the environmental conditions resulting from the fuel release at the former Wando Grocery site has not been completed.

During a recent telephone interview, the DHEC project manager for the site stated that the exact location of the site remains uncertain. Additionally, the regulatory data reviewed for this assessment only indicates that the location of the site is SC-41 in Wando. However, based on an inspection of the Project Area and the surrounding area, and on consideration of potential locations of the former Wando Grocery site, it appears likely that the site is located at approximately 2560 SC-41, at the former Wando Restaurant on convenience store location as indicated on Figure 2.

Based on the documentation of a previous fuel release on the Wando Grocery property, it appears that additional investigation of the utilization of USTs at the site and an evaluation of the subsurface environmental conditions of the site is warranted.

- Cohen Gaskins Jr. Parcel, located between SC-41 and Clements Ferry Road at the intersection of the two roads.

General Site Information – The Cohen Gaskins Parcel is mostly undeveloped. However, a short partially paved road is present on the western portion of the site near the intersection of SC-41 and Clements Ferry Road. The road connects SC-41 and Clements Ferry Road through the Gaskins property. A concrete feature present on the road appears very similar to a former petroleum product dispenser island (See Photograph 16). However, no other prominent features indicative of the former existence of a gasoline station on the property were apparent. Based on the presence of the potential former dispenser island on the property, it appears that the site formerly served as a retail gasoline sales facility. The DHEC UST databases were reviewed in order to further investigate the potential former presence of a service station at the site. Several registered UST sites are listed in the database for the Wando area, but were not observed during the Project Area inspection. Additionally, several UST sites detailed in the DHEC UST database that

are registered to Wando locations are described with nonspecific location details, or are referred to only as being present on SC-41.

During a file UST regulatory file review conducted at the DHEC FOI office pertaining to the Wando Grocery Site, it was apparent that an environmental assessment conducted in November of 2000 to evaluate the environmental impacts of the fuel release reported for the former Wando Grocery site was inadvertently conducted on the Cohen Gaskins Jr. parcel. The assessment results indicate that significantly elevated concentrations of petroleum based contamination in the shallow soil and groundwater on the site. A groundwater and soil CoC site map indicating the November 2000 CoC concentrations adjacent to each sampling location is included in Appendix A of this report as Figure 3 and Figure 4, respectively.

Based on the environmental conditions documented on the Cohn Gaskins Jr. parcel, the environmental conditions of the project area have been adversely impacted by petroleum based contamination. Additionally, the concentrations of CoC detected in the soil and groundwater during the assessment are significantly elevated above the RBSLs established by DHEC as a lower threshold for conditions that represent a significant risk to human health and to the environment.

Regulatory Status – No regulatory information pertaining to the Cohen Gaskins Jr. site was available during this assessment. As a result, it appears that the apparent utilization of USTs on the site was conducted without permit, or at a time when UST registration was not required.

4.2 Potential Contamination Sites

Based on the outlined methods of investigation, the following sites with the potential for contamination were identified within the Project Area. The locations of the sites are indicated on the Project Area Aerial Photograph included as Figure 2 in Appendix A.

- Carolina Boatyards, located at 2383 SC-41, adjacent to the south of the Detyen's Shipyard site in the Project Area.

General Site Information – The site is a boat storage, repair facility, and marine products retail center located near the southern portion of the SC-41 bridge. Boat owners are allowed to repair their own boats in the storage yard at the site. Additionally, an AST is present near the western portion of the main building approximately 250 feet north of the current SC-41 centerline. The AST appears to be used for the storage of oil and has a capacity of approximately 250 gallons. Stained soils are present near a portion of the AST. The presence of the discolored ground surface near the AST suggests that oil/fuel releases have occurred near the AST. However, due to the relatively small volume of the AST, and the limited extent of the staining, it appears likely that the environmental impacts are limited to the shallow soils beneath the AST. Based on the information collected during this assessment, the potential for the site to have negatively impacted the Project Area is considered to be low.

Regulatory Status – The Carolina Boatyard facility is not included in the regulatory data reviewed for this assessment. Therefore, no regulatory data exists.

- Wando River Boat Landing & Self Storage, located at ~2389 SC-41, adjacent to the west of the Pantry #879 Leaking UST Site.

General Site Information – The site is a boat storage / dry-dock facility located in the Project Area. Boat owners may be allowed to repair their own boats in the storage yard at the site. No ASTs, USTs, or potentially hazardous materials were observed at the site from SC-41 and from adjacent properties during the site inspection. As a result the site does

not appear to represent a significant environmental threat to the Project Area. However, it should be noted that the site is located immediately adjacent to the Pantry #879 Leaking UST site. The potential exists for the environmental condition of the Boat Landing property and consequently that portion of the Project Area to have been adversely impacted by petroleum-based contamination.

Regulatory Status – The Wando River boat Landing and Self Storage site is not included in the regulatory data reviewed for this assessment. Therefore, no regulatory data is included in this report.

- Residential properties present in and adjacent to the Project Area on SC-41 and Clements Ferry Road.

General Site Information – A heating oil AST was observed during the physical inspection of the Project Area located at a residence present on the western side of SC-41 in the northern portion of the Project Area. A sign near the driveway of the residence reads 1023, however; the residence is located at the intersection of SC-41 and Clements Ferry Road in the 2900 block of SC-41/Clements Ferry Road. The AST does not appear to hold greater than 500 gallons and is located approximately 150 feet from the centerline of SC-41. No evidence of leakage such as stained soils or stressed vegetation was apparent near the AST. Based on the presence of heating oil ASTs currently located and historically utilized in the general vicinity of the Project Area, the potential exists for additional ASTs and/or unregulated USTs to be present on other residential sites located in the Project Area.

Based on the relatively small size of the typical residential heating oil tanks, the potential for significant environmental impact to the Project Area is considered to be low. Several propane ASTs are also located near residences located in and near the Project Area. However, propane gas tanks are not considered to represent a significant threat to the environment.

Regulatory Status – Residential heating oil USTs/ASTs are unregulated.

- Rumph Brothers Marine, located at 2682 SC-41, in the northern extent of the Project Area.

General Site Information – Rumph Brothers Marine, formerly Rumph's Auto Services, an apparent boat/auto repair facility shares the premises with Suncoast Upholstery. An interview was conducted with Mr. Mike Rumph, co-owner of the facility, to further evaluate site-specific activities that may have the potential to impact the environmental conditions of the Project Area. Mr. Rumph stated that he did not store any hazardous materials onsite and is not aware of any other environmental concerns on the site. However, several 55 gallon drums were present near the SC-41 portion of the facility during the site visit. One or more of the drums appeared to contain motor oil or other potentially hazardous substances.

No evidence of adverse environmental impact from the storage containers or their contents was observed during the site visit. Based on the relatively small volumes (less than 250 gallons) of potentially hazardous substances apparent on the facility, the potential for impact to the Project Area is considered low.

Regulatory Status – The Rumph Facility is not included in the regulatory data reviewed for this assessment. Therefore, no regulatory data exists for the site.

- Electrical transformers present in the SC-41 / Clements Ferry Road portions of the Project Area.

The electrical equipment associated with the pole-mounted transformers present in the Project Area may potentially contain Polychlorinated Biphenyls (PCBs), a potential contaminant. The electrical equipment appears to be in good condition, and is unlikely to represent a threat of contamination to the Project Area. The transformers appear to belong to South Carolina Electric and Gas (SCE&G) and should be removed or relocated by SCE&G personnel if needed, prior to land clearing and/or construction activities.

Regulatory Status – The transformers are not included in the regulatory data reviewed for this assessment.

- Water Wells present in the SC-41 / Clements Ferry Road portions of the Project Area.

General Information – Several drinking water wells associated with single-family residences are located along the north side of the 2500 through 2900 blocks of SC-41 and may be encountered during the roadway improvement activities. Several drinking water supply wells were observed during the site inspection at residences located on the north side of the 2500 through 2900 blocks of SC-41. However, additional wells are likely to be located in other areas of the Project Area. Due to the presence of fuel releases in several portions of the Project Area, the potential exists for the wells to have been impacted by petroleum based contamination.

Regulatory Status – Any well that may be destroyed during the project should be disconnected and abandoned by a South Carolina Certified Well Driller in accordance with DHEC regulations R.61-71.

- Residential and commercial structures present in the Project Area.

General Information – Based on the apparent age of the buildings present in the Project Area, the potential exists for Asbestos Containing Materials (ACMs) to be present in the construction materials.

Regulatory Status – The potential presence of ACMs is a non-scope consideration of this assessment. As a result, no building materials were sampled or analyzed for the presence of ACMs. If the acquisition of buildings for the proposed right of way is required then an asbestos survey may be warranted. According to federal and state regulations, an asbestos survey of any commercial building materials to be renovated or demolished is required prior to renovation or demolition activities. If portions of the

• 5.0 SUMMARY

This report represents a substantial review of the previous and current conditions of the Project Area in reference to the presence of documented and potential hazardous material sites.

Based on the findings of this assessment, there is a significant potential that the current and/or proposed right of way area has been impacted by contaminants from the following sites:

- Detyens Shipyard
- Pantry #879
- Former Wando Grocery
- Cohen Gaskins, Jr. Parcel

Prior to the start-up of roadway improvement activities, it would be warranted to conduct Phase II assessments of the right-of-way areas adjacent to these sites. The Phase II assessments should be designed to evaluate the potential presence of soil and / or groundwater contamination for each of the referenced sites, and also to investigate the potential presence of USTs and ACMs, in the event that any potential sites of concern will be acquired. The determination of areas which warrant Phase II Assessment services should be site specific, based on hydrogeologic conditions, distance from specific environmental concerns, and other relative factors. Specific Phase II Assessment recommendations can be formulated upon review of preliminary engineering plans.

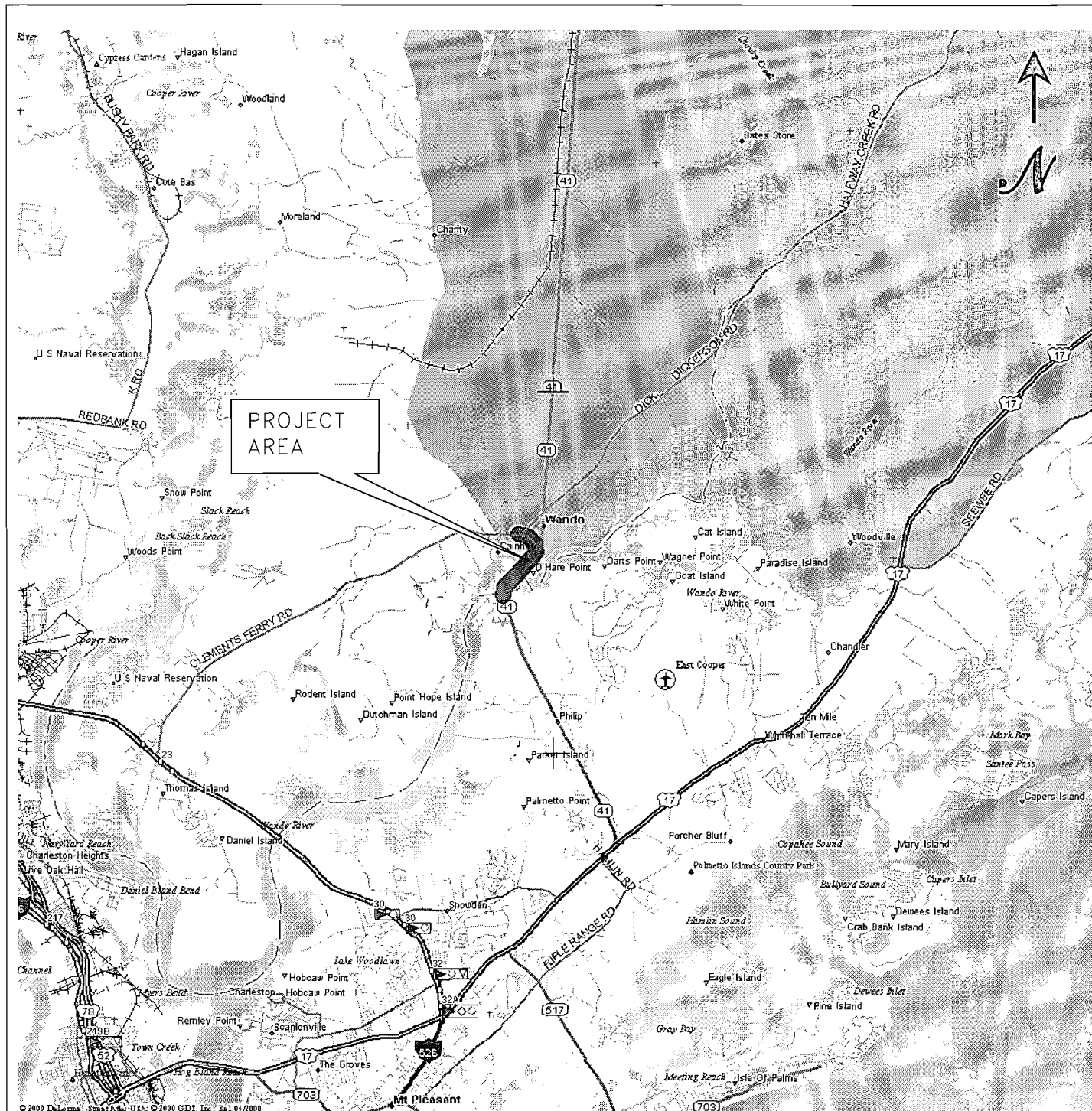
No other sites with the potential to adversely impact the Project Area were identified within the scope of this assessment.

6.0 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.

Appendix A

Site Location Maps

**Project**

Hazardous Material / Waste Site Assessment
SC-41 over Wando River Bridge Replacement
Charleston / Berkeley County, South Carolina

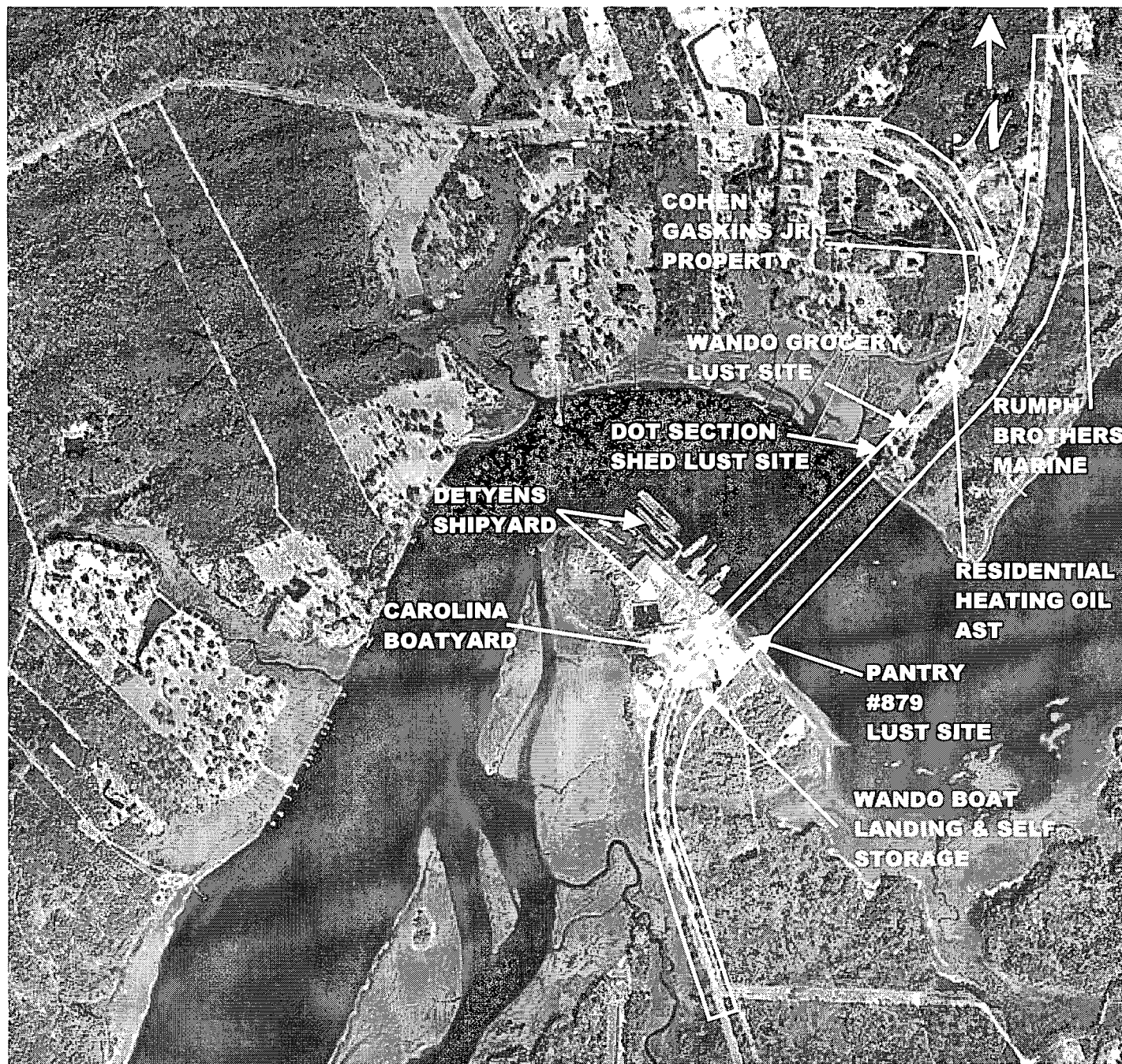
Scale

1 inch \cong 2.5 miles

Date

April 2005

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Project

Hazardous Material / Waste Site Assessment
SC-41 over Wando River Bridge Replacement
Charleston / Berkeley County, South Carolina

Figure 2

Project Area Aerial Photograph
Showing Potential Sites of Concern
USGS Aerial Photograph, 2000

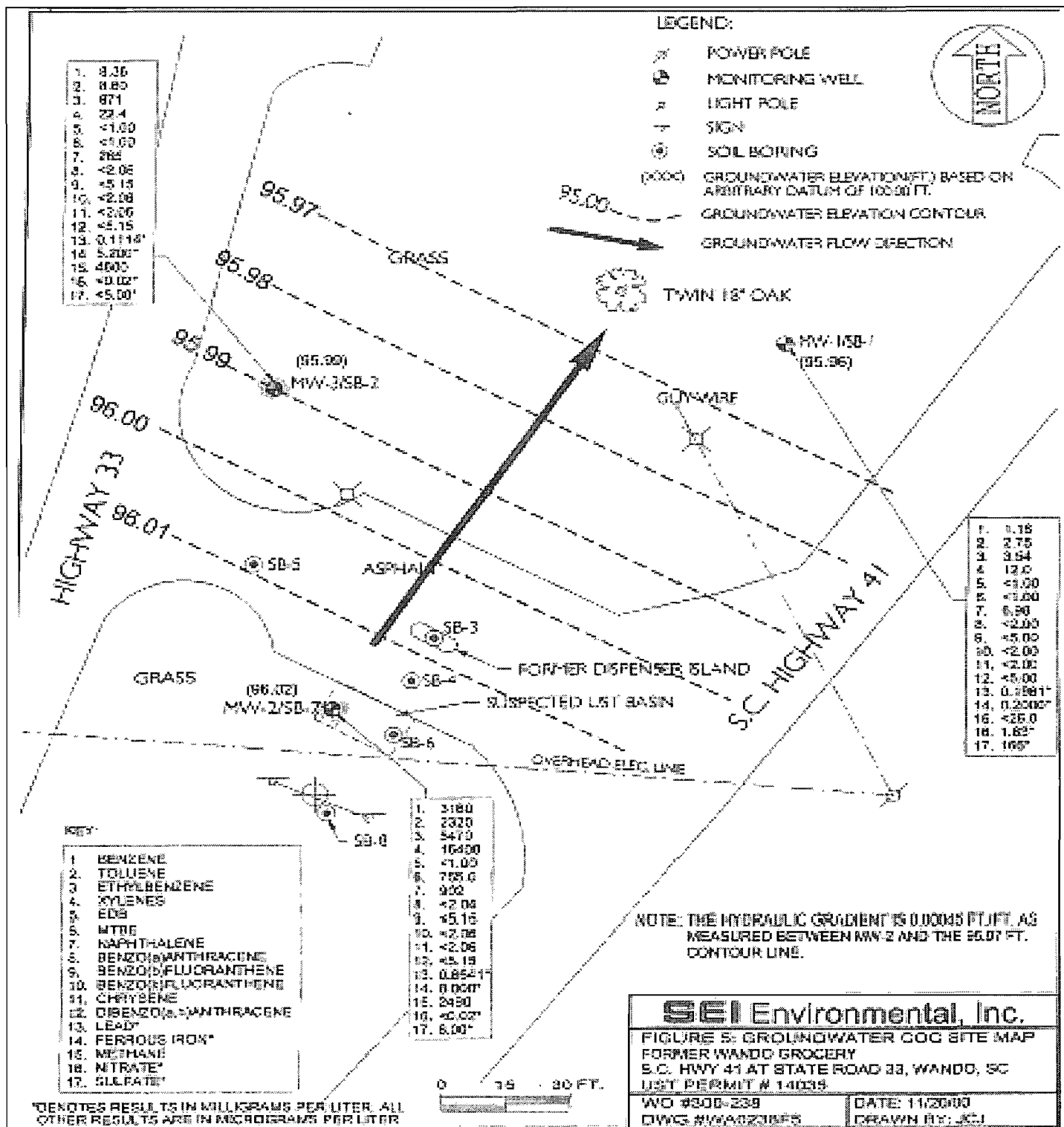
Scale

1 inch \cong 1,200 feet

Date

April 2005

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Project

Hazardous Material / Waste Site Assessment
 SC-41 over Wando River Bridge Replacement
 Charleston / Berkeley County, South Carolina

Figure 3

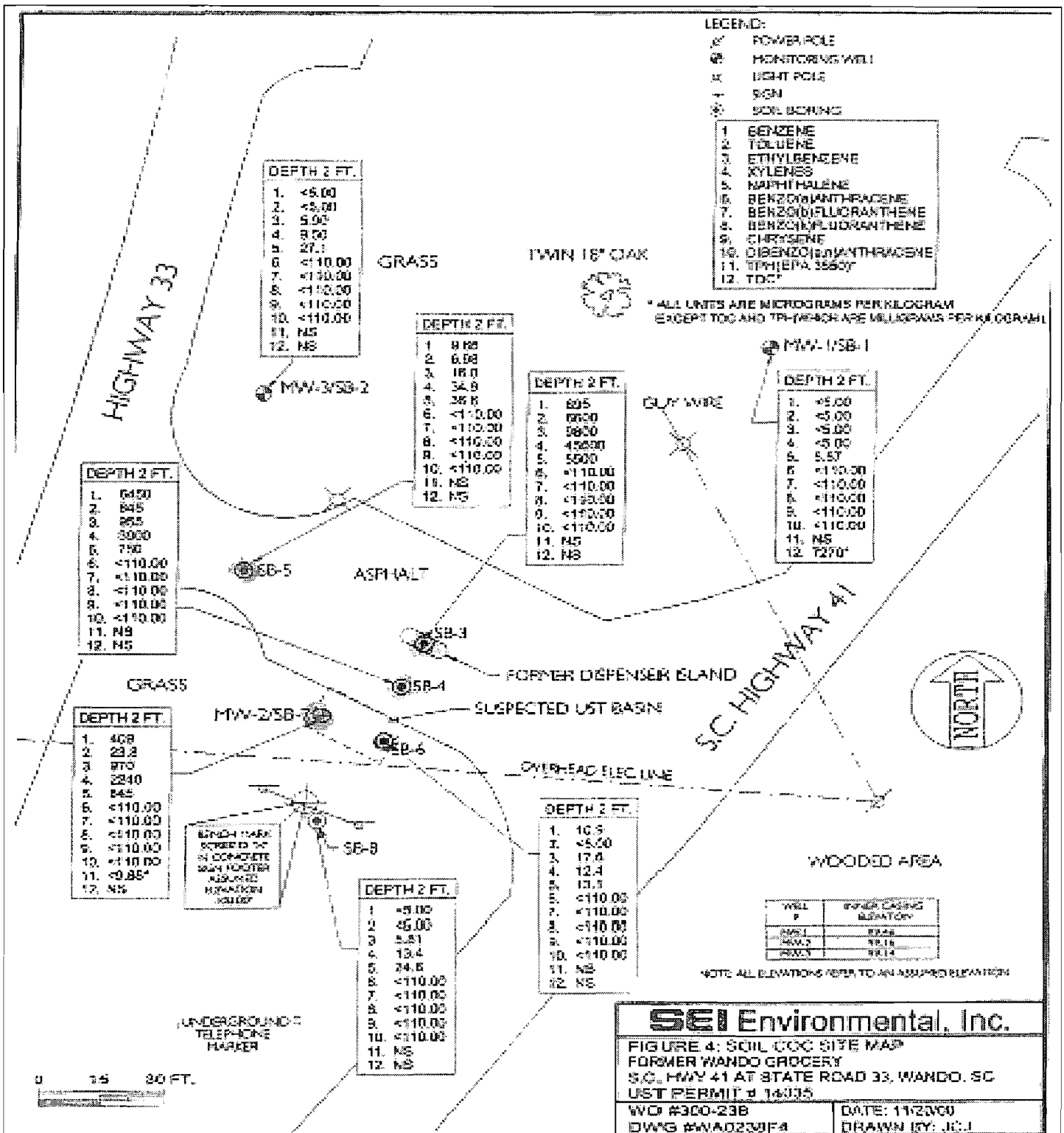
Cohen Gaskins Jr. Groundwater CoC Site Map
 Derived from a 11/2000 figure by SEI, Inc.

Reference

Date

April 2005

ARM ENVIRONMENTAL
 SERVICES, INC.



Project

Hazardous Material / Waste Site Assessment
 SC-41 over Wando River Bridge Replacement
 Charleston / Berkeley County, South Carolina

Figure 4

Cohen Gaskins Jr. Soil CoC Site Map
 Derived from a 11/2000 figure by SEI, Inc.

Reference

Date

April 2005

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Appendix B

Descriptions of Regulatory Databases



**EDR® Environmental
Data Resources Inc**

The EDR Radius Map™ Report

**SC 41 Over Wando River
SC 41
Wando, SC 29492**

Inquiry Number: 01277228.1r

September 28, 2004

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

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: 04/27/04

Date of Data Arrival at EDR: 05/04/04

Date Made Active at EDR: 05/21/04

Elapsed ASTM days: 17

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/04/04

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-665-6659

EPA Region 3
Telephone 215-614-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 04/27/04

Date of Data Arrival at EDR: 05/04/04

Date Made Active at EDR: 05/21/04

Elapsed ASTM days: 17

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/04/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/26/04

Date of Data Arrival at EDR: 03/22/04

Date Made Active at EDR: 04/02/04

Elapsed ASTM days: 11

Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/22/04

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/26/04
 Date Made Active at EDR: 04/02/04
 Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/22/04
 Elapsed ASTM days: 11
 Date of Last EDR Contact: 03/22/04

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/04
 Date Made Active at EDR: 04/15/04
 Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/26/04
 Elapsed ASTM days: 21
 Date of Last EDR Contact: 03/08/04

RCRIS: Resource Conservation and Recovery Information System

Source: EPA

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS 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). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site 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: 04/13/04
 Date Made Active at EDR: 05/13/04
 Database Release Frequency: Varies

Date of Data Arrival at EDR: 04/20/04
 Elapsed ASTM days: 23
 Date of Last EDR Contact: 04/20/04

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

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

Date of Government Version: 12/31/03
 Date Made Active at EDR: 03/12/04
 Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/26/04
 Elapsed ASTM days: 46
 Date of Last EDR Contact: 04/26/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

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: 12/01/01
 Database Release Frequency: Biennially

Date of Last EDR Contact: 03/16/04
 Date of Next Scheduled EDR Contact: 06/14/04

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

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: N/A
 Database Release Frequency: Varies

Date of Last EDR Contact: N/A
 Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

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: 01/09/04

Database Release Frequency: Annually

Date of Last EDR Contact: 04/05/04

Date of Next Scheduled EDR Contact: 07/05/04

DELISTED NPL: National Priority List Deletions

Source: EPA

Telephone: N/A

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: 04/27/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/04/04

Date of Next Scheduled EDR Contact: 08/02/04

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: N/A

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: 04/08/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/06/04

Date of Next Scheduled EDR Contact: 07/05/04

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4555

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

Date of Government Version: 02/17/04

Database Release Frequency: Annually

Date of Last EDR Contact: 04/20/04

Date of Next Scheduled EDR Contact: 07/19/04

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

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: 01/15/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/06/04

Date of Next Scheduled EDR Contact: 07/05/04

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 03/05/04

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/30/04

Date of Next Scheduled EDR Contact: 06/28/04

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (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 receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/12/04
Date of Next Scheduled EDR Contact: 05/24/04

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-564-3887
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: 12/30/03
Database Release Frequency: Annually

Date of Last EDR Contact: 05/12/04
Date of Next Scheduled EDR Contact: 08/09/04

DOD: Department of Defense Sites

Source: USGS
Telephone: 703-692-8801

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: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/02/04
Date of Next Scheduled EDR Contact: 05/10/04

STORMWATER: Storm Water General Permits

Source: Environmental Protection Agency
Telephone: 202-564-0746

A listing of all facilities with Storm Water General Permits.

Date of Government Version: N/A
Database Release Frequency: Quarterly

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

INDIAN RESERV: Indian Reservations

Source: USGS
Telephone: 202-208-3710

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: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/02/04
Date of Next Scheduled EDR Contact: 05/10/04

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities-especially those without EPA Brownfields Assessment Demonstration Pilots-minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/14/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/15/04
Date of Next Scheduled EDR Contact: 06/14/04

RMP: Risk Management Plans

Source: Environmental Protection Agency
Telephone: 202-564-8600

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Database Release Frequency: N/A

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285

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: 10/01/03
Database Release Frequency: Varies

Date of Last EDR Contact: 04/26/04
Date of Next Scheduled EDR Contact: 07/05/04

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

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: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-566-0250

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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 03/23/04
Date of Next Scheduled EDR Contact: 06/21/04

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

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: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 03/06/04
Date of Next Scheduled EDR Contact: 06/07/04

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

Source: EPA
Telephone: 202-564-2501

Date of Government Version: 04/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/22/04
Date of Next Scheduled EDR Contact: 06/21/04

SSTS: Section 7 Tracking Systems

Source: EPA
Telephone: 202-564-5008

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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/04
Date of Next Scheduled EDR Contact: 07/19/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

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: 04/13/04

Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/22/04

Date of Next Scheduled EDR Contact: 06/21/04

STATE OF SOUTH CAROLINA ASTM STANDARD RECORDS

SHWS: State Priority List Sites

Source: Department of Health and Environmental Control

Telephone: 803-734-5376

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: 04/05/04

Date Made Active at EDR: 04/30/04

Database Release Frequency: Annually

Date of Data Arrival at EDR: 04/09/04

Elapsed ASTM days: 21

Date of Last EDR Contact: 04/06/04

SWF/LF: Permitted Landfills List

Source: Department of Health and Environmental Control

Telephone: 803-734-5165

Source: Department of Health and Environmental Control, GIS Section

Telephone: 803-896-4084

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: 03/01/04

Date Made Active at EDR: 05/26/04

Database Release Frequency: Varies

Date of Data Arrival at EDR: 04/14/04

Elapsed ASTM days: 42

Date of Last EDR Contact: 04/14/04

LUST: Leaking Underground Storage Tank List

Source: Department of Health and Environmental Control

Telephone: 803-898-4360

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: 03/10/04

Date Made Active at EDR: 04/06/04

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/16/04

Elapsed ASTM days: 21

Date of Last EDR Contact: 02/23/04

UST: Comprehensive Underground Storage Tanks

Source: Department of Health and Environmental Control

Telephone: 803-898-4360

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: 03/10/04

Date Made Active at EDR: 04/07/04

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/16/04

Elapsed ASTM days: 22

Date of Last EDR Contact: 02/23/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Cleanup Sites

Source: Department of Health and Environmental Control
Telephone: N/A

Date of Government Version: 03/26/04
Date Made Active at EDR: 04/14/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/26/04
Elapsed ASTM days: 19
Date of Last EDR Contact: 04/12/04

STATE OF SOUTH CAROLINA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Storage Tank List

Source: Department of Health and Environmental Control
Telephone: 803-898-4350
Registered Aboveground Storage Tanks.

Date of Government Version: 04/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/30/04
Date of Next Scheduled EDR Contact: 06/28/04

SPILLS: Spill List

Source: Department of Health and Environmental Control
Telephone: 803-898-4111

Date of Government Version: 11/19/03
Database Release Frequency: Varies

Date of Last EDR Contact: 03/30/04
Date of Next Scheduled EDR Contact: 06/28/04

GWCI: Groundwater Contamination Inventory

Source: Department of Health and Environmental Control
Telephone: 803-898-3798

An inventory of all groundwater contamination cases in the state.

Date of Government Version: 07/01/03
Database Release Frequency: Annually

Date of Last EDR Contact: 04/26/04
Date of Next Scheduled EDR Contact: 07/26/04

DRYCLEANERS: Drycleaner Database

Source: Department of Health & Environmental Control
Telephone: 803-898-3882

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

Date of Government Version: 11/01/02
Database Release Frequency: Varies

Date of Last EDR Contact: 03/02/04
Date of Next Scheduled EDR Contact: 05/31/04

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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Appendix C

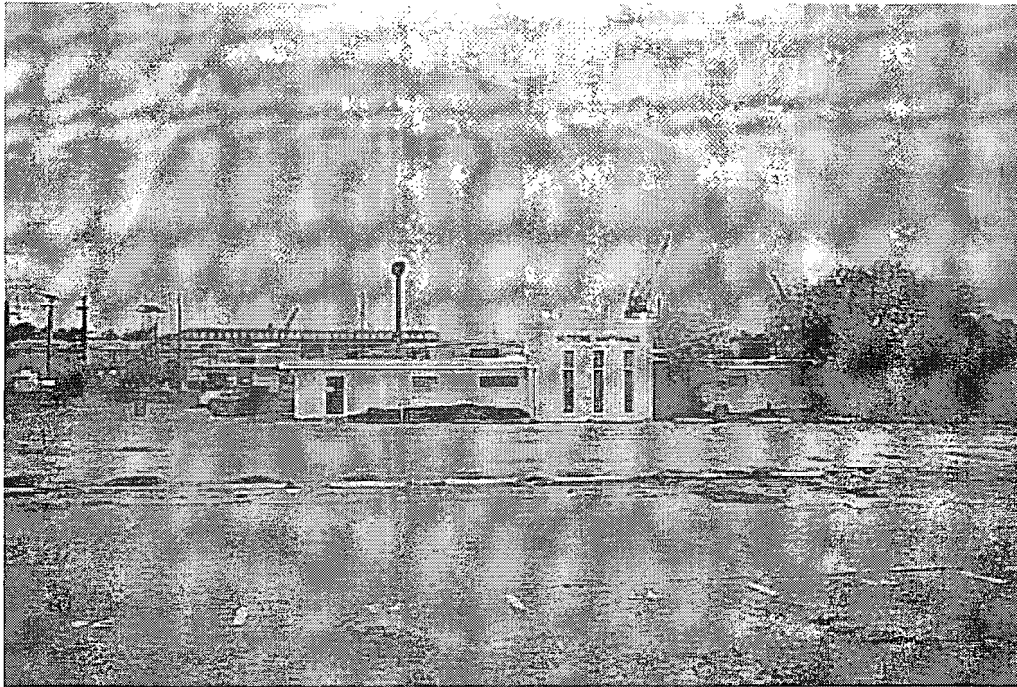
Site Photographs



Photograph 1 – Typical view of the northern Clements Ferry Road portion of the Project Area facing east toward the SC-41 / Clements Ferry Road intersection.



Photograph 2 – Typical view of the southern approach to the SC-41 bridge over the Wando River as seen facing north.



Photograph 3 – View of the portion of the Detyen's Shipyard facility visible from the elevated position of the current SC-41 right of way.



Photograph 4 – View of the Pantry #879 UST site present near the southern portion of the SC-41 bridge over the Wando River. A ~500 Kerosene AST is visible in the right center portion of the photograph.



Photograph 5 – View of the former DOT Section Shed UST site present near the northern portion of the SC-41 bridge over the Wando River



Photograph 6 – View of the likely former Wando Grocery leaking UST site present near the northern portion of the SC-41 bridge.