

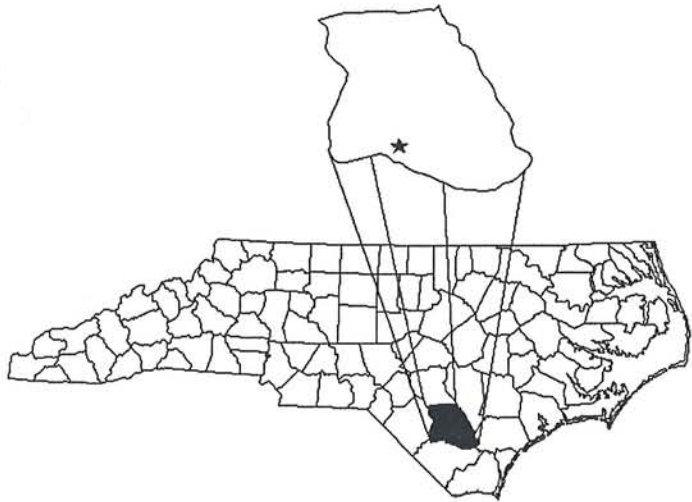
LANDFILL SITE ASSESSMENT
Bladen County Landfill
NCD980502819
Bladen County
HURRICANE LANDFILL ASSESSMENT PROJECT
STATE OF NORTH CAROLINA
CONTRACT NO. N200016
S&ME PROJECT NO. 1040-00-335A
VOLUME I OF VII

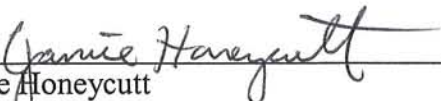
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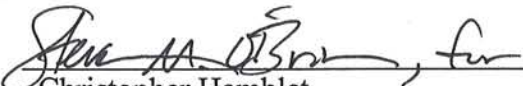
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October 25, 2002



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DATA SUMMARY SHEET

Site Name: Bladen County Landfill
Site Identification Number: NCD980502819
County: Bladen County
Date Reported: October 25, 2002
Location: U.S. Highway 701 South
 Elizabethtown, NC
Site Entrance Coordinates: Northing NAD83(m): 95264
 Easting NAD83 (m): 644873
Landfill Size: Approximately 37-Acres
Date Opened: 1972
Date Closed: 1994
Directions: From Elizabethtown, take U.S. Hwy. 701 South.
 Proceed approximately 1.1 miles on U.S. Hwy.
 701. Turn left onto an unmarked, gated driveway.
 The landfill is approximately 400 ft. to the east
 along the access road.

OWNERSHIP INFORMATION

Owner Name	Address	City	State	Zip	Phone
Bladen County	P.O. Box 2350	Elizabethtown	NC	28337	910-862-6726

WELL AND SURFACE WATER INTAKE SURVEY SUMMARY

Well Number	Northing (NAD83 meters)	Easting (NAD83 meters)	Owner's Name	Street Address	Type of Well	Distance and directions from site
No potable water wells or surface water intakes were identified within the search radius						

AREAS OF CONCERN SUMMARY

AOC Number	Northing Central Point Coordinate (NAD83 meters)	Easting Central Point Coordinate (NAD83 meters)	Description	Estimated Size
1	Public Record Review		Site is listed as an IHSI site.	N/A
2	Data Not Available		Browns Creek is located approximately 300 feet north of the site.	Undetermined
3	Data Not Available		A wetland area of Brown's Creek is located 500 feet north of the site.	Undetermined
4	95202	644857	Unnamed tributary of Brown's Creek adjoins site to the southwest.	Approximately five feet wide
5	95150	644934	Three small areas of ponded water are located on site.	Each approximately 1/10 of an acre

AOC Number	Northing Central Point Coordinate (NAD83 meters)	Easting Central Point Coordinate (NAD83 meters)	Description	Estimated Size
6	95026	645071	Drainage ditch traverses the site which is filled with water.	Approximately six to ten feet wide
7	95207	645075	Former garage where the landfill equipment was serviced is located on the site.	Undetermined
8	95207	645075	55-gallon drums are located within the garage, some are filled with waste oil.	Approximately 20 x 20 foot area
9	95214	645061	An empty AST is located north of the former garage. A small stained area is located on a concrete slab at the south end of the tank	Approximately 250-gallons

1.0 INTRODUCTION

This study was undertaken on behalf of the North Carolina Department of Environment and Natural Resources (NCDENR), Superfund Section, Inactive Hazardous Sites Branch (hereafter referred to as the Branch). The purpose of this study was to provide the Branch with information regarding the Bladen County Landfill, a closed landfill in Bladen County, in order that the Branch may identify and evaluate potential threats to public health and/or the environment presented by this site. Such conditions may have resulted from or have been exacerbated by floodwaters or other causes related to Hurricane Floyd in September 1999. This report describes the procedures and results of this assessment including but not limited to:

- 1) obtaining the location and ownership information of the Bladen County Landfill;
- 2) describing current site use and land use within the search radius; and,
- 3) identifying Areas-of-Concern that may merit further evaluation by NCDENR to assess the need for possible corrective actions.

1.1 Methods

The methods used for this assessment of the Bladen County Landfill are described in detail in the document *Site Assessment Plan, Hurricane Landfill Assessment Project, State of North Carolina Contract No. N200016* prepared by S&ME and dated July 14, 2000 (hereafter referred to as the SAP). In accordance with the SAP criteria, the site is defined as the limits of the waste disposal area, or if the waste disposal area cannot be determined, then the site is defined as the property boundary where the waste disposal area is reported to be located. The search radius is defined as 1,000 feet from the site boundaries.

In summary, S&ME performed the following tasks to assess the site:

Task 1 –Identify and confirm the site location. This task involved review of aerial photographs and maps, and other documents, as well as interviewing people potentially knowledgeable of the site. Once identified, the specific location was confirmed by physical observation in the field.

Task 2 - Review available public records. S&ME searched for and reviewed public records regarding the Bladen County Landfill to identify current ownership of the site, to collect readily available historical and current information about the site, and to review public records for other sites within the search radius that are listed in published environmental databases.

Task 3 - Interview people knowledgeable of the site. S&ME attempted to contact and interview owners, neighbors, and local public officials to gather knowledge regarding the historical aspects of the site's operational history and to obtain current environmental-related information about the site. During our interviews, S&ME also asked people knowledgeable of the site if the site was flooded by Hurricane Floyd or other storm events.

Task 4 - Conduct an on-site reconnaissance of the property and a non-invasive reconnaissance of adjacent properties within the search radius. S&ME performed this task to visually identify and assess Areas-of-Concern (AOCs), current site usage, site and vicinity characteristics, surface water bodies, surface water intakes, and water supply wells.

As defined in the SAP, AOCs included, but were not limited to, the following conditions in the waste disposal area:

- Slope failure
- Excessive erosion
- Leachate seeps
- Significant settling
- Standing water
- Stressed vegetation
- Human activity
- Stained soil
- Noticeable odors

S&ME personnel also looked for visual evidence of water inundation that would indicate whether the site may have been flooded.

During the assessment, a differentially corrected global positioning system (dGPS) receiver was used to collect the northing and easting coordinates of notable physical features. The coordinate format used in this report is the North American Datum of 1983 (NAD83), North Carolina State Plane Coordinate System in meters, as requested by the Branch.

1.2 Limitations

The findings of the work tasks detailed in the SAP may be limited due to the lack of available public records regarding the site; insufficient information in available public records; difficulty in finding the actual location of the waste deposits, and the presence of physical obstructions,

such as paved areas and dense vegetation that may limit access and/or visual observations.

Based on the tasks described above, the limitations for this site are as follows:

- S&ME collected coordinate data for AOCs, and site entrance locations using a dGPS receiver. The coordinate data were not obtained by a registered land surveyor and are not intended to represent surveyed locations for use in legal documents (e.g., deeds, tax maps, property maps, etc.) or other official purposes, but rather the coordinates are intended for general information purposes only and not be used as surveyed data points.
- S&ME obtained ownership information from the Bladen County tax office and register of deeds office. According to personnel at the offices, the site property is owned by Bladen County. No tax information or recorded deed was available for the site property.

2.0 SITE IDENTIFICATION AND LOCATION

Initial information on the identification and location of the Bladen County Landfill was taken from the "Old Landfill" database provided to S&ME by the Branch. The site's estimated latitude and longitude coordinates identified in the database were plotted on a digitized U. S. Geological Survey (USGS) Topographic Map. Using this preliminary information, S&ME reviewed files from the NCDENR's Solid Waste Section to obtain additional information about the site and its location.

Attempts were made to obtain aerial photographs of the site taken during the time that the site was operational, to better approximate the site's location and limits of operation. A recent aerial photograph was also sought to show the site's current condition and vicinity characteristics and land use within the search radius. The following potential sources of aerial photographs were queried: the USGS's digital aerial photograph database maintained by Microsoft® on the internet at <http://terraserver.microsoft.com>; the U. S. Department of Agriculture's Natural Resources Conservation Service (USDA-NRCS) office; and appropriate Bladen County tax and planning offices. Copies of those aerial photographs obtained and reviewed for this study are included as Appendix I.

To verify the landfill location as identified in NCDENR's files and as observed in the aerial photographs, S&ME made a preliminary non-entry site visit. During this visit, visual observations were made of the general site area and its vicinity, which are shown on Figure 1. Local residents were contacted as available for additional relevant information. The results of the initial site visit are further described in Section 5.

Based on the methods for identifying and verifying the site's location as described above, the following information relating to the closed landfill was determined:

Site Name: Bladen County Landfill
Site Identification Number: NCD980502819
Site's Address: U.S. Highway 701 South
Elizabethtown, NC
County: Bladen County
Coordinates of Site's Entrance: Northing NAD83(m): 95264
Easting NAD83 (m): 644873
Landfill Size: Approximately 37-Acres
Date Opened: 1972
Date Closed: 1994
Directions to the Site: From Elizabethtown, take U.S. Hwy. 701 South.
Proceed approximately 1.1 miles on U.S. Hwy.
701. Turn left onto an unmarked, gated driveway.
The landfill is approximately 400 ft. to the east
along the access road.

The directions listed in the Database are accurately stated. Both the landfill and property size are stated in the Database as being 12 acres. Based on our site reconnaissance and an interview with a Bladen County representative, the landfill is actually approximately 37 acres in area and the property is approximately 40 acres. No opening date for the landfill is listed in the Database and the closing date is shown as 1990. According to comments by Mr. Ikie Guyton, with NCDENR, the landfill began operation in 1972 and closed in 1994.

For the purposes of this report, the site is defined as the approximate limits of the fill area. The approximate site area and the search radius are shown on Figure 2. The following sections of this report describe details of the public records review (Section 3.0), ownership information search (Section 4.0), initial site visit (Section 5.0), and site reconnaissance (Section 6.0). Section 7.0 summarizes our findings and observations.

3.0 PUBLIC RECORD REVIEW

Once the site's location was verified, S&ME proceeded with a review of readily available NCDENR public records. This public record review served to identify the site's owner and to collect copies of public documents that may be relevant for evaluating the site. To identify available files at NCDENR's central or regional offices, S&ME reviewed several North Carolina (NC) and U.S. Environmental Protection Agency (USEPA) regulatory databases. These specific database listings were obtained from VISTA Information Solutions, Inc. (VISTA) of San Diego, California for the Bladen County Landfill as well as for possible sites/facilities within the search radius. A copy of the VISTA report is provided as Appendix II. The review of state and federal database listings and informational sources included, but was not limited to, the following:

- USEPA National Priorities List (NPL or Superfund site list);
- USEPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS);
- NC Inactive Hazardous Waste Site's State Priority List (SPL) and the Inactive Hazardous Sites Inventory (IHSI);
- NC Waste Facilities/Landfill Sites (SWF/LS) and the Branch's "Old Landfill" database;
- Lists of facilities that have been issued identification numbers by the USEPA under the Resource Conservation and Recovery Act (RCRA) and associated databases;
- USEPA Emergency Response Notification System (ERNS);
- USEPA Toxic Release Inventory System (TRIS);
- National Pollutant Discharge and Elimination System (NPDES) permits;
- NC Air Quality permits;
- NC Underground Storage Tank (UST) State Trust Fund database;
- NC Incident Management database; and,
- NC Registered Underground Storage Tank database.

S&ME requested access to review available public files for any sites and facilities within the search radius that were listed on these databases. S&ME also contacted local government agencies (e.g., county/city agencies, planners, health departments, utility agencies, etc.) to obtain information regarding the site's history and current status. Information sought from these agencies included current or recent drinking water sources and problems, availability of utilities (municipal water supplies, community well systems, sewer services, etc.) within the search radius, and waste disposal history.

The results of the database review and information obtained from government agency files are presented in Sections 3.1 through 3.5. Copies of records pertinent to the site are included in Appendix III.

3.1 Federal/NCDENR Files

The Bladen County Landfill was listed in the IHSI, although the site was removed from the EPA's CERCLIS Inventory in 1995. No additional sites within the search radius were listed in the IHSI.

A record of a 1973 telephone call to the North Carolina Pollution Hotline by an Elizabethtown resident, Mr. David Cross, and a follow up report by Mr. Terry F. Dover, the District Sanitarian, reference an oil-like film found in the dam area of Cross Pond, located one-mile downstream from the landfill. The pond's owner, Mr. Cross, thought the film might be related to the landfill. However, a nonsampling investigation of the area by NCDENR and county health officials indicated that a more likely source was overflow from an upstream slaughterhouse waste lagoon.

In December 1990, a Screening Site Inspection, Phase II report was prepared by NUS Corporation regarding the Bladen County Landfill. According to the report, the Bladen County Landfill began operation in 1972. During its operation, the landfill accepted mostly municipal wastes: however, some industrial wastes were also accepted at the landfill. The wastes, deposited in trenches excavated to an approximate depth of 10 to 11 feet, were covered with 18 to 24 inches of silty clay. Fly ash from Cogentrics, a utility company that burns coal to generate electricity, had been disposed of at the landfill since 1986. In 1987, approximately 500 tons of

fly ash were disposed at the landfill weekly. Five tons of sludge from a wastewater treatment plant located at the Cogentrics facility was also disposed at the site. According to the report, laboratory analysis of the sludge found no chemical contaminants present above RCRA Extraction Procedure (EP) toxicity levels. The Cape Fear Chemical Company, a manufacturer of lawn and garden products, disposed of trash, paper, split bags, and cans at the landfill. Cape Craftsman, a furniture manufacturer, disposed of waste lacquer dust, wood debris, and picture frames.

According to a revised Site Inspection Prioritization Report prepared by Dynamac Corporation, the North Carolina Solid and Hazardous Waste Management Branch had monitored groundwater and nearby surface water quality at the landfill since at least 1979. In May 1986, a Notice of Violation was issued to the landfill due to the presence of low pH, high conductivity, and high total dissolved solids in groundwater samples collected from one of the first three groundwater monitoring wells installed at the site. Six additional wells were installed and sampled in 1986 by Soil and Material Engineers, Inc. (S&ME, Inc.) Analysis of groundwater samples at these wells found concentrations of iron, manganese, and total dissolved solids that were reported to be consistent with naturally occurring conditions in the area. The initial findings of low pH, high conductivity, and high total dissolved solids was concluded by S&ME, Inc. to be due to improper well construction of the first three wells.

S&ME, Inc. has conducted semi-annual sampling of groundwater and surface water at the landfill since 1995. The most recent sampling event at the landfill was in December 2001. In May 2000, Mr. Larry Rose, with the North Carolina Division of Waste Management, granted permission for two of the nine groundwater monitoring wells and the two surface water sampling points to be eliminated from the sampling requirements due to the historical absence of constituents in the samples. Laboratory analysis of groundwater samples collected at the landfill have primarily shown a fluctuation of metal concentrations. One organic constituent, 1,2-dichloroethene, has historically been present in samples collected at groundwater monitoring well MW-9; however, concentrations of this constituent have not exceeded the groundwater standard. The past presence of metals reported in the groundwater samples was believed to be due to turbidity in the samples. In May 2001, Mr. Rose agreed that the wells could be sampled

one day after purging to allow for settlement of suspended solids in the water column. In laboratory analysis of groundwater samples collected in this manner, metals were below detection limits for all sampled wells.

Additional NCDENR files were reviewed based on information gathered from the Branch files and/or the VISTA report. Our review of this information did not indicate the presence of other listed sites or facilities within the search radius.

According to the database listings obtained from VISTA, the subject site is listed on the UST database. Based on our review of the Petroleum Underground Storage Tank Database, four USTs were located on the subject property from 1975 to 1993. The tanks consisted of one 1,018-gallon diesel tank, two 560-gallon diesel tanks, and one 560-gallon gasoline tank. According to personnel at the NCDENR, Fayetteville Regional Office, the site is not listed as a LUST site.

3.2 Map-Based Data Sources

S&ME personnel examined the USGS topographic map of the Elizabethtown South quadrangle dated 1987 (Figure 1). S&ME attempted to review copies of the Flood Insurance Rating Map (FIRM) prepared by the Federal Emergency Management Agency (FEMA) and the United States Department of Interior's National Wetlands Inventory (NWI). These maps were not available for review at the time of the writing of this report.

According to the USGS topographic map, the site's elevation ranges from approximately 75 to 100 feet above mean sea level (El. ft MSL). The site is shown as a cleared area surrounded by woodlands. An access road is shown extending from NC Highway 701 east towards the site. A structure is shown on the site at the end of the access road. Brown's Creek, which is located approximately 300 feet to the north of the landfill, flows west to east near the northern portion of the site. A wetland area of Brown's Creek is shown approximately 500 feet north of the site. Cross Pond, which is fed by Brown's Creek, is located approximately 1,500 feet northeast of the site. Surface drainage on the site appears to be to the northeast toward Brown's Creek.

3.3 City/County Files and Interviews

S&ME personnel visited or contacted local county agencies and interviewed agency representatives, and where available, the past or present property owner to collect historical and current information regarding the Bladen County Landfill. Mr. Ikie Guyton, former Bladen County Environment, Health Department Supervisor and landfill operator and currently with the NCDENR, Solid Waste Section, Fayetteville Regional Office, was contacted regarding the Bladen County Landfill.

During the interviews, S&ME representatives inquired about the location, size and disposal history of the site. A questionnaire used to record Mr. Guyton's responses is included in Appendix IV.

S&ME personnel discussed past operations at the landfill Mr. Guyton. Mr. Guyton stated that he was the Bladen County Environment Health Supervisor and landfill operator from 1974 to 1987. He stated that during his time as landfill operator, municipal solid waste was disposed at the northern, eastern, south central and western portions of the landfill. Fly ash was disposed in a small area located north of the landfill shop across the access road. Fly ash was also disposed in the southern portion of the landfill and in an area located across the highway by-pass. The by-pass was constructed through the fly ash disposal area. A small amount of construction/demolition debris was disposed along the southern edge of the fly ash area located across the by-pass. Mr. Guyton also stated that underground diesel and gasoline tanks were located at the landfill but he believes that they had been removed.

3.4 Aerial Photographs

S&ME reviewed aerial photographs dated 1972, 1980, 1981 and 1999 showing the site (see table below). Copies of these photographs are included in Appendix I. A copy of the 1999 photograph has also been used as a base for Figure 2.

AERIAL PHOTOGRAPHS

Date	Scale	Source	Frame Reference
1972	1" = 660'	NRCS	JP
1980	1" = 400'	Bladen County Tax Office	
1981	1" = 1000'	NRCS	H9
1999	Not to Scale	Microsoft TerraServer	

The 1972 aerial photograph shows an access road extending from NC Highway 701 east towards the site. The access road terminates in a small cleared area located at the northwest portion of the site. Signs of earthwork are visible in the cleared area. The remainder of the property consists of wooded areas and what appears to be agricultural fields. What appears to be a structure within a cleared area is shown at the southern portion of the site.

In the 1980 and 1981 aerial photographs show the majority of the site as having been cleared. Signs of extensive earthwork are visible in the eastern and central portions of the site. What appear to be trenches are shown in the eastern portion of the property. Evidence of possible excavation is visible in the central portion of the site. The remainder of the site appears to be level and clear except for the structure located at the southern portion of the property.

The 1999 aerial photograph shows the site as being cleared and covered with vegetation. Two structures are shown at the end of the access road leading into the site. A four-lane highway traverses the southern portion of the property and divides the landfill into two sections.

3.5 AOCs Identified in the Public Record

Based on our public record review and interviews of state and local agency representatives, the following AOCs were identified :

- The site was included on the Inactive Hazardous Sites Inventory.
- Brown's Creek, which flows west to east, is located approximately 300 feet north of the site.
- A wetland area associated with Brown's Creek is located approximately 500 feet north of the site.

4.0 OWNERSHIP INFORMATION

After the location of the Bladen County Landfill was confirmed, the site's ownership information was obtained from the Bladen County tax office and the register of deeds office. S&ME used the information obtained from the public records review to identify and locate the site's tax identification number, tax parcel number, street address, owner mailing address, size, and other relevant deed information. According to personnel at the Bladen County tax office, the site is owned by the County and therefore is not required to pay taxes. As of the printing of this report, a copy of the deed had not been found by S&ME. A summary of site ownership information is shown in Table 1.

5.0 INITIAL SITE VISIT

The purpose of our initial site visit was to verify the location of the Bladen County Landfill, to gather information regarding the land use characteristics of the site and its vicinity, to perform a well survey within the search radius, and to interview area neighbors. Information gained during the public record search and from review of topographic maps and aerial photographs was also used to assist in identifying the site and its physical setting.

5.1 Topography

In addition to reviewing the USGS Elizabethtown South quadrangle dated 1987 (Figure 1), S&ME personnel observed the topography and surrounding physical features of the site vicinity. From a review of the topographic map and our observations, the topography of the site appears to have been changed due to past landfill activities. The perimeter of the site is sloping and mostly wooded.

5.2 Land Use/Development

The Bladen County Landfill and its vicinity are located south of Elizabethtown. The properties surrounding the site consist of wooded undeveloped land. Brown's Creek and a wetland area of Brown's Creek are located north of the site. Residential development is located to the southwest. N.C. Highway 87 By-Pass bisects the southern portion of the site. Wooded undeveloped land and agricultural fields are located further south. A solid waste transfer station is located east of the site.

5.3 Groundwater and Surface Water Resources

During the initial site visit, S&ME personnel conducted a visual well survey along roadways that were within the search radius looking for evidence of wells and public and private water systems. No water supply wells were visually identified within the search radius. Nine groundwater monitoring wells were identified around the perimeter of the site. The points for these wells are recorded in Table 3.

The site area is served by a public water system. This information was confirmed by observations of fire hydrants and water meters in the vicinity of the site during the initial site visit.

Using the topographic map, aerial photographs, and our visual observations during the initial site visit, S&ME personnel identified one surface water body within the search radius. Brown's Creek, which is located approximately 300 feet to the north, flows west to east near the northern portion of the site. A wetland area of Brown's Creek is located approximately 500 feet north of the site.

In addition to identifying surface water bodies, S&ME personnel also attempted to identify surface water intakes for drinking water supply systems within the search radius. No surface water intake systems were identified within the search radius.

5.4 AOCs Identified in the Search Radius

Based on our initial site visit, the following AOCs were identified within the search radius.

- Brown's Creek, which flows west to east, is located approximately 300 feet north of the site.
- A wetland area associated with Brown's Creek is located approximately 500 feet north of the site.

6.0 SITE RECONNAISSANCE

After receiving written permission to access the site from the property owner, S&ME performed a site reconnaissance at the Bladen County Landfill on January 11, 2002. The purpose of the site reconnaissance was to observe the site characteristics, which included the identification, if any, of AOCs or potential AOCs.

During the site reconnaissance, observations of AOCs and general site conditions were recorded and photographs were taken (Appendix VI). Using a dGPS receiver, S&ME recorded the northing and easting coordinates of the site's entrance and of observed AOCs. S&ME also attempted to establish coordinates using dGPS of selected on-site features (e.g., limits of the waste disposal areas, streams, roadways and property corners) to the extent that these areas could be identified. The following sections describe our observations made during the site reconnaissance.

6.1 Site Description

A dirt access road, which is gated, extends from NC Highway 701 east towards the site. The site consists of a cleared, grassy area of approximately 37 acres. The perimeter of the site slopes downward and is mostly wooded. N.C. Hwy 87 By-Pass, a four-lane highway, bisects the southern portion of the site. A small portion of the site is located on the south side of the highway. This area is reported to have been used for disposal of construction and demolition debris and is presently cleared of trees and covered with vegetation.

A wooden building, which was a former garage for landfill equipment, is located at the end of the access road to the site. Another small wooden storage building is located near the former garage. Several 55-gallon steel drums are located within the former garage. Most of the drums were empty, however, some of the drums contained what appears to be waste oil. No visual signs of staining were noted around the drums. An above-ground storage tank, which appears to

be empty, is located north of the garage. A small stained area is located on a concrete slab at the southern end of the tank.

The topography of the site is gently rolling due to past waste disposal. Several mounds of waste, which have been capped and covered with grass, are located throughout the site.

At the time of our site reconnaissance, S&ME did not observe visual evidence of flooding.

6.2 Waste Disposal Area

During our reconnaissance, S&ME observed visual evidence that would indicate the limits of the fill area and walked the site to identify the limits of the waste disposal or fill area. The site contains four distinct fill areas, the northern, western, south central and the southern fill area. Each fill area is cleared and grassy. The fill areas, which are at a higher elevation than the surrounding area, are cleared and grassy. The outside perimeter of the fill areas extend to the tree line. At the tree line the fill areas have a significant downward slope. The northern and western fill areas are separated by the access road to the site. A storm water catchbasin and drain pipe are located at the western portion of the site. The drain pipe empties into an unnamed tributary of Brown's Creek. The tributary adjoins the site to the southwest and flows north between the site and U.S. Highway 701, and crosses the access road to the landfill and into Brown's Creek. The south central fill area is separated from the northern and western areas by a drainage ditch, which traverses across the site from the southwest to the northeast. Areas along the drainage ditch were filled with water. A large ravine is located at the end of the ditch, near the eastern portion of the landfill. The south central fill area is the highest point of the site and extends into a narrow ridge toward the eastern portion of the site. A small dirt road is located along the southeastern edge of this fill area. N.C. Highway 87 By-Pass has been constructed through the southern fill area, separating it into two areas.

All landfilled areas of the site are covered with vegetation. No significant areas of exposed waste or signs of significant erosion were observed throughout the site. Three small areas of

ponded water were observed at the edge of the western, eastern and south central fill areas. The coordinates for the limits of fill, as well as other site features, are summarized on Table 3.

6.3 AOCs Identified During the Site Reconnaissance

The coordinates, descriptions and related photographs of the AOCs are summarized in Table 4.

- A former garage where landfill equipment was serviced is located on the site. Several 55-gallon steel drums are located within the garage area. Some of the drums contained what appears to be waste oil. No visual signs of staining were noted around the drums. An empty above ground tank is located north of the garage. A small stained area was observed on a concrete slab at the south end of the tank.
- An unnamed tributary of Brown's Creek adjoins the site to the southwest and flows north between the site and U.S. Highway 701, and crosses the access road to the landfill and into Brown's Creek.
- A drainage ditch traverses the site from the southwest to the northeast. Areas along the drainage ditch were filled with water at the time of our site reconnaissance.
- Three small areas of ponded water are located on the site.

7.0 SUMMARY OF FINDINGS

S&ME performed assessment activities for the Bladen County Landfill following the procedures presented in the *Site Assessment Plan, Hurricane Landfill Assessment Project, State of North Carolina Contract No. N200016* prepared by S&ME, Inc. dated July 14, 2000. The following is a summary of the findings of this assessment.

7.1 Site Location and Ownership

Site Information

Site Name: Bladen County Landfill
Site Identification Number: NCD980502819
Site's Address U.S. Highway 701 South
Elizabethtown, NC
County: Bladen County
Coordinates of Site's Entrance: Northing NAD83(m): 95264
Easting NAD83 (m): 644873
Landfill Size: Approximately 37-Acres
Date Opened: 1972
Date Closed: 1994
Directions to the Site: From Elizabethtown, take U.S. Hwy. 701 South. Proceed approximately 1.1 miles on U.S. Hwy. 701. Turn left onto an unmarked, gated driveway. The landfill is approximately 400 ft. to the east along the access road.

SITE OWNERSHIP INFORMATION

Owner Name	Address	City	State	Zip	Phone
Bladen County	P.O. Box 2350	Elizabethtown	NC	28337	910-862-6726

7.2 Public Record Review

The following public records were reviewed for the Bladen County Landfill and for sites listed on environmental database listings within the search radius.

AGENCY FILES REVIEWED

Agency	Item Copied
NCDENR - Solid Waste Section	State Board of Health "Report of Investigation of Inspection of Water Pollution of Cross' Pond" Pollution Help Line Report
EPA-Waste Management Division, Region IV	"Revised Site Inspection Prioritization Report"
NCDENR- Waste Management	"Screening Site Inspection, Phase II" "Removal from EPA's CERCLIS Inventory" letter "Inactive Haz. Waste Sites Priority List" letter

7.3 Site Vicinity Setting/Characteristics

Based on a review of topographic maps, available aerial photographs, and our site reconnaissance, the site is a cleared, vacant, vegetated area of approximately 37-acres, which is surrounded by wooded undeveloped areas. During our review of the site and vicinity characteristics, S&ME performed a well survey and a survey for surface water bodies and surface water intakes at the site and within the search radius. No water supply wells were visually identified within the search radius. Nine groundwater monitoring wells are located around the site. Brown's Creek, which is located approximately 300 feet north of the site, flows west to east near the northern portion of the site. A wetland area of Brown's Creek is located approximately 500 feet north of the site. An unnamed tributary of Brown's Creek adjoins the site to the southwest and flows north between the site and U.S. Highway 701, beneath the access road to the landfill and into Brown's Creek. No surface water intakes were identified within the search radius.

7.4 Site Reconnaissance

S&ME performed a site reconnaissance at Bladen County Landfill on January 11, 2002. The site consists of a cleared, vacant, grassy area of approximately 37-acres, which is surrounded by wooded undeveloped areas. A dirt access road, which is gated, extends from U.S. Highway 701 east towards the site. A small wooden building, which was a former garage for landfill equipment, is located at the end of the access road to the site. The topography of the site is gently rolling due to past waste disposal activities. The site contains four distinct waste disposal areas. The waste disposal area with the highest elevation is located at the south central portion of the site. N.C. Hwy 87 By-Pass, a four-lane highway, traverses the southern portion of the site.

A small portion of the site, which is also cleared and grassy, is located on the opposite side of the highway.

7.5 Areas of Concern

S&ME identified the following AOCs during this assessment:

- The site was included on the Inactive Hazardous Sites Inventory.
- Brown's Creek, which flows west to east, is located approximately 300 feet north of the site.
- A wetland area of Brown's Creek is located approximately 500 feet north of the site.
- An unnamed tributary of Brown's Creek adjoins the site to the southwest and flows north between the site and U.S. Highway 701, beneath the access road to the landfill and into Brown's Creek.
- Three small areas of ponded water are located on the site.
- A drainage ditch traverses the site from the southwest to the northeast. Areas along the drainage ditch were filled with water at the time of our site reconnaissance.
- A former garage where the landfill equipment was serviced is located on the site. Several 55-gallon steel drums are located within the garage area. Some of the drums contained what appears to be waste oil. No visual signs of staining were noted around the drums. An empty above ground tank is located north of the garage. A small stained area was observed on a concrete slab at the south end of the tank.

TABLES

TABLE 1
OWNERSHIP INFORMATION

Owner Name	Address	City	State	Zip	Phone	Tax ID	PIN	Deed Book Ref
Bladen County	P.O. Box 2350	Elizabethtown	NC	28337	910-862-6726			No Data Available

TABLE 2
WELL AND SURFACE WATER INTAKE SURVEY RESULTS

Well Number	Northing (NAD83 meters)	Easting (NAD83 meters)	Owner's Name	Street Address	Type of Well	Distance and directions from site	Operational? (Yes/No)	In Use (Yes/No)
No potable water wells or surface water intakes were identified within the search radius. Nine groundwater monitoring wells were observed around the site. The coordinates of these wells are recorded in Table 3.								

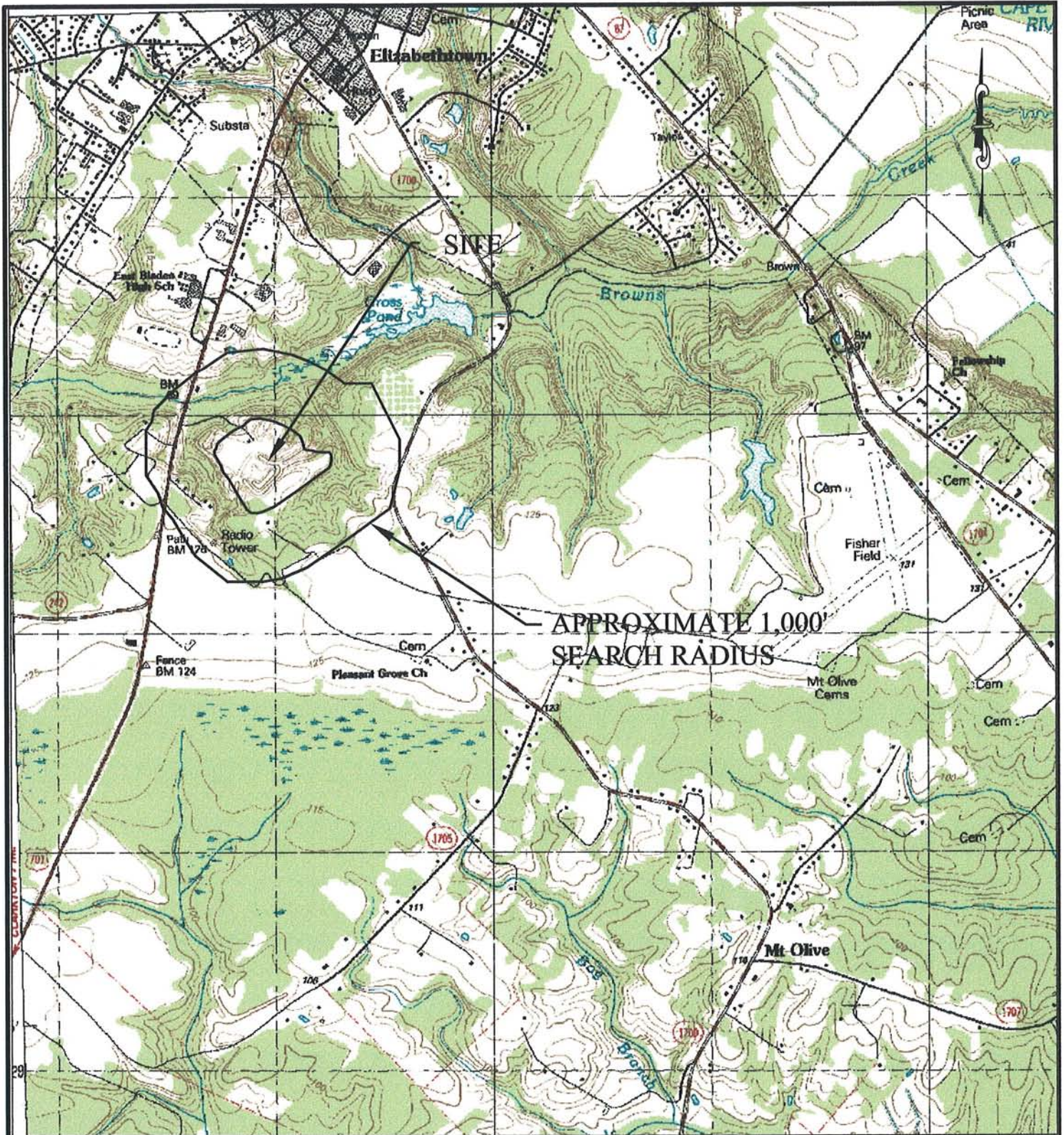
**TABLE 3
 SITE FEATURES**

Site Feature	Northing (NAD83 meters)	Easting (NAD83 meters)
Approximate Highest Elevation on Fill Area	94993	645233
Limits of Fill	95057	645466
Limits of Fill	95171	644904
Limits of Fill	95149	644922
Limits of Fill	95125	644968
Limits of Fill	95021	645023
Limits of Fill	94991	645039
Limits of Fill	94970	645093
Limits of Fill	94932	645148
Limits of Fill	94871	645132
Limits of Fill	94824	645092
Limits of Fill	94810	645162
Limits of Fill	94863	645214
Limits of Fill	94908	645262
Limits of Fill	94976	645344
Limits of Fill	95098	645480
Limits of Fill	95112	645469
Limits of Fill	95065	645337
Limits of Fill	95114	645259
Limits of Fill	95133	645316
Limits of Fill	95165	645381
Limits of Fill	95198	645377
Monitoring Well 1	94685	645349
Monitoring Well 2	94822	645267
Monitoring Well 3	94963	645386
Monitoring Well 4	95092	645504
Monitoring Well 7	95249	645090
Monitoring Well 8	95200	644877
Monitoring Well 9	95131	644880

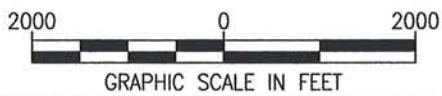
**TABLE 4
 AREAS OF CONCERN**

AOC Number	Northing Central Point Coordinate (NAD83 meters)	Easting Central Point Coordinate (NAD83 meters)	Description	Estimated Size	Photograph Reference
1	Public Record Review		Site is listed as an IHSI site.	N/A	Not available
2	Data Not Available		Browns Creek is located approximately 300 feet north of the site.	Undetermined	Not available
3	Data Not Available		A wetland area of Brown's Creek is located 500 feet north of the site.	Undetermined	Not available
4	95202	644857	Unnamed tributary of Brown's Creek adjoins site to the southwest.	Approximately five feet wide	Photo 2
5	95150	644934	Three small areas of ponded water are located on site.	Each approximately 1/10 of an acre	Photo 3
6	95026	645071	A drainage ditch, filled with water, traverses the site.	Approximately six-ten feet wide	Photo 4
7	95207	645075	Former garage where the landfill equipment was serviced is located on the site.	Undetermined	Photos 5 and 6
8	95207	645075	55-gallon drums are located within the garage, some of which were filled with waste oil	Approximately 20 x 20 foot area	Photo 6
9	95214	645061	An empty AST is located north of the former garage. A small stained area is located on a concrete slab at the south end of the tank	Approximately 250-gallons	Photo 7

FIGURES



APPROXIMATE 1,000'
SEARCH RADIUS



ELIZABETHTOWN SOUTH, N.C. USGS QUADRANGLE DATED 1987

SITE MAP

**BLADEN COUNTY LANDFILL
ELIZABETHTOWN, NORTH CAROLINA**



Job No. 1040-00-335A
Scale: 1" = 2000'
Fig No. 1

File: 1040-00-335A-FIG1

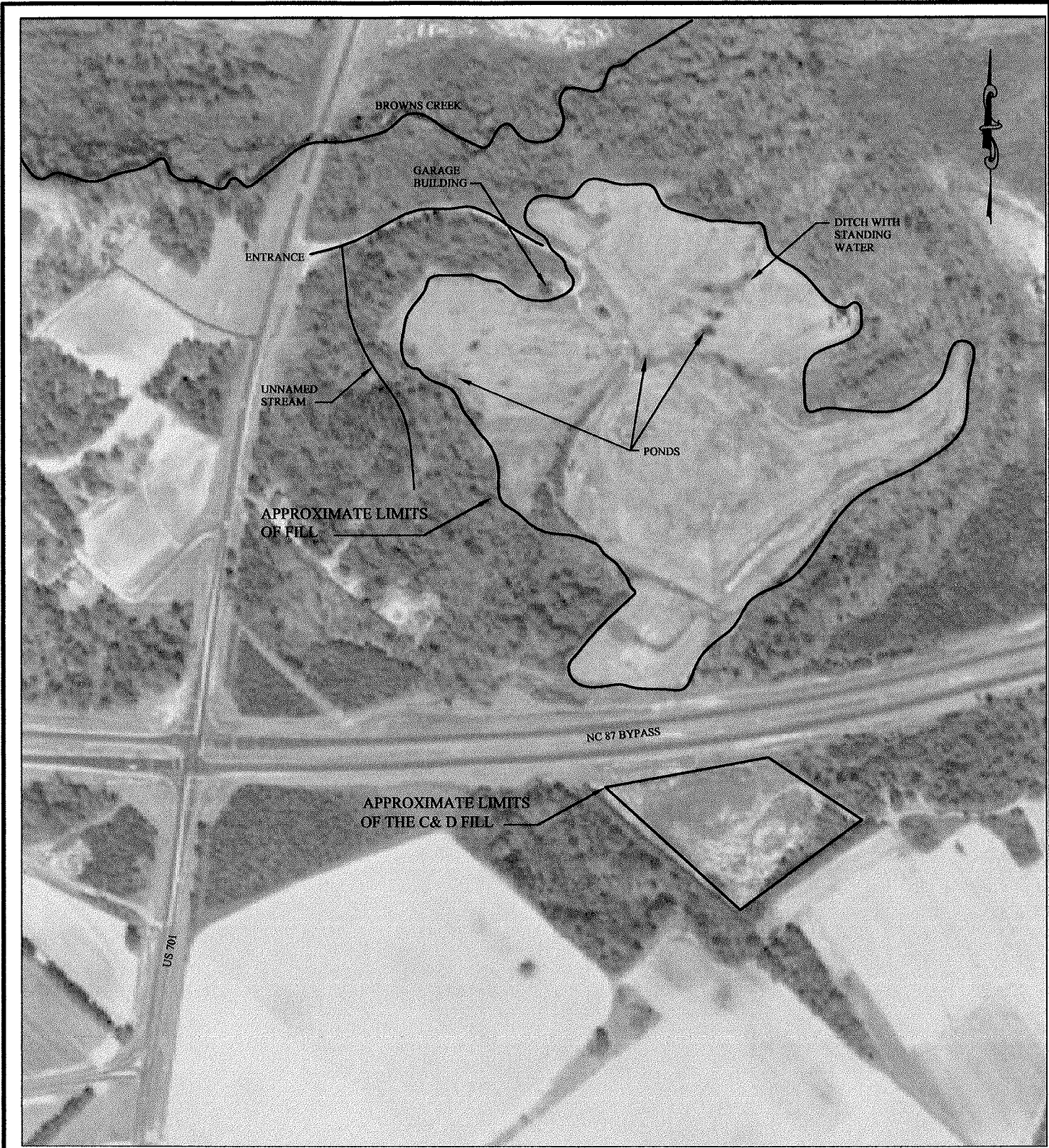
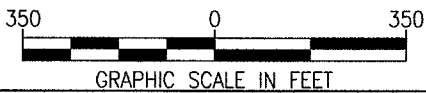


FIGURE ADAPTED FROM 1999 TERRASERVER PHOTOGRAPH



WASTE DISPOSAL AREA
BLADEN COUNTY LANDFILL
ELIZABETHTOWN , NORTH CAROLINA



Job No. 1040-00-335A
 Scale: 1" = 350'
 Fig No. 2

APPENDIX I



Bioscience Hospital
Land Devoted to
M. J. R. 152
1-23-73

Lot 5
C 501 J9

C 3711 J9

C 3711 J9

C 2664 J9

C 4064

SITE

Source: NRCS
Date: 1972
Scale: 1" = 660'
Reference: J9

1" = 400' SCALE
SEE MAP 3111-1

SILT

2102
27.27 A
(34.00' A)

SANITATION

BLADE COUNTY

0992
38.38 A
(38.90 A)

BLADE COUNTY
0709
27.27 A

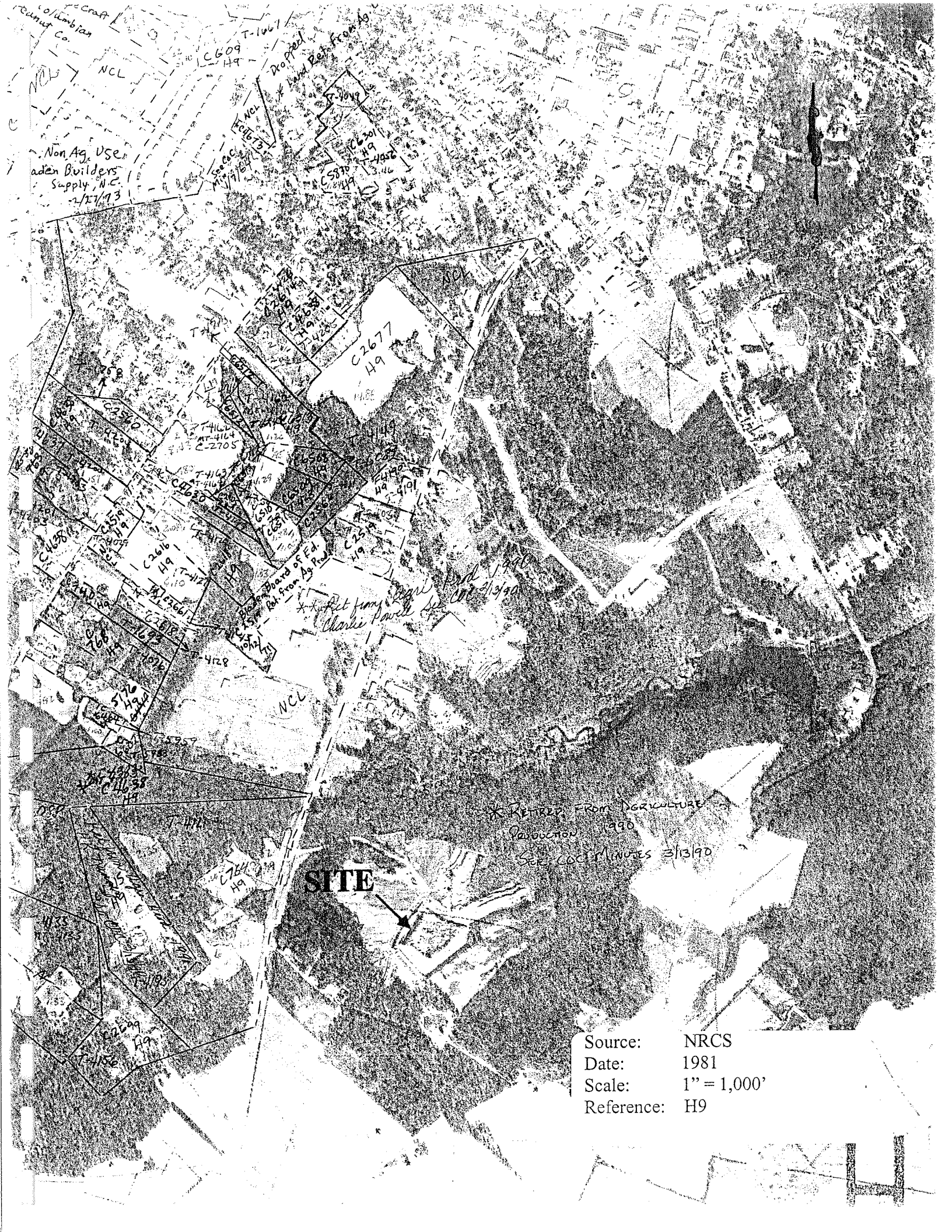
95
4.04

7

Source: Tax Office
Date: 1980
Scale: 1" = 400'
Reference: N/A

042 A

9376



Non Ag. Use
aden Builders
Supply, N.C.
2/1/93

Dropped
* land Ret. from Ag.

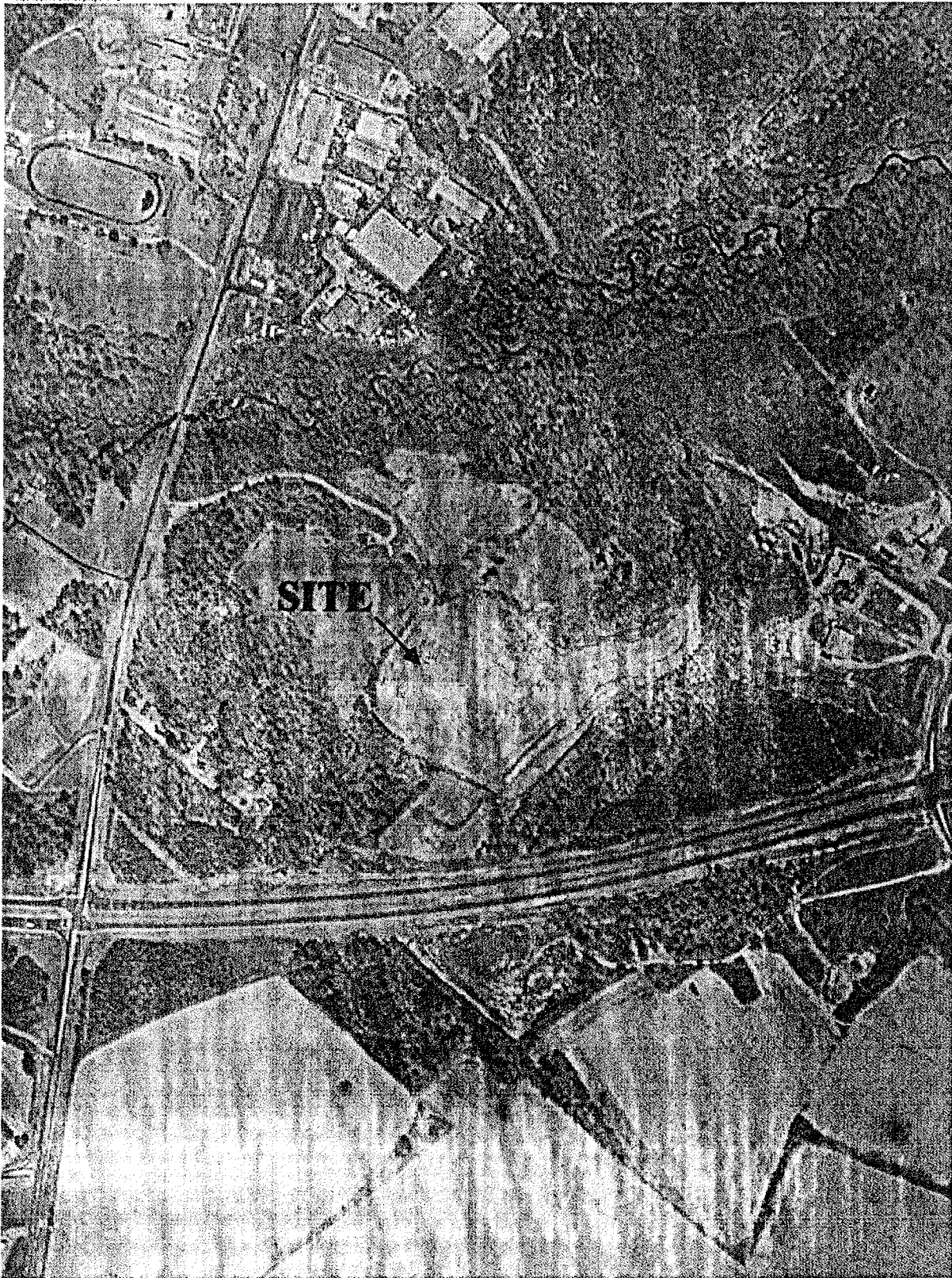
* Ret. from Ag. Prod. 1/90
Charlie Powell See CO 3/13/90

* RETIRED FROM AGRICULTURE
PRODUCTION 1990
SEE CO. MINUTES 3/13/90

SITE

Source: NRCS
Date: 1981
Scale: 1" = 1,000'
Reference: H9

3 km S of Elizabethtown, North Carolina, United States 28 Mar 1999



0 200M

0 200yd

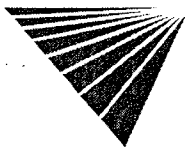


APPENDIX II

SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/4 MILE)

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: 1040-00-335A Bladen County Landfill Highway 701 Elizabethtown, NC 28337 Latitude/Longitude: (34.605609, 78.613428)	Sean Pepper SME, Inc. 3118 Springforest Road Raleigh, NC 27616

Site Distribution Summary	<i>within 3/8 mile</i>	<i>3/8 to 1/2 mile</i>	<i>1/2 to 3/4 mile</i>	<i>3/4 to 1 1/4 mile</i>
Agency / Database - Type of Records				
A) Databases searched to 1 1/4 mile:				
US EPA NPL National Priority List	0	0	0	0
US EPA CORRACTS RCRA Corrective Actions (w/o TSD)	0	0	0	0
US.EPA TSD RCRA Corrective Actions and CORRACTS associated TSD	0	0	0	0
STATE SPL State equivalent priority list	0	0	0	0
B) Databases searched to 3/4 mile:				
STATE SCL State equivalent CERCLIS list	0	0	0	-
US EPA CERCLIS / Sites currently or formerly under review NFRAP by US EPA	1	0	0	-
US EPA TSD RCRA permitted treatment, storage, disposal facilities	0	0	0	-
STATE REG LUST Leaking Underground Storage Tanks CO	0	0	0	-
STATE/ SWLF Permitted as solid waste landfills, REG/CO incinerators, or transfer stations	0	0	1	-
USGS/STATE WATER Federal and State Drinking Water WELLS Sources	0	0	0	-
C) Databases searched to 1/2 mile:				
US EPA RCRA Viol RCRA violations/enforcement actions	0	0	-	-
US EPA TRIS Toxic Release Inventory database	0	0	-	-
STATE UST/AST Registered underground or aboveground storage tanks	0	0	-	-



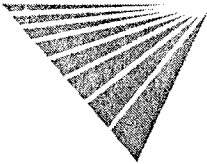
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 683404901

Date of Report: January 21, 2002

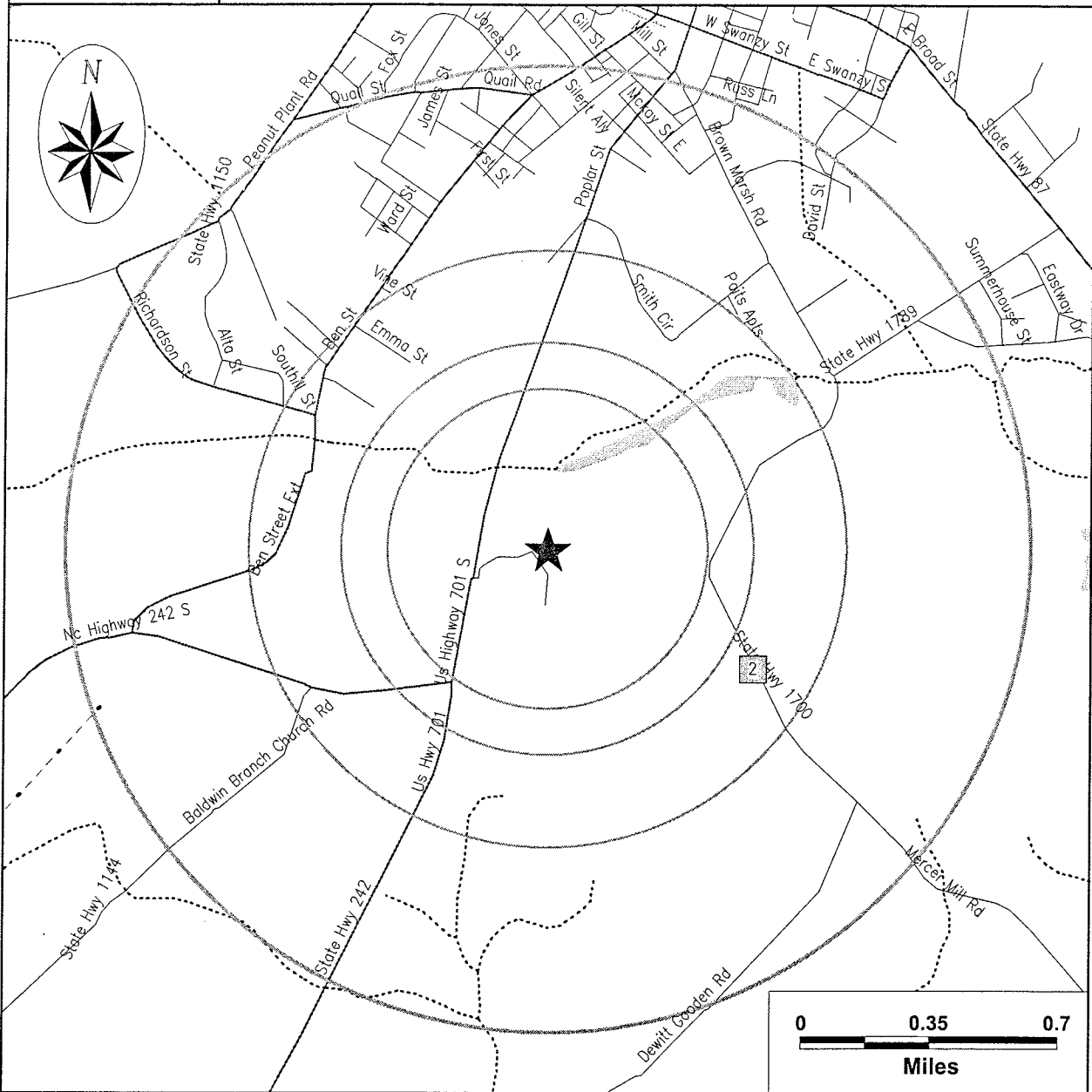
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SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/4 MILE)

Map of Sites within 1 1/4 Miles



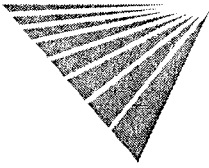
Subject Site	Category:	A	B	C	D
★	Databases Searched to:	1 1/4 mi.	3/4 mi.	1/2 mi.	3/8 mi.
	Single Sites	◆	■	△	○
	Multiple Sites	◆	■	△	○
Highways and Major Roads Roads Railroads Rivers or Water Bodies Utilities		NPL, SPL, CORRACTS (TSD)	CERCLIS, NFRAP, TSD, LUST, SWLF SCL	UST	ERNS, GENERATORS
<p>If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.</p>					

For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403

Report ID: 683404901

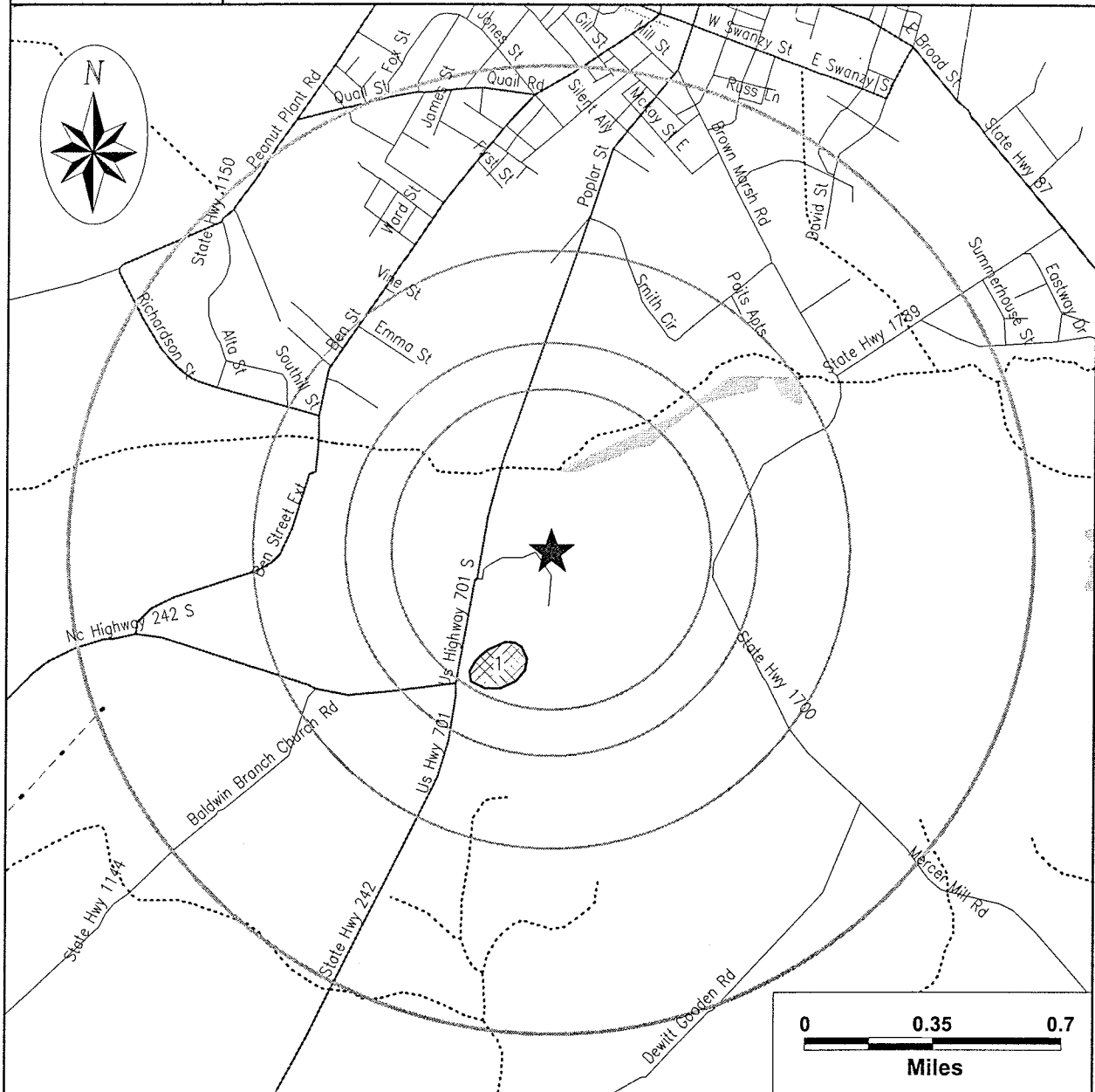
Date of Report: January 21, 2002

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SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/4 MILE)

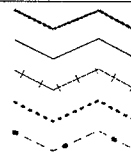
Sites Represented as Polygons



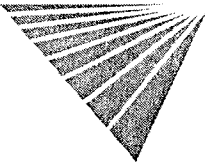
These boundaries are approximated from agency records or other sources such as published maps. They may represent property boundaries, impact zones, or study areas. For more information contact the agency referenced by source number in the site listing.



Subject Site

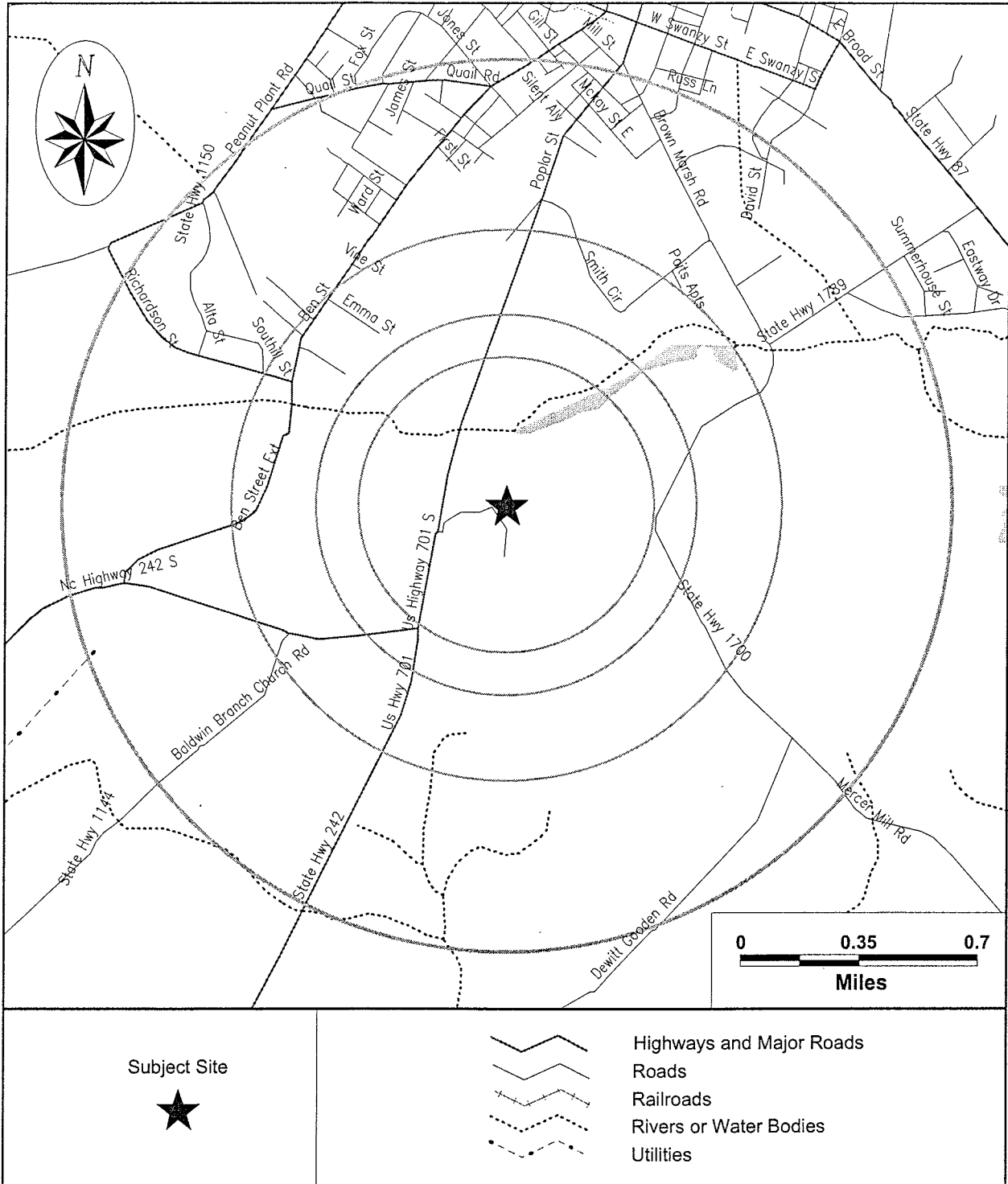


Highways and Major Roads
Roads
Railroads
Rivers or Water Bodies
Utilities



SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/4 MILE)

Street Map



SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/4 MILE)

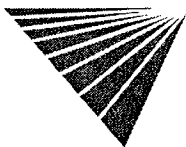
SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 3/8 mile)	VISTA ID DISTANCE DIRECTION	A				B				C		D					
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
1	BLADEN CO LDFL US HWY 701 S ELIZABETHTOWN, NC 28337	50065 0.27 MI						X										

MAP ID	SITES IN THE SURROUNDING AREA (within 3/8 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A				B				C		D					
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
No Records Found																		

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 3/4 mile)	VISTA ID DISTANCE DIRECTION	A				B				C		D					
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
2	BLADEN COUNTY LANDFILL 1522 MERCER MILL RD ELIZABETHTOWN, NC 28337	65524228 0.59 MI SE								X								

MAP ID	SITES IN THE SURROUNDING AREA (within 3/4 - 1 1/4 mile)	VISTA ID DISTANCE DIRECTION	A				B				C		D					
			NPL	CORRACTS	TSD CORRACTS	SPL	SCL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR	SPILLS
No Records Found																		



X = search criteria; * = tag-along (beyond search criteria).

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 683404901

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UNMAPPED SITES	VISTA ID	A				B				C			D				
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BEN STREET LIFT STATION 2330 MARTIN LUTHER KING BLVD ELIZABETHTOWN, NC 28337	67035817												X				
KATHABAR INC 1301 POPLAR ST ELIZABETHTOWN, NC 28337	6856288										X				X		
HAN-DEE HUGO'S #2 403 S POPLAR ST ELIZABETHTOWN, NC 28337	67035883												X				
PANTRY 3166 (ETNA 391) 340 S POPLAR ST ELIZABETHTOWN, NC 28337	67035875												X				
SCOTCHMAN #90 101 S POPLAR ST ELIZABETHTOWN, NC 28337	67035912												X				
CAROLINA TIRE COMPANY 315 SOUTH POPLAR ST ELIZABETHTOWN, NC 28337	65835223												X				
SCOTCHMAN #8 HIGHWAY 87 E ELIZABETHTOWN, NC 28337	65834700												X				
BLADEN LAKES STATE FOREST NC 242 AT BLADEN LAKES ST FOREST ELIZABETHTOWN, NC 28337	66216663												X				
INTERNATIONAL PAPER COMPANY HIGHWAY 53 W ELIZABETHTOWN, NC 28337	65834766												X				
BLADEN ELEMENTARY GYM ELIZABETHTOWN, NC 28337	503284711												X				
WACHOVIA PROPERTY 220 S POPLAR ST ELIZABETHTOWN, NC 0	67088910								X							X	
JONES LAKE STATE PK JONES LAKE STATE PK ELIZABETHTOWN, NC 0	65253793								X							X	
BLADEN COUNTY LANDFILL US HWY 701 S ELIZABETHTOWN, NC 28337	12553618			X													
ROBERT SUGGS HIGHWAY 53 ELIZABETHTOWN, NC 28337	2465773												X				
PRESTO-CLEAN ELIZABETHTOWN SHOPPING CTR ELIZABETHTOWN, NC 28337	4065732										X				X		



X = search criteria; • = tag-along (beyond search criteria).

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

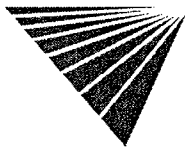
Report ID: 683404901

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UNMAPPED SITES	VISTA ID	A				B				C			D				
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CAPE FEAR TIRE AUTO HIGHWAY 701 ELIZABETHTOWN, NC 28337	2466231												X				
BURNEY'S CHIPPING AND LOGGING HWY 53 ELIZABETHTOWN, NC 28337	2465772												X				
LOCK ROAD LIFT STATION LOCKS RAOD 87 E ELIZABETHTOWN, NC 28337	65834762												X				
ELIZABETHTOWN FIRE DEPT NOT SHOWN ELIZABETHTOWN, NC 28337	5543742							X								X	
CAPE FEAR CHEMICALS/HL BRICE ELIZABETHTOWN, NC 28337	3055402					X											
BENTON'S SHELL HIGHWAY 87 ELIZABETHTOWN, NC 28337	2466461												X				
G.W. THOMAS. INC. HIGHWAY 210 ELIZABETHTOWN, NC 28337	2464352												X				
WAM SQUAM HWY 701 53 ELIZABETHTOWN, NC 0	65243082							X								X	
BAHON'S 76 HIGHWAY 87 ELIZABETHTOWN, NC 28337	2466459												X				
WORSLEY OIL BULK PLANT HWY 701 S ELIZABETHTOWN, NC 0	65262344							X								X	
BLADEN COUNTY LANDFILL 701 S ELIZABETHTOWN, NC 28337	65835650												X				
JOHNSON 76 HWY 53 ELIZABETHTOWN, NC 28337	5347393							X								X	
J.E. DAVIS UNION 76 ROUTE 2 HWY 242 ELIZABETHTOWN, NC 28337	65835813												X				
KECH'S DRAPERY ELIZABETHTOWN, NC 28337	503284959												X				
CAPE CRAFT. INC. PEANUT PLANT RD ELIZABETHTOWN, NC 28337	65836451												X				
WAM SQUAM HIGHWAY 701 ELIZABETHTOWN, NC 28337	2466235												X				



X = search criteria; • = tag-along (beyond search criteria).

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

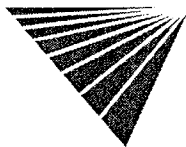
Report ID: 683404901

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UNMAPPED SITES	VISTA ID	A				B				C			D				
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WARD LUMBER COMPANY HIGHWAY 53 ELIZABETHTOWN, NC 28337	3259360												X				
GREENE BROTHERS LUMBER(LIQUID HIGHWAY 87 W ELIZABETHTOWN, NC 28337	65834710												X				
INTERIOR WOOD SPECIALTIES HIGHWAY 701 N ELIZABETHTOWN, NC 28337	67300930										X				X		
BEATTY'S GROCERY HIGHWAY 701 S ELIZABETHTOWN, NC 28337	65836456												X				
CYPRESS STREET LIFT STATION NEAR LIBRARY ELIZABETHTOWN, NC 28337	2455917												X				
ED TATUM MOTORS HWY 87 W ELIZABETHTOWN, NC 28337	65836452												X				
BLADEN LAKES PRIMARY SCHOOL HWY 1509 9554 JOHNSONTOWN RD ELIZABETHTOWN, NC 28377	66215797												X				
ELIZABETHTOWN PRIMARY SCHOOL ICE PLANT RD 301MERCER BROWN ELIZABETHTOWN, NC 28337	66215798												X				
MINUTE MAN 17 HWY 701 S ELIZABETHTOWN, NC 0	65251599								X							X	
TAYLOR MFG INC HIGHWAY 701 S ELIZABETHTOWN, NC 28337	67437522										X				X		
VEEDER-ROOT LIFT STATION N C 87 W AT VEEDER-ROOT MFG ELIZABETHTOWN, NC 28337	66216766												X				



X = search criteria; • = tag-along (beyond search criteria).

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 683404901

Date of Report: January 21, 2002

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SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/4 MILE)

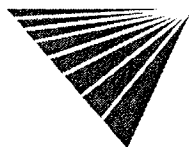
DETAILS

PROPERTY AND THE ADJACENT AREA (within 3/8 mile)

VISTA Address*:	BLADEN CO LDFL US HWY 701 S ELIZABETHTOWN, NC 28337	VISTA ID#:	50065
		Distance	0.21 MI
		Plotted as:	Polygon
NFRAP / SRC# 18		Agency ID:	0402973
Agency Address:	<i>SAME AS ABOVE</i>		
EPA ID:	<i>NCD980502819</i>		
Site ID:	<i>0402973</i>		
EPA Region:	<i>04</i>		
USGS Hydrologic Unit Code:	<i>03030005</i>		
Ownership Type:	<i>OTHER</i>		
Federal Facility Indicator:	<i>NOT A FEDERAL FACILITY</i>		
NPL Status:	<i>NOT ON THE NPL</i>		
Hazardous Waste Docket Flag:	<i>NOT ON THE HAZARDOUS WASTEDOCKET</i>		
Action:	<i>DISCOVERY</i>		
Action Lead:	<i>EPA FUND-FINANCED</i>		
Actual Completion Date:	<i>NOVEMBER 1, 1979</i>		
Action:	<i>PRELIMINARY ASSESSMENT</i>		
Action Qualifier:	<i>LOW</i>		
Action Lead:	<i>EPA FUND-FINANCED</i>		
Actual Completion Date:	<i>FEBRUARY 1, 1980</i>		
Action:	<i>SCREENING SITE INSPECTION</i>		
Action Qualifier:	<i>NFRAP (NO FUTHER REMEDIAL ACTION PLANNED)</i>		
Action Lead:	<i>EPA FUND-FINANCED</i>		
Actual Completion Date:	<i>FEBRUARY 26, 1991</i>		
Operable Unit ID:	<i>00</i>		
Operable Unit Name:	<i>SITEWIDE</i>		
Alias ID:	<i>101</i>		
Alias Name:	<i>BLADEN CO LDFL</i>		
Address:	<i>NC BLADEN</i>		
Fields Not Reported by the Source	<i>Financial Management System ID(1), Site Incident Category Description(1), Action Qualifier(1), Scheduled Start Date(2), Scheduled Completion Date(2), Actual Start Date(1)</i>		
Agency for this Site:			

Map ID

1



* VISTA address includes enhanced city and ZIP.

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Report ID: **683404901**

Date of Report: **January 21, 2002**

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SITES IN THE SURROUNDING AREA (within 3/8 - 1/2 mile)

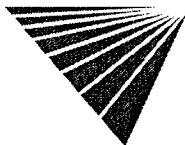
No Records Found

SITES IN THE SURROUNDING AREA (within 1/2 - 3/4 mile)

VISTA Address*:	BLADEN COUNTY LANDFILL 1522 MERCER MILL RD ELIZABETHTOWN, NC 28337	VISTA ID#:	65524228
		Distance/Direction:	0.59 MI / SE
		Plotted as:	Point
STATE SWLF - Solid Waste Landfill / SRC# 354		Agency ID:	P0012
Agency Address:	<i>BLADEN COUNTY LANDFILL 1522 MERCER MILL RD ELIZABETHTOWN, NC 0 P0012</i>		
Facility ID #:	<i>P0012</i>		
Facility Name:	<i>BLADEN COUNTY LANDFILL</i>		
Facility Address:	<i>1522 MERCER MILL RD ELIZABETHTOWN, NC BLADEN</i>		
Facility County:	<i>BLADEN</i>		
Permit ID #:	<i>0901</i>		
Facility Type:	<i>MSWLF</i>		
Facility Status:	<i>INACTIVE</i>		
Facility Life:	<i>NOT REPORTED</i>		
Contact Name:	<i>EDWIN DOWLESS</i>		
Contact Address:	<i>OPERATIONS DIRECTOR PO BOX 2350 ELIZABETHTOWN, NC 28337</i>		
Contact Phone #:	<i>9108626785</i>		
Public or Private:	<i>PUBLIC</i>		
Lined:	<i>FALSE</i>		
STATE SWLF - Solid Waste Landfill / SRC# 355		Agency ID:	P0501
Agency Address:	<i>BLADEN COUNTY TRANSFER STATION 1522 MERCER MILL RD ELIZABETHTOWN, NC 0 P0501</i>		
Facility ID #:	<i>P0501</i>		
Facility Name:	<i>BLADEN COUNTY TRANSFER STATION</i>		
Facility Address:	<i>1522 MERCER MILL RD ELIZABETHTOWN, NC BLADEN</i>		
Facility County:	<i>BLADEN</i>		
Permit ID #:	<i>0904-T</i>		
Public or Private:	<i>PUBLIC</i>		
Facility Type:	<i>TRANSFER</i>		
Facility Status:	<i>OPEN</i>		
Facility Life:	<i>NOT REPORTED</i>		
Lined:	<i>FALSE</i>		
Contact Name:	<i>EDWIN DOWLESS</i>		
Contact Address:	<i>SITE SUPERVISOR 1522 MERCERMILL ROAD ELIZABETHTOWN, NC 28337</i>		

Map ID

2



* VISTA address includes enhanced city and ZIP.

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Report ID: 683404901

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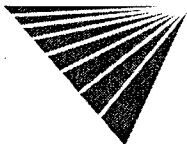
SITES IN THE SURROUNDING AREA (within 1/2 - 3/4 mile) CONT.

Contact Phone #:

9106454279

SITES IN THE SURROUNDING AREA (within 3/4 - 1 1/4 miles)

No Records Found



* VISTA address includes enhanced city and ZIP.

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Report ID: 683404901

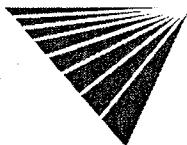
Date of Report: January 21, 2002

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UNMAPPED SITES

VISTA Address*:	WACHOVIA PROPERTY 220 S POPLAR ST ELIZABETHTOWN, NC 0	VISTA ID#:	67088910
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Name:	WACHOVIA PROPERTY		
Facility Address:	220 S POPLAR ST		
Facility City:	ELIZABETHTOWN		
Facility State:	NC		
Facility County:	BLADE		
Incident No:	7531		
Region:	FAYETTEVILLE		
Date Occurred:	10/9/91		
Submitted Date:	4/16/92		
GW Contamination (Y Or N):	Y		
Description of Incident:	SITE ASSESSMENT REVEALED GWCONTAMINATION.		
Owner Name:	UNKNOWN		
Owner Company:	WACHOVIA		
Owner Address:	HWY 701 SOUTH ELIZABETHTOWN, NC 28337		
Ownership:	UNKNOWN		
Material 1:	GASOLINE		
Source:	LEAK, UST		
Type:	GASOLINE/DIESEL		
Location:	FACILITY		
Setting:	URBAN		
Risk Site:	Y		
Site Priority:	030E		
Priority Code:	L		
Priority Update:	4/15/98		
Samples Include:	1		
Latitude:	343743		
Longitude:	783125		
Pirf Or Min Soil:	PIRF		
Source:	LEAK, UST		
Type:	GASOLINE/DIESEL		
Risk Site:	Y		
Priority Code:	L		
Incident Phase:	CLOSED OUT		
Ownership:	UNKNOWN		
No of Wells Affected:	0		
Submitted Date:	4/16/92		
Pirf Or Min Soil:	PIRF		
Last Modified:	4/19/99		



* VISTA address includes enhanced city and ZIP.

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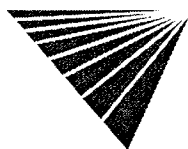
UNMAPPED SITES CONT.

Incident Phase:	<i>CLOSED OUT</i>
Close Or Out Report:	<i>1/15/97</i>
Fields Not Reported by the Source Agency for this Site:	<i>Facility ID(1), Major Soil Contamination (Y Or N)(1), Owner Phone(1), Owner County(1), Operation Type(2), Material 2(1), Material 3(1), Amount Lost 1(1), Amount Lost 2(1), Amount Lost 3(1), Amount Recovered 1(1), Amount Recovered 2(1), Amount Recovered 3(1), Closure Require Date(2), Nov Issued(2), Norr Issued(2), Corrective Action Plan(1)</i>

VISTA Address*:	JONES LAKE STATE PK JONES LAKE STATE PK ELIZABETHTOWN, NC 0	VISTA ID#:	65253793
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STATE LUST - State Leaking Underground Storage Tank / SRC# 357	EPA/Agency ID:	N/A
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Agency Address:	<i>SAME AS ABOVE</i>
Facility Name:	<i>JONES LAKE STATE PK</i>
Facility Address:	<i>JONES LAKE STATE PK</i>
Facility City:	<i>ELIZABETHTOWN</i>
Facility State:	<i>NC</i>
Facility County:	<i>BLADE</i>
Incident No:	<i>7761</i>
Facility ID	<i>0-021969</i>
Region:	<i>FAYETTEVILLE</i>
Date Occurred:	<i>10/4/90</i>
Submitted Date:	<i>5/13/92</i>
Description of Incident:	<i>CONTAM. SOIL WAS EXCAVATED.</i>
Owner Name:	<i>LEON CARTER</i>
Owner Company:	<i>DIV. OF PARKS REC.</i>
Owner Address:	<i>12700 BAYLEAF CHURCH RD. RALEIGH, NC 27614 WAKE STATE</i>
Owner County	<i>WAKE</i>
Ownership:	<i>STATE</i>
Operation Type	<i>PUBLIC SERVICE</i>
Material 1:	<i>GASOLINE</i>
Source:	<i>LEAK, UST</i>
Type:	<i>GASOLINE/DIESEL</i>
Location:	<i>OTHER</i>
Setting:	<i>RURAL</i>
Pirf Or Min Soil:	<i>MIN_SOIL</i>
Source:	<i>LEAK, UST</i>
Type:	<i>GASOLINE/DIESEL</i>
Incident Phase:	<i>CLOSED OUT</i>
Ownership:	<i>STATE</i>
Operation Type	<i>PUBLIC SERVICE</i>
No of Wells Affected:	<i>0</i>
Submitted Date:	<i>5/13/92</i>
Pirf Or Min Soil:	<i>MIN_SOIL</i>
Incident Name:	<i>JONES LAKE STATE PARK</i>



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UNMAPPED SITES CONT.

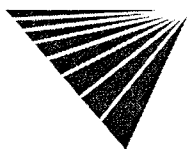
County:	BLADE
Region:	FAY
Date Entered:	5/14/92
Source:	3
Last Modified:	12/18/95
Incident Phase:	CLOSED OUT
Close Or Out Report:	11/1/95
Fields Not Reported by the Source Agency for this Site:	GW Contamination (Y Or N)(1), Major Soil Contamination (Y Or N)(1), Owner Phone(1), Material 2(1), Material 3(1), Amount Lost 1(1), Amount Lost 2(1), Amount Lost 3(1), Amount Recovered 1(1), Amount Recovered 2(1), Amount Recovered 3(1), Risk Site(2), Site Priority(1), Priority Code(2), Priority Update(1), Samples Include(1), Latitude(1), Longitude(1), Closure Require Date(2), Nov Issued(2), Narr Issued(2), Facility ID(1), Corrective Action Plan(1)

VISTA Address*:	BLADEN COUNTY LANDFILL US HWY 701 S ELIZABETHTOWN, NC 28337	VISTA ID#:	12553618
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SPL - State Equivalent Priority List / SRC# 350		EPA/Agency ID:	N/A
Agency Address:	BLADEN COUNTY LANDFILL US HWY 701 S ELIZABETHTOWN, NC 0		
Facility Name:	BLADEN COUNTY LANDFILL		
Facility Address:	US HWY 701 S		
Facility City:	ELIZABETHTOWN		
Facility State:	NC		
Status:	UNKNOWN		
Pollutant1:	METALS/RELATED SUBSTANCES		
Pollutant2:	NOT REPORTED		
Pollutant3:	NOT REPORTED		

VISTA Address*:	ELIZABETHTOWN FIRE DEPT NOT SHOWN ELIZABETHTOWN, NC 28337	VISTA ID#:	5543742
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STATE LUST - State Leaking Underground Storage Tank / SRC# 357		EPA/Agency ID:	N/A
Agency Address:	ELIZABETHTOWN FIRE DEPT NOT SHOWN ELIZABETHTOWN, NC 0		
Facility Name:	ELIZABETHTOWN FIRE DEPT		
Facility Address:	NOT SHOWN		
Facility City:	ELIZABETHTOWN		
Facility State:	NC		
Facility County:	BLADE		
Incident No:	7773		
Facility ID	0-002020		
Region:	FAYETTEVILLE		
Date Occurred:	6/20/90		
Submitted Date:	5/13/92		
Description of Incident:	CONTAM. SOIL WAS EXCAVATED.		
Owner Name:	JOHN MOTT		



* VISTA address includes enhanced city and ZIP.

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Report ID: 683404901

Date of Report: January 21, 2002

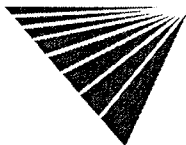
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UNMAPPED SITES CONT.

Owner Company:	PUBLIC WORKS DEPT.
Owner Address:	P.O. BOX 716 ELIZABETHTOWN, NC 28337
Owner County	BLADE
Ownership:	MUNICIPAL
Operation Type	PUBLIC SERVICE
Material 1:	GASOLINE
Source:	LEAK, UST
Type:	GASOLINE/DIESEL
Location:	FACILITY
Pirf Or Min Soil:	MIN_SOIL
Source:	LEAK, UST
Type:	GASOLINE/DIESEL
Incident Phase:	CLOSED OUT
Ownership:	MUNICIPAL
Operation Type	PUBLIC SERVICE
No of Wells Affected:	0
Submitted Date:	5/13/92
Pirf Or Min Soil:	MIN_SOIL
Incident Name:	ELIZABETHTOWN FIRE DEPT.
County:	BLADE
Region:	FAY
Date Entered:	5/14/92
Source:	3
Last Modified:	12/18/95
Incident Phase:	CLOSED OUT
Close Or Out Report:	11/1/95
Fields Not Reported by the Source Agency for this Site:	GW Contamination (Y Or N)(1), Major Soil Contamination (Y Or N)(1), Owner Phone(1), Material 2(1), Material 3(1), Amount Lost 1(1), Amount Lost 2(1), Amount Lost 3(1), Amount Recovered 1(1), Amount Recovered 2(1), Amount Recovered 3(1), Setting(1), Risk Site(2), Site Priority(1), Priority Code(2), Priority Update(1), Samples Include(1), Latitude(1), Longitude(1), Closure Require Date(2), Nov Issued(2), Norr Issued(2), Facility ID(1), Corrective Action Plan(1)

VISTA Address*:	CAPE FEAR CHEMICALS/HL BRICE ELIZABETHTOWN, NC 28337	VISTA ID#:	3055402
SCL - State Equivalent CERCLIS List / SRC# 351		EPA/Agency ID:	N/A
Agency Address:	CAPE FEAR CHEMICALS/HL BRICE ELIZABETHTOWN, NC 0		
Agency ID:	SIS090000456		
Facility Name:	CAPE FEAR CHEMICALS/HL BRICE		
Facility City:	ELIZABETHTOWN		
Facility State:	NC		
Facility County:	BLADEN		
Status:	UNKNOWN		
State Status:	EVALUATION PENDING		
Pollutant1:	NOT REPORTED		



* VISTA address includes enhanced city and ZIP.

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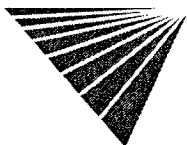
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UNMAPPED SITES CONT.

Pollutant2:	<i>NOT REPORTED</i>
Pollutant3:	<i>NOT REPORTED</i>
Fields Not Reported by the Source Agency for this Site:	<i>Epa Id(1), Facility Address(1), Facility Zip(1), Facility Type(1), Lead Agency(1), Site Desc(1)</i>

VISTA Address*:	WAM SQUAM HWY 701 53 ELIZABETHTOWN, NC 0	VISTA ID#:	65243082
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STATE LUST - State Leaking Underground Storage Tank / SRC# 357	EPA/Agency ID:	N/A
Agency Address:	<i>SAME AS ABOVE</i>	
Facility Name:	<i>WAM SQUAM</i>	
Facility Address:	<i>HWY 701 53</i>	
Facility City:	<i>ELIZABETHTOWN</i>	
Facility State:	<i>NC</i>	
Facility County:	<i>BLADE</i>	
Incident No:	<i>21942</i>	
Facility ID	<i>0-024091</i>	
Region:	<i>FAYETTEVILLE</i>	
Date Occurred:	<i>7/2/92</i>	
Submitted Date:	<i>7/10/00</i>	
GW Contamination (Y Or N)	<i>Y</i>	
Description of Incident:	<i>SOIL AND GW SAMPLES CONFIRMED CONTAMINATION., THIS IS CONSIDERED HIGH PRIORITY SITEAS AN ONSITE SUPPLY WELL WAS REPORTED IN THE 1992 ASSESSMENT REPORT.</i>	
Owner Name:	<i>CHRIS CAMPBELL</i>	
Owner Company:	<i>CAMPBELL OIL CO.</i>	
Owner Address:	<i>P.O. BOX 637 ELIZABETHTOWN , NC 28337</i>	
Owner County	<i>BLADE</i>	
Ownership:	<i>PRIVATE</i>	
Operation Type	<i>COMMERCIAL</i>	
Material 1:	<i>GASOLINE</i>	
Source:	<i>LEAK, UST</i>	
Type:	<i>GASOLINE/DIESEL</i>	
Location:	<i>FACILITY</i>	
Setting	<i>RURAL</i>	
Risk Site	<i>Y</i>	
Site Priority	<i>H</i>	
Priority Code	<i>H</i>	
Priority Update	<i>7/10/00</i>	
Samples Include	<i>1</i>	
Latitude	<i>343856</i>	
Longitude	<i>783123</i>	
Pirf Or Min Soil:	<i>PIRF</i>	
Source:	<i>LEAK, UST</i>	
Type:	<i>GASOLINE/DIESEL</i>	



*** VISTA address includes enhanced city and ZIP.**

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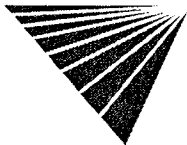
UNMAPPED SITES CONT.

Risk Site	Y
Priority Code	H
Incident Phase:	RESPONSE
Ownership:	PRIVATE
Operation Type	COMMERCIAL
Submitted Date:	7/10/00
Pirf Or Min Soil:	PIRF
Incident Name:	WAM SQUAM
County:	BLADE
Region:	FAY
Date Entered:	7/7/00
Source:	3
Incident Phase:	RESPONSE
Fields Not Reported by the Source Agency for this Site:	Major Soil Contamination (Y Or N)(1), Owner Phone(1), Material 2(1), Material 3(1), Amount Lost 1(1), Amount Lost 2(1), Amount Lost 3(1), Amount Recovered 1(1), Amount Recovered 2(1), Amount Recovered 3(1), No of Wells Affected(1), Closure Require Date(2), Nov Issued(2), Norr Issued(2), Facility ID(1), Last Modified(1), Corrective Action Plan(1), Close Or Out Report(1)

VISTA Address*:	WORSLEY OIL BULK PLANT HWY 701 S ELIZABETHTOWN, NC 0	VISTA ID#:	65262344
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STATE LUST - State Leaking Underground Storage Tank / SRC# 357	EPA/Agency ID:	N/A
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Agency Address:	SAME AS ABOVE
Facility Name:	WORSLEY OIL BULK PLANT
Facility Address:	HWY 701 S
Facility City:	ELIZABETHTOWN
Facility State:	NC
Facility County:	BLADE
Incident No:	17486
Facility ID	0-022768
Region:	FAYETTEVILLE
Date Occurred:	6/27/96
Submitted Date:	6/26/97
Description of Incident:	LEAK DETECTED WHEN USTS WEREREMOVED
Owner Name:	DON QUINN
Owner Company:	WORSLEY OIL COMPANY
Owner Address:	PO BOX 3227 WILMINGTON, NC 28406
Owner County	NEWHA
Ownership:	PRIVATE
Operation Type	COMMERCIAL
Material 1:	GASOLINE
Source:	LEAK, UST
Type:	GASOLINE/DIESEL
Location:	FACILITY



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Report ID: 683404901

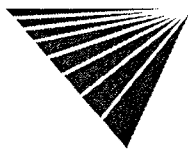
Date of Report: January 21, 2002

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UNMAPPED SITES CONT.

Setting	RURAL
Risk Site	Y
Site Priority	10E
Priority Code	L
Priority Update	4/15/98
Pirf Or Min Soil:	MIN_SOIL
Source:	LEAK, UST
Type:	GASOLINE/DIESEL
Risk Site	Y
Priority Code	L
Incident Phase:	CLOSED OUT
Ownership:	PRIVATE
Operation Type	COMMERCIAL
No of Wells Affected	0
Submitted Date:	6/26/97
Pirf Or Min Soil:	MIN_SOIL
Incident Name:	WORSLEY OIL BULK PLANT
County:	BLADE
Region:	FAY
Date Entered:	7/3/97
Source:	3
Last Modified	3/23/99
Incident Phase:	CLOSED OUT
Close Or Out Report	6/26/97
STATE LUST - State Leaking Underground Storage Tank / SRC# 357	
EPA/Agency ID:	N/A
Agency Address:	WORSLEY OIL CO -BULK PLANT HWY 701 S ELIZABETHTOWN, NC 0
Facility Name:	WORSLEY OIL CO -BULK PLANT
Facility Address:	HWY 701 S
Facility City:	ELIZABETHTOWN
Facility State:	NC
Facility County:	BLADE
Incident No:	18300
Facility ID	0-022768
Region:	FAYETTEVILLE
Date Occurred:	6/27/96
Submitted Date:	6/26/97
Description of Incident:	LEAK DETECTED DURING UST REMOVAL
Owner Name:	DON QUINN
Owner Company:	WORSLEY OIL CO.
Owner Address:	PO BOX 3227 WILMINGTON, NC 28406
Owner County	NEWHA
Ownership:	PRIVATE
Operation Type	COMMERCIAL



* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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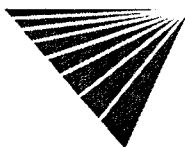
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UNMAPPED SITES CONT.

Material 1:	<i>GASOLINE</i>
Source:	<i>LEAK, UST</i>
Type:	<i>GASOLINE/DIESEL</i>
Location:	<i>FACILITY</i>
Setting	<i>RURAL</i>
Risk Site	<i>N</i>
Site Priority	<i>10E</i>
Priority Code	<i>E</i>
Pirf Or Min Soil:	<i>MIN_SOIL</i>
Source:	<i>LEAK, UST</i>
Type:	<i>GASOLINE/DIESEL</i>
Risk Site	<i>N</i>
Priority Code	<i>E</i>
Incident Phase:	<i>CLOSED OUT</i>
Ownership:	<i>PRIVATE</i>
Operation Type	<i>COMMERCIAL</i>
No of Wells Affected	<i>0</i>
Submitted Date:	<i>6/26/97</i>
Pirf Or Min Soil:	<i>MIN_SOIL</i>
Incident Name:	<i>WORSLEY OIL BULK PLANT</i>
County:	<i>BLADE</i>
Region:	<i>FAY</i>
Date Entered:	<i>2/18/98</i>
Source:	<i>3</i>
Last Modified	<i>3/23/99</i>
Incident Phase:	<i>CLOSED OUT</i>
Close Or Out Report	<i>6/26/97</i>
Fields Not Reported by the Source Agency for this Site:	<i>GW Contamination (Y Or N)(1), Major Soil Contamination (Y Or N)(1)1), Material 3(2), Amount Lost 1(2), Amount Lost 2(2), Amount Lost 3(2), Amount Recovered 1(2), Amount Recovered 2(2), Amount Recovered 3(2), Samples Include(2), Latitude(2), Longitude(2), Closure Require Date(4), Nov Issued(4), Norr Issued(4), Facility ID(2), Corrective Action Plan(2), GW Contamination (Y Or N)(1), Owner Phone(1), Material 2(1), Priority Update(1)</i>

VISTA Address*:	JOHNSON 76 HWY 53 ELIZABETHTOWN, NC 28337	VISTA ID#:	5347393
------------------------	--	-------------------	----------------

STATE LUST - State Leaking Underground Storage Tank / SRC# 357	EPA/Agency ID:	N/A
Agency Address:	<i>JOHNSON 76 HWY 53 ELIZABETHTOWN, NC 0</i>	
Facility Name:	<i>JOHNSON 76</i>	
Facility Address:	<i>HWY 53</i>	
Facility City:	<i>ELIZABETHTOWN</i>	
Facility State:	<i>NC</i>	
Facility County:	<i>BLADE</i>	
Incident No:	<i>12814</i>	
Facility ID	<i>0-025461</i>	



* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 683404901

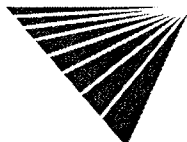
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UNMAPPED SITES CONT.

Region:	FAYETTEVILLE
Date Occurred:	6/22/94
Submitted Date:	10/4/94
Major Soil Contamination (Y Or N)	Y
Description of Incident:	A LEAK WAS DETECTED UPON REMOVAL OF UST.
Owner Name:	HUBERT KINLAW
Owner Company:	SAMPSON BLADEN OIL CO.
Owner Address:	P.O. BOX 367 ELIZABETHTOWN, NC 28337
Owner County	BLADE
Ownership:	PRIVATE
Operation Type	COMMERCIAL
Material 1:	GASOLINE
Source:	LEAK, UST
Type:	GASOLINE/DIESEL
Location:	FACILITY
Setting	RURAL
Risk Site	Y
Site Priority	060C
Priority Code	L
Priority Update	4/15/98
Samples Include	1
Latitude	343850
Longitude	783545
Pirf Or Min Soil:	PIRF
Source:	LEAK, UST
Type:	GASOLINE/DIESEL
Risk Site	Y
Priority Code	L
Incident Phase:	RESPONSE
Ownership:	PRIVATE
Operation Type	COMMERCIAL
No of Wells Affected	0
Submitted Date:	10/4/94
Pirf Or Min Soil:	PIRF
Incident Name:	JOHNSON 76
County:	BLADE
Region:	FAY
Date Entered:	10/6/94
Source:	3
Incident Phase:	RESPONSE
Fields Not Reported by the Source Agency for this Site:	GW Contamination (Y Or N)(1), Owner Phone(1), Material 2(1), Material 3(1), Amount Lost 1(1), Amount Lost 2(1), Amount Lost 3(1), Amount Recovered 1(1), Amount Recovered 2(1), Amount Recovered 3(1), Closure Require Date(2), Nov Issued(2), Norr Issued(2), Facility ID(1), Last Modified(1), Corrective Action Plan(1), Close Or Out Report(1)



*** VISTA address includes enhanced city and ZIP.**

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: **683404901**

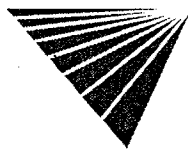
Date of Report: **January 21, 2002**

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UNMAPPED SITES CONT.

VISTA Address*:	MINUTE MAN 17 HWY 701 S ELIZABETHTOWN, NC 0	VISTA ID#:	65251599
STATE LUST - State Leaking Underground Storage Tank / SRC# 357		EPA/Agency ID:	N/A
Agency Address:	SAME AS ABOVE		
Facility Name:	MINUTE MAN 17		
Facility Address:	HWY 701 S		
Facility City:	ELIZABETHTOWN		
Facility State:	NC		
Facility County:	BLADE		
Incident No:	7915		
Facility ID	0-031716		
Region:	FAYETTEVILLE		
Date Occurred:	10/23/90		
Submitted Date:	6/23/00		
Description of Incident:	UST KEROSENE RELEASE.		
Owner Name:	MAC CAMPBELL		
Owner Company:	CAMPBELL OIL CO.		
Owner Address:	P.O. BOX 637 ELIZABETHTOWN, NC 28337		
Owner County	BLADE		
Ownership:	PRIVATE		
Operation Type	COMMERCIAL		
Material 1:	HEATING OIL		
Source:	LEAK, UST		
Type:	HEATING OIL		
Location:	FACILITY		
Priority Update	6/23/00		
Pirf Or Min Soil:	MIN_SOIL		
Source:	LEAK, UST		
Type:	HEATING OIL		
Incident Phase:	CLOSED OUT		
Ownership:	PRIVATE		
Operation Type	COMMERCIAL		
Submitted Date:	6/23/00		
Pirf Or Min Soil:	MIN_SOIL		
Last Modified	6/23/00		
Incident Phase:	CLOSED OUT		
Close Or Out Report	1/15/197		
Fields Not Reported by the Source Agency for this Site:	GW Contamination (Y Or N)(1), Major Soil Contamination (Y Or N)(1), Owner Phone(1), Material 2(1), Material 3(1), Amount Lost 1(1), Amount Lost 2(1), Amount Lost 3(1), Amount Recovered 1(1), Amount Recovered 2(1), Amount Recovered 3(1), Setting(1), Risk Site(2), Site Priority(1), Priority Code(2), Samples Include(1), Latitude(1), Longitude(1), No of Wells Affected(1), Closure Require Date(2), Nov Issued(2), Norr Issued(2), Corrective Action Plan(1)		



* VISTA address includes enhanced city and ZIP.

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SITE ASSESSMENT PLUS REPORT (EXTENDED BY 1/4 MILE)

DESCRIPTION OF DATABASES SEARCHED

A) DATABASES SEARCHED TO 1 1/4 MILES

NPL
SRC#: 19 VISTA conducts a database search to identify all sites within 1.25 mile of your property.
The agency release date for National Priorities List was October, 2001.

The NPL Report is the US EPA's registry of the nation's worst uncontrolled or abandoned hazardous waste sites. NPL sites are targeted for possible long-term remedial action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980.

SPL
SRC#: 350 VISTA conducts a database search to identify all sites within 1.25 mile of your property.
The agency release date for Annual Report to the North Carolina General Assembly was November, 1998.

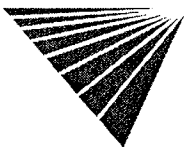
This database is provided by the Department of Environmental Health Natural Resources, Superfund Section. The agency may be contacted at: 919-733-2801.

CORRACTS
SRC#: 14 VISTA conducts a database search to identify all sites within 1.25 mile of your property.
The agency release date for RCRIS Corrective Action Sites was August, 2001.

The CORRACTS database contains information concerning RCRA facilities that have conducted, or are currently conducting a corrective action. A Corrective Action Order is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may also be imposed as a requirement of receiving and maintaining a TSDF permit.

RCRIS-TSDC
SRC#: 556 VISTA conducts a database search to identify all sites within 1.25 mile of your property.
The agency release date for RCRIS TSDs Subject to Corrective Action was August, 2001.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDCs are treatment, storage and/or disposal facilities that are subject to corrective action under RCRA.



B) DATABASES SEARCHED TO 3/4 MILE

CERCLIS
SRC#: 17 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for Comprehensive Environmental Response, Compensation and Liability Information Sys was October, 2001.

The CERCLIS database is a comprehensive listing of known or suspected uncontrolled or abandoned hazardous waste sites. These sites have either been investigated, or are currently under investigation by the U.S. EPA for the release, or threatened release of hazardous substances. Once a site is placed in CERCLIS, it may be subjected to several levels of review and evaluation, and ultimately placed on the National Priorities List (NPL).

NFRAP
SRC#: 18 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for No Further Remedial Action Planned was October, 2001.

The No Further Remedial Action Planned Report (NFRAP), also known as the CERCLIS Archive, contains information pertaining to sites which have been removed from the U.S. EPA's CERCLIS database. NFRAP sites may be sites where, following an initial investigation, either no contamination was found, contamination was removed quickly without 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.

SCL
SRC#: 351 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for Annual Report to the North Carolina General Assembly was November, 1998.

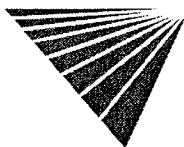
This database is provided by the Department of Environmental Health Natural Resources, Superfund Section. The agency may be contacted at: 919-733-2801.

RCRIS-TSD
SRC#: 12 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for RCRIS Treatment, Storage and Disposal Facilities was August, 2001.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

SWLF
SRC#: 23 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for USGS Solid Waste Landfills was December, 1991.

This database is provided by the United States Geological Survey. The agency may be contacted at: 703-648-5613.



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SWLF
SRC#: 354 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for Inactive and Closed Solid Waste Facilities was December, 2001.

This database is provided by the Dept. of Environmental Health Natural Resources, Solid Hazardous Waste Mgmt. The agency may be contacted at: 919-733-0692.

SWLF
SRC#: 355 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for Solid Waste Facilities was December, 2001.

This database is provided by the Dept. of Environmental Health Natural Resources, Solid Hazardous Waste Mgmt. The agency may be contacted at: 919-733-0692.

LUST
SRC#: 352 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for North Carolina State Trust Fund Sites was November, 2001.

This database is provided by the Department of Environmental Health Natural Resources, Ground Water Operations. The agency may be contacted at: 919-715-6187.

LUST
SRC#: 357 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for Incident Report was November, 2001.

This database is provided by the Department of Environmental Health Natural Resources, Ground Water Operations. The agency may be contacted at: 919-715-6187.

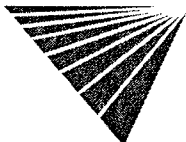
USGS-WELLS
SRC#: 3 VISTA conducts a database search to identify all sites within 3/4 mile of your property.
The agency release date for USGS Water Wells was March, 1998.

The Ground Water Site Inventory (GWSI) database was provided by the United States Geological Survey (USGS). The database contains information for over 1,000,000 wells and other sources of groundwater which the USGS has studied, used or documented during research.

C) DATABASES SEARCHED TO 1/2 MILE

RCRIS-VIOL
SRC#: 11 VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for RCRIS Facilities with Violations was August, 2001.

The Resource Conservation and Recovery Act Information System (RCRIS) identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRIS Violations report contains information concerning facilities that have been cited for violations of RCRA, as well as any enforcement actions taken against the facility.



UST
SRC#: 353

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Underground Storage Tanks was November, 2001.

This database is provided by the Department of Environmental Health Natural Resources, Div of Environmental Mgt. The agency may be contacted at: 919-733-1308. Be advised that some states do not require registration of heating oil tanks, especially those used for residential purposes.

TRIS
SRC#: 2

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Toxic Release Inventory System was January, 1998.

All facilities that manufacture, process, or import toxic chemicals in quantities in excess of 25,000 pounds per year are required to register with the EPA under Section 313 of the Superfund Amendments and Reauthorization Act (SARA Title III) of 1986. Data contained in the TRIS system covers approximately 20,000 sites and 75,000 chemical releases.

D) DATABASES SEARCHED TO 3/8 MILE

ERNS
SRC#: 8

VISTA conducts a database search to identify all sites within .375 mile of your property.
The agency release date for Emergency Response Notification System was December, 2000.

ERNS is a national computer database system that is used to store information on the sudden and/or accidental release of hazardous substances, including petroleum, into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill location, the substance released, and the responsible party.

RCRA-LQG
SRC#: 16

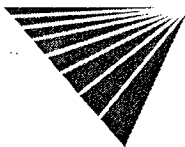
VISTA conducts a database search to identify all sites within .375 mile of your property.
The agency release date for RCRIS Large Quantity Generators was August, 2001.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

RCRIS-SQG
SRC#: 15

VISTA conducts a database search to identify all sites within .375 mile of your property.
The agency release date for RCRIS Small Quantity Generators was August, 2001.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small Quantity Generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.



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RCRIS-NOTI
SRC#: 1298

VISTA conducts a database search to identify all sites within .375 mile of your property.
The agency release date for RCRIS Notifiers was August, 2001.

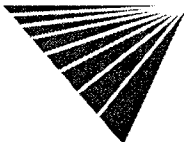
The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRIS Notifiers contains information on formerly regulated RCRA sites with more complete historical information.

SPILLS
SRC#: 356

VISTA conducts a database search to identify all sites within .375 mile of your property.
The agency release date for Incident Report was November, 2001.

This database is provided by the Department of Environmental Health Natural Resources, Ground Water Operations. The agency may be contacted at: 919-715-6187.

End of Report



For more information call VISTA Information Solutions, Inc. at **1 - 800 - 767 - 0403.**
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APPENDIX III

Bladen

ISS

March 8, 1973

Mr. Terry F. Dover
District Sanitarian
Southeastern Regional Office
203 Grace Pittman Building
Fayetteville, North Carolina 28301

Re: Pollution Help Line Report No. 1098

Dear Mr. Dover:

I am attaching a copy of the above report and would like for you to investigate and prepare a report regarding you findings and recommendations concerning this matter.

Very truly yours,

Sidney H. Usry, Chief
Solid Waste & Vector Control Section
Sanitary Engineering Division

SHU:bm
Attachment
cc: Mr. David Cross
Mrs. Jackie Wall

MAR 7 1973

IN REPLYING REFER TO: NO. 109c

POLLUTION HELP LINE REPORT

DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

DATE: March 6, 1973

TIME: _____ AM
PM

NAME OF CALLER: David Cross

ADDRESS: _____
Street P. O. Box

Elizabethtown, N.C. 28337
City Zip

TELEPHONE NUMBER: 862-3117 (day) 862-2374 (evening)

POINT OF POLLUTION: 35 acre fish pond

SOURCE OF POLLUTION: _____

NATURE OF CALL: The above private pond is fed by a state stream and has a spillway. The pond has been in existence for seventeen years and for the first time a greasy skin has been observed on top of the water. The complainant does not know the source of pollution; however, he advised that a sanitary landfill is located 100 yards within the head of the pond.

REPORT REFERRED TO: Sanitary Engr. Div., State Board of Health.

IMMEDIATE ACTION TAKEN: _____

SIGNED Jackie Hall

**STATE BOARD OF HEALTH
SANITARY ENGINEERING DIVISION
RALEIGH, NORTH CAROLINA**

REPORT OF INVESTIGATION OR INSPECTION OF Water pollution of Cross' pond

Place visited Bladen County Date March 14, 19

Address Elizabethtown, North Carolina Time spent 2 hours

By whom Terry F. Dover, District Sanitarian, Solid Waste and Vector Control Section,
Sanitary Engineering Division, State Board of Health

Persons contacted Mr. David Cross, owner
(Owner, agent, tenant, manager, other)

Reason for visit Complaint from Mr. Cross

Copies to:

Mr. David Cross, Post Office Box 307, Elizabethtown, North Carolina
Mrs. Jackie Wall, Pollution Help Line
Mr. Calvin Wicker, Bladen County Health Department, Elizabethtown, North Carolina

REPORT:

On March 14, 1973, Mr. Calvin Wicker of the Bladen County Health Department and I investigated Pollution Help Line complaint #1098. The complaint was from Mr. David Cross concerning possible pollution by the Bladen County landfill of Cross' pond.

Mr. Wicker and I thoroughly checked all runoff from the landfill and found no possible source of contamination.

We met with Mr. Cross at his pond and observed the oil-like skim around the dam area. Further investigation revealed that there was a possibility the skim came from a treatment lagoon for waste from Bladen Slaughterhouse which is also located above the pond. Due to the unusually large amount of rainfall this winter it would be very easy for the lagoon to overflow into the creek which feeds the pond.

Conclusion:

The sanitary landfill operated by Bladen County was not found to be causing pollution. The North Carolina State Board of Health does not have facilities to determine the composition of the skim; therefore, Mr. Joe Millsap of the North Carolina Department of Water and Air Resources was contacted about the problem and promised to investigate the conditions as soon as possible.



NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

December 15, 1998

DIVISION OF WASTE MANAGEMENT



JAMES B. HUNT JR.
GOVERNOR

WAYNE McDEVITT
SECRETARY

WILLIAM L. MEYER
DIRECTOR

Mr. Larry Sessoms, County Manager
County of Bladen
Post Office Box 1048
Elizabethtown, NC 28337

Re: Inactive Hazardous Waste Sites Priority List
Bladen County Landfill
Elizabethtown, Bladen County

Dear Mr. Sessoms:

The site listed above has been included on the November 1998 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites on this list in decreasing order of danger to public health and the environment.

This letter is being sent to you to fulfill our statutory duty to notify those who own and those who at present are known to be responsible for each site on the Priority List. A copy of the Priority List with each site's rank appearing in the left-hand column is attached (sites are listed in order of highest to lowest priority). Please note this letter is simply a notice of the site's inclusion on the priority list and is not an order to conduct any work.

If a responsible party or owner wishes to voluntarily perform site cleanup, that party must enter into an agreement with the Branch to ensure Branch approval. You should not proceed with remedial actions independently. Each voluntary remedial action will be overseen by Branch staff or, at the discretion of the Branch, by approved environmental consultants.

Those who are interested in reviewing the Superfund Section's files on any of these sites may contact Scott Ross at (919) 733-2801, ext. 328, to schedule an appointment. If you are interested in conducting a voluntary cleanup of your site, or if you have any questions, you may contact me at (919) 733-2801, ext. 284.

Sincerely,

Charlotte V. Jesneck, Head
Inactive Hazardous Site Branch
Superfund Section

CVJ/slb(C:\WPWIN60\WPDOCS\ANNUAL98\SPLMRG98.LTR)

Enclosure

DATE: August 22, 1995

SUBJECT: REMOVAL FROM EPA'S CERCLIS INVENTORY

FROM: Matthew J. Robbins, Brownfields Coordinator
Waste Management Division, Region IV

TO: BLADEN CO LDFL
US HWY 701 S
ELIZABETHTOWN
NC 28337

EPA has identified the Brownfields Initiative as one of the Agency's top priorities. The term "brownfields" refers to previously used properties that may lie vacant because potential contamination makes them unmarketable to the private sector. EPA has recently announced a comprehensive Brownfields strategy, including Pilot grants to municipalities, to stimulate economic revitalization.

One part of the strategy has been for EPA to review its complete inventory of Superfund sites. These sites have been screened and determined to require no remedial action under the Federal Superfund Program based on information available as well as on conditions and policies that currently exist. This is to notify you that EPA has removed your facility from EPA's computer inventory known as CERCLIS. THIS DOES NOT INDICATE THAT THE STATE HAS MADE A SIMILAR DETERMINATION.

If you have any questions, please call me at 404/347-5059 ext. 6214.

cc: State Agency

CERCLA

FINAL REPORT

SCREENING SITE INSPECTION, PHASE II
BLADEN COUNTY LANDFILL
ELIZABETHTOWN, BLADEN COUNTY, NORTH CAROLINA
EPA ID #: NCD980502819

*Approved
2/26/91
RALSIE
Earl Boyer*

Prepared Under
TDD No. F4-8902-69
CONTRACT NO. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

DECEMBER 7, 1990

NUS CORPORATION
SUPERFUND DIVISION

Prepared By

Jancie Hatcher
Jancie Hatcher
Project Manager

Reviewed By

Greg Schank for
Bob Donaghue
Assistant Regional
Project Manager

Approved By

Phil Blackwell
Phil Blackwell
Regional Project Manager

EXECUTIVE SUMMARY

The Bladen County Landfill is a 30-acre facility located 1 mile south of Elizabethtown, North Carolina. The facility is currently active and is owned and operated by Bladen County.

The landfill has been active since 1972 and accepted a variety of industrial wastes. Bags, cans, waste lacquer dust, wood debris, fly ash waste, and 5 tons of sludge from an offsite waste treatment pond were all disposed of in the landfill. The total amount of waste accepted is unknown. State monitoring of groundwater beneath the landfill detected iron and manganese at levels exceeding groundwater standards.

The landfill is located in the south-central portion of the Atlantic Coastal Plain Physiographic Province. This area is underlain by three aquifers: the surficial Waccamaw, Black Creek, and Tuscaloosa. The Black Creek is the primary source for potable water in the area.

The groundwater and onsite migration pathways are of greatest concern. Groundwater is the source of drinking water for both customers served by a community water system and for those with private wells. The facility is not fenced, so it is easily accessible to the surrounding population.

The field investigation and sampling showed the presence of various heavy metals, including barium, iron, copper, manganese, and zinc. Toluene was found at elevated concentrations in sediment, groundwater, and waste samples from exposed fly ash piles. Based on this information and available file data, FIT 4 recommends that Phase I of a Listing Site Inspection (LSI) be conducted at the Bladen County Landfill.

2.0 SITE CHARACTERIZATION

2.1 SITE BACKGROUND AND HISTORY

The Bladen County Landfill is located on the eastern side of U.S. Highway 701 South approximately 1 mile south of the Elizabethtown city limits. Geographically the landfill is located at 34°36'05" N latitude and 78°37'01" W longitude (Figure 1) (Ref. 1).

This facility is a sanitary landfill that has been in operation since 1972 (Refs. 1, 2). The landfill is owned and operated by Bladen County, under Solid Waste Permit No. 0901 from the North Carolina Department of Environment, Health, and Natural Resources, Solid Waste Section (Refs. 2, 3). The trench method is used for disposal of wastes. Trenches are excavated to an approximate depth of 10 to 11 feet (Ref. 1). Cogentrics, a utility company that burns coal to generate electricity, has disposed of fly ash wastes at the landfill since 1986 (Ref. 4). Other industrial wastes accepted at the landfill have included trash, paper, split bags, and cans from the Cape Fear Chemical Company, a manufacturer of lawn and garden products. Also accepted were waste lacquer dust, wood debris, and picture frames from Cape Craftsman, a furniture manufacturer (Refs. 5, 6, 7).

In 1973, an oil-like film was found in the dam area of Cross Pond, located within 1 mile downstream from the landfill. The pond's owner thought the film might be related to the landfill. However, a nonsampling investigation of the area by North Carolina state and county health officials indicated that a more likely source was overflow from an upstream slaughterhouse waste lagoon (Ref. 8).

The North Carolina Solid and Hazardous Waste Management Branch has monitored general water quality parameters of the groundwater at the Bladen County Landfill and nearby surface water since at least 1979. In July 1979, a surface water sample from a stream downgradient from the landfill was found to contain arsenic, chromium, copper, lead, and zinc. The sample was very turbid and had a low pH (Ref. 9). However, surface water samples collected during the period from August 1979, to February 1984, had a more neutral pH, and the metals were either present in lower concentrations or not present above the detection limits (Refs. 10, 11, 12). In June 1987, Bladen County contracted Soil and Material Engineers, Inc. (S & ME) to collect a surface water sample downgradient from the landfill at the confluence of an unnamed intermittent stream and Brown's Creek. The sample was analyzed for volatile organic compounds, iron, manganese, and sulfate. No volatile organics were detected. The iron concentration slightly exceeded the North Carolina surface water standard (Ref. 13).

Since at least 1982, three wells were used to monitor groundwater at the landfill. One well consistently had low pH, high conductivity, and high total dissolved solids (Refs. 11, 12, 14). In May 1986, Bladen County was issued a Notice of Violation by the North Carolina Division of Environmental Management (DEM) for violating groundwater standards at the landfill (Ref. 15). The Notice of Violation was based upon elevated concentrations of iron, manganese, and total dissolved solids (Ref. 14). In response to the Notice of Violation, Bladen County contracted S & ME to conduct a hydrogeologic assessment of the landfill. In August 1986, six additional permanent monitoring wells were installed; groundwater was sampled and tested for volatile organics, sulfate, iron, and manganese.

Concentrations were found to be within groundwater standards or within naturally occurring concentration ranges for the Elizabethtown area. S & ME determined that the initial three monitoring wells were improperly constructed; therefore, previous groundwater samples were not truly representative of groundwater conditions at the Bladen County Landfill (Ref. 16). After reviewing the report and Bladen County's response to reported deficiencies in the document, DEM stated that the only apparent chemical of concern in the groundwater in the eastern portion of the landfill was iron, which might be present in large amounts simply because of naturally high iron concentrations. DEM recommended evaluation of groundwater in one more portion of the landfill (Ref. 15). Bladen County subsequently contracted Aquaterra, Inc. to conduct additional groundwater sampling at the western side of the landfill. Samples were analyzed for iron, manganese, sulfate, and total organic carbon. Iron concentrations were again found to be elevated (Ref. 17).

2.2 SITE DESCRIPTION

2.2.1 Site Features

The Bladen County Landfill encompasses an area of approximately 30 acres (Figure 1). An access road leads from the highway to the landfill (Figure 2). There is a gate across the road, but the landfill is not fenced. The road passes a trailer and a steel shed, then continues to the eastern side of the landfill. A dirt road runs along the landfill's eastern border. The northern portion of the landfill appears to be inactive; only tree stumps were noted in the area (Ref. 18). The eastern portion of the landfill is active. Metal debris is located in a central portion, and enclosed fly ash is located in the southwestern area (Ref. 19).

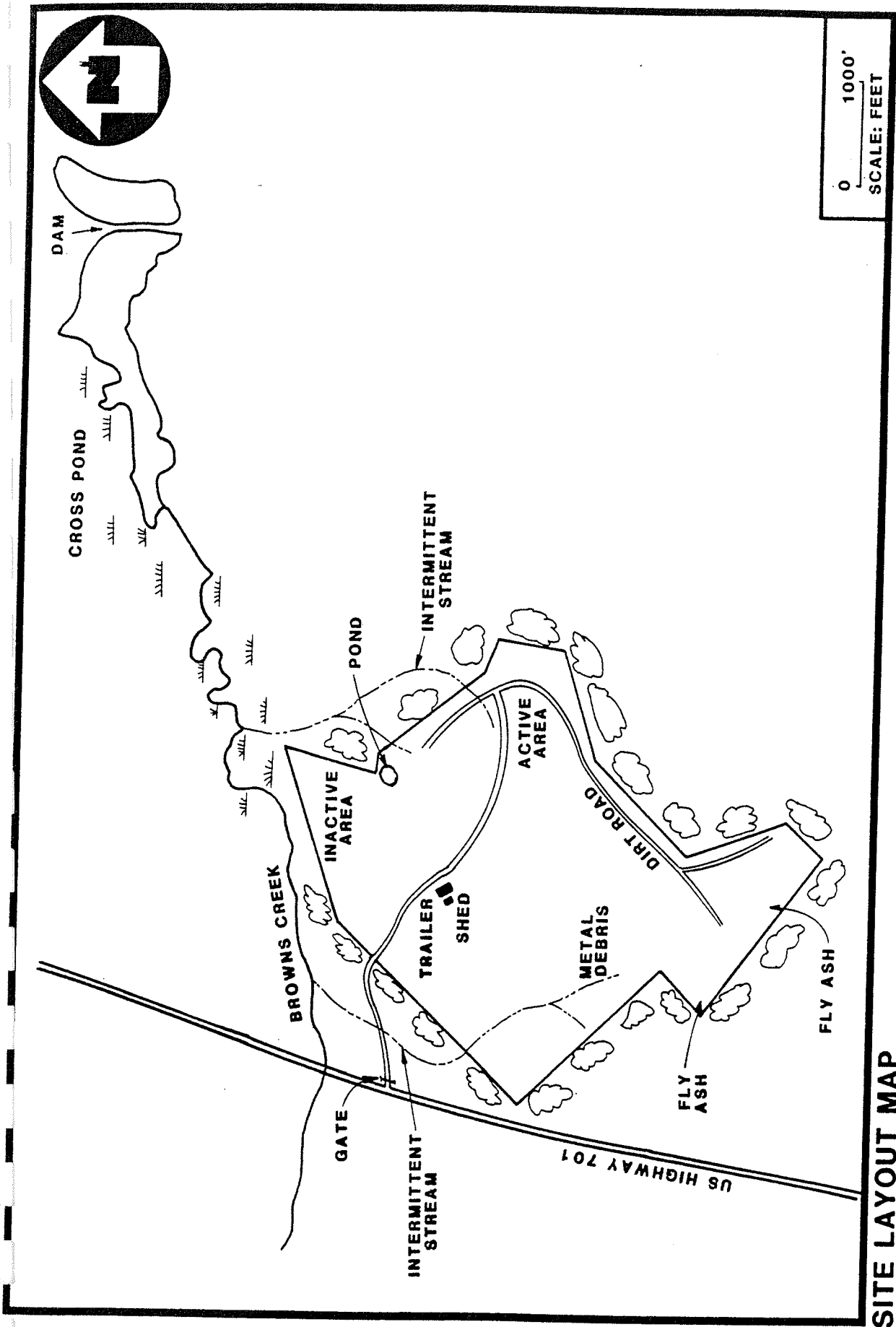
The central portion of the landfill is relatively flat, and its inactive areas are grassy. The landfill's periphery is sloping and wooded. Intermittent streams drain the northeastern portion of the landfill, leading into a silt basin (Refs. 7, 16). Intermittent streams are also located on the western border of

the landfill (Figure 2). A small pond, located between the active and inactive areas on the eastern side, appears to be a retention pond for surface water runoff (Refs. 18, 19). An overflow pipe directs water into an intermittent stream (Ref. 19).

2.2.2 Waste Characteristics

Both domestic and industrial wastes have been disposed in the landfill. Wastes from the Cape Fear Chemical Company include trash and paper as well as split bags and cans; the original contents of the bags and cans were not documented (Refs. 6, 7). Wastes from Cape Craftsman include wood debris, picture frames, and waste lacquer dust, but it is not documented whether the lacquer dust is considered hazardous (Refs. 5, 7). Cogentrics has disposed of fly ash at the landfill since 1986 (Ref. 1). In 1987, approximately 500 tons of fly ash were disposed of weekly (Ref. 20). Approximately 5 tons of sludge from a Cogentrics waste treatment pond were also disposed of in the landfill in 1987, under a permit from the state of North Carolina (Ref. 1). Laboratory analysis of the sludge found no chemical contaminants present above RCRA Extraction Procedure (EP) toxicity levels (Ref. 1).

Wastes at the landfill were buried in trenches 10 to 20 feet deep, then covered with a layer of fine, silty clay about 18 to 24 inches thick (Ref. 7). Because landfill operations began in 1972, it is likely that the landfill is unlined (Ref. 2).



**SITE LAYOUT MAP
 BLADEN COUNTY LANDFILL
 ELIZABETHTOWN, NORTH CAROLINA**

FIGURE 2



TES VIII WORK ASSIGNMENT NO. C04119
REVISED SITE INSPECTION PRIORITIZATION REPORT
BLADEN COUNTY LANDFILL
ELIZABETHTOWN, BLADEN COUNTY, NORTH CAROLINA
EPA ID NO. NCD980502819
WASTELAN NO. 2973

Introduction

Dynamac Corporation (Dynamac) has conducted this Site Inspection Prioritization (SIP) at the request of EPA Region IV under the Technical Enforcement Support (TES VIII) contract, Work Assignment No. C04119. The objective of this SIP has been to evaluate the characteristics of the site and surrounding areas in order to provide a recommendation concerning further activities at the site. In order to achieve this objective, Dynamac has gathered and assimilated all readily available existing information concerning Bladen County Landfill (the landfill) and has either assembled or confirmed data concerning the population and environments in the vicinity of the site. Pertinent elements of the data gathered and evaluated are presented in the sections that follow. Any informational gaps in the data evaluated are also identified.

Site History and Description

Bladen County Landfill is located on the eastern side of U.S. Route 701 in a semirural area approximately 1 mile south of the Elizabethtown city limits in Bladen County, North Carolina (Ref. 1, p. 1). The geographical coordinates are 34° 36'05" north latitude, and 78° 37' 01" west longitude (see Figure 1) (Ref. 2). The normal annual total precipitation in the area is 48 inches, and the mean annual lake evaporation is 42 inches, resulting in a "net annual precipitation of 6 inches" (Ref. 3, pp. 43, 63). The 2-year, 24-hour rainfall is 3.5 inches (Ref. 4, p. 95).

The 30-acre sanitary landfill began operations in 1972 and is owned and operated by Bladen County (Ref. 1, p. 3). Currently active, the landfill operates under a Solid Waste Permit issued by the Solid Waste Section of the North Carolina Department of Environment, Health and Natural Resources (09-01) (Ref. 19). An access road leads from U.S. Highway 701 to the landfill (see Figure 2) (Ref. 1, p. 5). The landfill is separated into 4 areas: eastern, central, northern and southwestern. The eastern portion is active and accepts mainly municipal waste. The central portion contains metal debris, and fly ash has reportedly been disposed in the southwestern portion. The northern portion of the landfill is inactive (Ref. 1, p. 6, 7).

To dispose of waste, trenches are excavated to a depth of 10 to 11 feet then covered with a silty clay to a depth of 18 to 24 inches (Refs. 1, p 3; 5, pp. 18). The landfill mainly accepts municipal waste, but has accepted some industrial waste such as trash, paper, split bags and cans from the Cape Fear Chemical Company, a manufacturer of lawn and garden products. The landfill also accepted waste lacquer dust, wood debris and picture frames from Cape Craftsman, a furniture manufacturer and fly ash generated from the burning of coal at the Cogentrics Company (Cogentrics), a utility company (Ref. 1, p. 3).

Regulatory History and Exclusions

The Bladen County Landfill operates under Solid Waste Permit Number 09-01, issued by the Solid Waste Section of the North Carolina Department of Environment, Health and Natural Resources (Ref. 19). The landfill does not have a RCRA permit, nor has it reportedly ever accepted RCRA wastes (Ref. 5, p. 7, 8).

Three groundwater monitoring wells have been present at the landfill since at least 1982 (Ref. 1, p. 5). Monitoring of one of these wells has consistently shown low pH, high conductivity and high total dissolved solids (TDS). Because of this, Bladen County was issued a Notice of Violation in May 1986 by the North Carolina Division of Environmental Management (DEM) for violating groundwater standards at the landfill (Ref. 1, p. 5).

In response to the Notice of Violation, Bladen County contracted Soil and Material Engineers, Incorporated (S & ME) in 1986 to install six additional monitoring wells. Analysis of samples from the six monitoring wells found concentrations of iron, manganese and total dissolved solids that were reported to be consistent with the naturally occurring conditions in the Elizabethtown area. S & ME concluded that the reason for the initial findings of low pH, high conductivity and high TDS was improperly constructed monitoring wells (Ref. 1, p. 5). After reviewing the new information, DEM concluded that the only constituent of concern was iron and that iron might be present due to high ambient levels. DEM recommended that the groundwater be sampled again for iron. Bladen County contracted Aquaterra, Inc., to conduct additional groundwater sampling. Analysis of these samples again revealed elevated iron levels (Ref. 1, p. 5). The concentration of an analyte is considered elevated if the concentration is greater than or equal to three times the concentration in the background or control sample or greater than or equal to the Minimum Quantitation Limit (MQL) if not detected in the background/control.

Groundwater is the source of drinking water for both community water systems and private wells in the site area. The depths of monitoring wells sampled were not available in file material. Toluene, barium, iron and manganese were found at elevated levels in monitoring wells around the landfill when compared to the background sample (BC-PW-01). Chromium and iron were elevated in a downstream sediment sample from Cross Pond (BC-SD-03), which indicates possible migration of contaminants to this surface water body. Numerous inorganic constituents, along with toluene, were found at elevated levels in subsurface soil samples collected from the landfill. These data indicate observed releases of contaminants to groundwater and surface water.

Sources and Waste Characteristics

The 30-acre landfill has been accepting municipal and some industrial waste since 1972. Cogentrics, a utility company, has been allowed to deposit fly ash generated from the burning of coal since 1986 (Ref. 1, p. 3). Five hundred tons per week of fly ash from the Cogentrics facility were disposed at the landfill in 1986 (Ref. 5, p. 3). Approximately 5 tons of sludge from a Cogentrics waste pond were also disposed at the landfill in 1987 under a permit from the State of North Carolina (Refs. 1, p. 7; 5, p. 19). Other industrial wastes accepted at the landfill are wood debris, lacquer dust and picture frames from Cape Crafts, a furniture maker, and trash, paper, split bags and cans from the Cape Fear Chemical Company (Refs. 1, p. 3; 14). NUS collected a sample from an uncovered fly ash pile revealed the presence of toluene, as well as metals such as barium, chromium, lead, manganese and nickel (Refs. 1, pp. 18-21).

It is believed that the landfill is unlined. Waste disposal involved burying wastes in trenches 10 to 11 feet deep (Ref. 1, p. 3). The trenches in the landfill are reportedly covered with an 18- to 24-inch layer of fine, silty clay (Ref. 1, p. 7).

Groundwater Migration Pathway

The landfill is located in the Inner Coastal Plain region of the Coastal Plain physiographic province (Ref. 7, p. 8). The area is characterized by relatively low-lying flat land with very little relief. The Cape Fear River is located within 3 miles east of the landfill and drains most of central Bladen County (Refs. 2; 7, p. 11).

Geologic units that underlie the landfill area, listed in descending stratigraphic order, include: surficial deposits (also referred to as post-Yorktown deposits), the Peedee Formation, the Black Creek Formation, the

Conclusion/Recommendations

Although contaminants have been detected in soil and shallow groundwater at the site, municipal wells in the area are completed in a confined aquifer. Based on the presence of a minimal potentially affected populations and environments with respect to all pathways, it is recommended that the site evaluation be considered accomplished.

GROUNDWATER DATA

On December 17 - 18, 2001, S&ME personnel collected groundwater data and samples from seven groundwater monitoring wells located at the former landfill site. Prior to sampling and initiation of data collection, each well was opened in order to allow water levels to equilibrate. The water level depth was then measured from the top of each well casing to the nearest .01 foot using an electronic water level indicator. The water level measurements are provided in the attached Table 1. As per our telephone conversation with Mr. Larry Rose in August 2001, a turbidity meter was used to collect turbidity readings from each well. Prior to the collection of the groundwater samples, the pH, temperature, specific conductivity and turbidity were measured for each well volume by a field meter. This data is provided in the attached Table 2 (Groundwater Parameters).

Wells were purged prior to sampling using disposable bailers. Wells were purged by bailing a quantity of water equal to a minimum of three times the volume of standing water in the well, or to dryness. Groundwater parameters (temperature, conductivity, pH and turbidity) were measured after each well volume was purged. These parameters are detailed in Table 2. As per Mr. Rose, the wells were sampled one day after they were purged to allow suspended solids in the water column to settle in order to reduce the possible interference of suspended solids with the RCRA Metal analyses.

After the completion of purging, groundwater samples were collected using the bailer. The groundwater samples were transferred to laboratory pre-prepared bottles containing hydrochloric acid and nitric acid for storage in a prechilled cooler. Hydrochloric acid and nitric acid were used to preserve samples for analysis to detect volatile compounds and metals, as per requirements set forth by US Environmental Protection Agency (EPA) protocols for individual analyses. After the sampling round was completed, samples were transported under standard chain-of-custody protocol to ENCO Laboratories, an analytical laboratory located in Orlando, Florida.

ANALYTICAL METHODOLOGY AND RESULTS

As per Mr. Larry Rose with North Carolina Division of Waste Management, Solid Waste Section, the groundwater samples were analyzed for Appendix I volatile organic compounds and RCRA Metals. Table 3 summarizes the analytical results by well and constituent for the December 2001 sampling event. A copy of the laboratory results and the associated chain-of-custody is attached. The following table shows the listed constituents, detected in the December 2001 sampling event compared to the July 2001 sampling event.

	July 2001		December 2001	
Well No.	Metals (ug/L)	Organics (ug/L)	Metals (ug/L)	Organics (ug/L)
MW-1	Lead 13			
MW-3	Cadmium 3.2			
MW-4				
MW-5				
MW-7				
MW-8	Cadmium 7.0			
MW-9	Cadmium 1.9	c-1,2-Dichloroethene 9.0		c-1,2-Dichloroethene 9.7

Notes:

Constituents not listed were below the detection limit of the analytical method.

Constituents detected in quantities above regulatory levels set forth in 15A NCAC 2L, "Criteria and Standards Applicable to the Groundwaters of North Carolina" are printed in **bold** type.

For comparison purposes Metal concentrations were converted from mg/L to ug/L.

During the July 2001 sampling event, samples were collected immediately after purging of the well. During the December 2001 sampling event, samples were collected the day after purging of the well to allow settlement of suspended solids in the water column.

S&ME appreciates the opportunity to work with you on this project. Should you have any questions or comments, or require additional information, please contact our office at (910) 323-1091.

Sincerely,
S&ME, Inc.

Jamie T. Honeycutt
Environmental Staff

Senior Review by

Michael W. Behen, P.E.
Senior Geotechnical Engineer

TABLE 1 Monitoring Well and Sampling Data: December, 2001

WELL ID	Well Depth BTOC	Water Level BTOC	Approximate Volume Purged (Gallons)
MW-1	41.19	16.29	12.00
MW-3	21.50	10.41	5.5
MW-4	44.04	34.71	4.50
MW-5	30.00	24.42	1.00 ^A
MW-7	15.25	3.33	6.00
MW-8	30.60	17.68	4.00 ^A
MW-9	23.00	9.35	6.50

Notes:

All measurements in feet.

BTOC Below top of casing

^A Well bailed dry prior to removal of three wells volumes

Table 2 Groundwater Parameters: December, 2001

		MW-1	MW-3	MW-4	MW-5 ^C	MW-7	MW-8 ^D	MW-9
Initial	Temperature ^A	67.0	64.0	65.0	61.0	60.0	58.0	59.0
	pH	7.5	6.0	5.5	6.2	6.3	6.0	6.5
	Conductivity ^B	143	679	449	519	542	220	1663
	Turbidity ^E	12.4	5.8	1.6	50	15	49	22
1st Volume	Temperature ^A	66.0	64.0	65.0	61.0	60.0	59.0	61.0
	pH	8.0	6.2	6.0	6.0	6.2	6.5	6.6
	Conductivity ^B	140	754	493	520	578	229	1798
	Turbidity ^E	46.0	106	10.4	255	11	36	43
2nd Volume	Temperature ^A	65.0	64.0	65.0	-	61.0	60.0	62.0
	pH	7.8	6.0	6.1	-	5.9	6.4	7.0
	Conductivity ^B	124	802	490	-	537	221	1770
	Turbidity ^E	36	123	19.3	-	10	144	42
3rd Volume	Temperature ^A	65.0	63	64.0	-	62.0	-	62.0
	pH	7.7	739	6.1	-	5.7	-	7.5
	Conductivity ^B	125	6.0	491	-	541	-	1723
	Turbidity ^E	40	164	33.0		10		37
Turbidity ^E at time of sample collection		0	0.47	0.16	0.85	0	0	0.19

Notes:

- A Measured in degrees Fahrenheit.
- B Measured in micorhms.
- C Well bailed dry after one well volume.
- D Well bailed dry after two well volumes.
- E Measured in NTU.

Table 3 Groundwater Analytical Results: December, 2001

<u>Method</u> Constituent	2L ^B	MW-1	MW-3	MW-4	MW-5	MW-7	MW-8	MW-9
<u>8260</u> c-1,2- Dichloroethene ^A	70 ug/L							9.7

Notes:

Constituents not listed were below the detection limit of the analytical method.

A Quantities given in micrograms per liter (ug/L).

B Regulatory standards as set forth in 15A NCAC 2L, "Classifications and Standards Applicable to the Groundwaters of North Carolina" or in guidance documents issued by the NCDENR Solid Waste Section. Analytical results greater than applicable standards are given in bold print.

APPENDIX IV



S&ME

Correspondence
 Meeting Notes
 Phone Notes

COMMUNICATION RECORD FORM

Date: 1-25-02 Time: 9:30 a.m. Project: Bladen Co. Landfill
 Contact: Mr. Ms. Ikie Guyton Company: _____
 Title: Solid Waste Section
 Phone #: (910) 486-1191
 S&ME Personnel: Jamie T. Honeycutt

SUBJECT: Landfill operations

NOTES:

Mr. Guyton stated that he was the Bladen County Env. Health Supervisor + landfill operator from 1974 to 1987. According to Mr. Guyton municipal solid waste was disposed of at the northern, eastern, south central + western portions of the property. Fly ash was disposed in a small area located north of the shop across the access road, ^{on the} southern portion, ^{of the land} ~~site~~ beneath ~~the~~ what is now the bypass + across the bypass. A small amount of C + D was disposed along the southern edge of the fly ash site across the bypass. Mr. Guyton also stated that underground diesel + gas tanks had been located at the site but believed that they had been removed.

SIGNATURE: Jamie T. Honeycutt DATE: 1-25-02

Copy To: _____ Page 1 of 1

S&ME, Inc.
 3118 Spring Forest Road
 Raleigh, North Carolina 27616

Mailing address:
 P.O. Box 58069
 Raleigh, North Carolina 27658-8069

(919) 872-2660
 (919) 790-9827 fax
 www.smeinc.com

Hurricane Landfill Assessment Questionnaire

Contract Number N200016

County:	Bladen County	Site's DENR ID Number:	NC 09 305 02819
Site Name:	Bladen County Landfill	S&ME, Inc. Project Number:	1048-00-335A

Question	Owner / Occupant (Public Official) Neighbor	Comments
1. Is the Site or any adjoining Site currently used for disposal of trash, construction debris, used vehicles and/or other wastes?	Yes <input checked="" type="radio"/> No <input type="radio"/> Unk' <input type="radio"/>	waste transfer station adjacent the property to the east
2. Has the Site or any adjoining Site been used in the past for disposal of trash, construction debris, used vehicles and/or other wastes?	Yes <input checked="" type="radio"/> No <input type="radio"/> Unk <input type="radio"/>	the site was the former county landfill
3. Are you aware of any asbestos or asbestos containing materials disposed of at the Site?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk <input type="radio"/>	
4. Are you aware of any transformers, capacitors, or any hydraulic equipment that was disposed of on the Site or for which there are any records indicating the presence of PCBs?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk <input type="radio"/>	
5. Have you any knowledge of exposed waste materials on the Site.	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk' <input type="radio"/>	
6. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gal (208 L) or sacks of chemicals located on the Site or at the facility?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk <input type="radio"/>	
7. Are you aware or is there evidence of stained surface water or seeps at the site or adjacent to the Site?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk <input type="radio"/>	
8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the Site?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk <input type="radio"/>	
9. Are there any streams on or flowing next to the Site?	Yes <input checked="" type="radio"/> No <input type="radio"/> Unk <input type="radio"/>	Bound Creek is located north of site
10. Is there currently any stained soil on the Site or unusual odors emanating from the Site?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk <input type="radio"/>	
11. To the best of your knowledge have there been previously any stained soil on the Site or unusual odors emanating from the Site?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk <input type="radio"/>	
12. Are there any areas of stressed vegetation or dead trees on the Site?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unk <input type="radio"/>	
13. Are there currently or to the best of your knowledge have there been previously any registered or unregistered storage tanks (above or underground) located on the Site?	Yes <input checked="" type="radio"/> No <input type="radio"/> Unk <input type="radio"/>	USTs were located on the property down rd question



Hurricane Landfill Assessment Questionnaire

Contract Number N200016

County: <u>Bladen County</u>	Site's DENR ID Number: <u>NC0980502819</u>
Site Name: <u>Bladen County Landfill</u>	S&ME, Inc. Project Number: <u>1040-00-335A</u>

Question	Owner / Occupant / Public Official Neighbor	Neighbor	Comments
14. To the best of your knowledge, have there been any fires on the Site?	Yes	<input checked="" type="radio"/> No	Unk
15. Is the Site or adjoining properties served by a private well or non-public water system?	Yes	<input checked="" type="radio"/> No	Unk
16. If there is a private well non-public water system currently used on or are used at adjoining properties, have there been any unusual tastes, odors, or color in the water? Has the water been tested by the Health Dept.?	Yes	<input checked="" type="radio"/> No	Unk
17. Are you aware or suspect that groundwater is contaminated at the site or from adjoining property to the site?	Yes	<input checked="" type="radio"/> No	Unk
18. Are you aware of any erosion on the Site?	Yes	<input checked="" type="radio"/> No	Unk
19. Does the owner or occupant of the Site have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the Site or any facility located on the Site?	Yes	<input checked="" type="radio"/> No	Unk
20. Miscellaneous Comments			<p>Mr. Guyton was the Env. Health Dept. Supervisor for Bladen County + landfill operator from 1974-1987. He is currently w/ the NCDENR, Solid Waste Section in Fayetteville, N.C.</p>

This questionnaire was completed by: Name: <u>JAMIE T HONEYCUTT</u> Title: <u>ENV. STAFF</u> Address: <u>S+MC</u> <u>409 Chicago Dr. #116 Fayetteville, NC 28306</u> Phone No.: <u>910 323-1091</u> Date: <u>1-25-02</u>	Person(s) responding to the questionnaire: Name: <u>ISAIAH L. GUYTON</u> Address: <u>225 GREEN ST. SUITE 714</u> Phone No.: <u>910-486-1541 x 752</u> Relationship to Site: <u>OPERATOR 1974-1987</u> Date/Time: <u>1-25-02</u> (e.g., Owner, Occupant, Neighbor, Fire Marshal, Sheriff, or other Agency Representative)
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APPENDIX V

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT



MICHAEL F. EASLEY, GOVERNOR
WILLIAM G. ROSS, JR., SECRETARY
WILLIAM L. MEYER, DIRECTOR

MEMORANDUM

TO: Property Owners

FROM: John W. Walch
Environmental Engineer
Division of Waste Management

RE: Investigation of Old Landfills & Open Dumps
NC DENR Contract No. N200016

The North Carolina Department of Environment and Natural Resources' Division of Waste Management (State) has been requested to investigate old landfills and open dumps that may have been impacted by Hurricane Floyd. The area of this investigation includes 37 counties in eastern North Carolina. The State has hired the environmental consulting firm, S&ME. Inc. to perform these investigations.

After reviewing the information contained in the State's files, the State and S&ME suspect that your property and/or a nearby property may have been used as a landfill or open dump at some time in the past. The State requests permission to inspect your property to look for the presence of hazards that may exist because of the property's possible past use as a landfill or open dump.

If you agree to grant State and its contractor, S&ME, permission to inspect your property, please sign the attached form and return it in the enclosed postage paid envelope. Thank you for your assistance with this matter. If you have any questions, please call me a (919) 733-2801, ext. 285.

Attachment

SITE ACCESS PERMISSION FORM

Site Name: Bladen County Landfill
Address: Bladen County
County: Bladen
Site ID Number: NONCD 98 0507819

I grant the State of North Carolina's contractor, S&ME, Inc., permission to inspect my property for the presence of hazards caused by the property's possible past use as a landfill or open dump. I understand that this inspection is for information gathering purposes only and S&ME will not be performing any invasive activities during this inspection.

By signing this form, I am not assuming responsibility for any hazards that are found.

County of Bladen
Property Owner: *[Signature]* Date: 1-8-2002
(signature)

APPENDIX VI

PHOTOGRAPH RECORD

S&ME Project Number: 1040-00-335A Project Name: Bladen County Landfill
Site Location: Highway 701, Elizabethtown, NC



Photograph No. 1: Entrance to site looking east from Highway 701.



Photograph No. 2: Unnamed tributary of Brown's Creek that adjoins the site to the southwest.

PHOTOGRAPH RECORD

S&ME Project Number: 1040-00-335A Project Name: Bladen County Landfill
Site Location: Highway 701, Elizabethtown, NC



Photograph No. 3:	One of three areas of ponding on the landfill cap. This area is approximately 1/10 of an acre.
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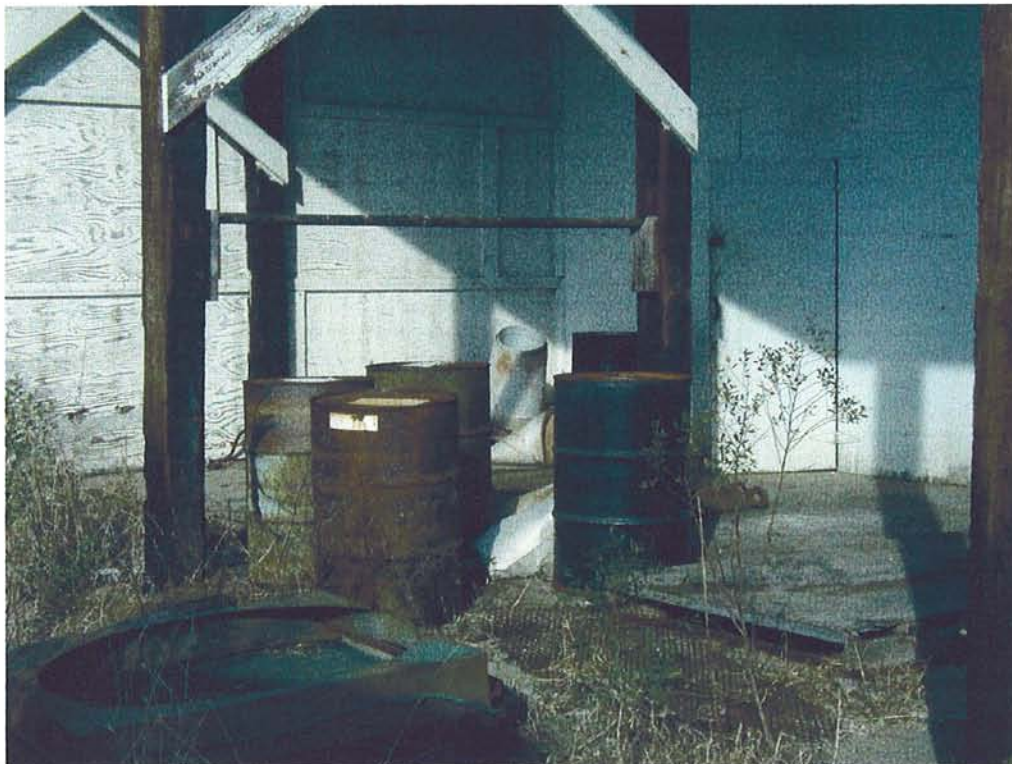
Photograph No. 4:	Drainage ditch that traverses the site. During the reconnaissance water was in the ditch.
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PHOTOGRAPH RECORD

S&ME Project Number: 1040-00-335A Project Name: Bladen County Landfill
Site Location: Highway 701, Elizabethtown, NC



Photograph No. 5: Former garage where the equipment was serviced during the landfills operation.



Photograph No. 6: 55-gallon drums that are located within the garage. Some were filled with waste oil.

PHOTOGRAPH RECORD

S&ME Project Number: 1040-00-335A Project Name: Bladen County Landfill

Site Location: Highway 701, Elizabethtown, NC



Photograph No. 7: Abandoned AST north of the garage. The concrete was stained with oil below the tank.



Photograph No. 8: One of nine monitoring wells that were installed along the perimeter of the site.

PHOTOGRAPH RECORD

S&ME Project Number: 1040-00-335A Project Name: Bladen County Landfill
Site Location: Highway 701, Elizabethtown, NC



Photograph No. 9: View of the site looking west from the approximate high point on the waste disposal area.