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Winston-Salem  
Regional Office

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT, JR.  
GOVERNOR

DIVISION OF HIGHWAYS  
P.O. BOX 25201, RALEIGH, N.C. 27611-5201

R. SAMUEL HUNT III  
SECRETARY

August 10, 1994

Ms. Sherry Knight  
DEM - Groundwater Section  
Winston-Salem Regional Office  
8025 North Point Blvd.  
Winston-Salem, NC 27106

Re: State Project: 8.1570603 (R-0609F)  
County: Guilford  
Description: US 311 Bypass in High Point

Subject: Underground Storage Tank Removal and Closure Assessment

Dear Ms. Knight;

The NCDOT Geotechnical Unit contracted Aquaterra, Inc. in May of 1994 to perform tank removals and closure assessments at three sites located on the project corridor of the above mentioned project. Aquaterra was also to conduct further investigations at this site to determine the extent of petroleum hydrocarbon contamination in the soil.

The enclosed "Underground Storage Tank Removal and Closure Assessment Report" is submitted for your further information. Also enclosed are three (GW/UST-2) forms. Two are for tanks removed and the other is for a UST which was suspected to be on a site, however, one was not discovered. If you have any questions or concerns, please contact me at (919) 250-4088.

Sincerely,  
*Eileen Fuchs*  
Eileen Fuchs  
Geotechnical Unit

EAF/hrs  
Enclosures

cc: Ms. Kelly Gage, Guilford County Emergency Services



RECEIVED  
N.C. Dept. of EHNH

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Winston-Salem  
Regional Office

**Underground Storage Tank Removal  
and Closure Assessment Report  
NCDOT State Project 8.1570603 (R-0609F)  
Parcels 111, 154, and 949  
Guilford County, North Carolina  
July 27, 1994**

*Prepared For*

**North Carolina Department of Transportation  
Geotechnical Unit  
Raleigh, North Carolina**

*Prepared By*

**Aquaterra, Inc.  
Greensboro, North Carolina**



ENVIRONMENTAL CONSULTANTS:  
POST OFFICE BOX 49532 • GREENSBORO, NC 27419 • (910) 852-5003 • FAX (910) 854-9199

July 27, 1994

Ms. Eileen Fuchs  
North Carolina Department of Transportation  
Geotechnical Unit  
Post Office Box 25201  
Century Center  
Raleigh, North Carolina 27611-5201

Reference: Underground Storage Tank Removal and Closure Assessment Report  
NCDOT State Project 8.1570603 (R-0609F)  
Parcels 111, 154, and 949  
Guilford County, North Carolina  
Aquaterra Job No. 4304900

Dear Ms. Fuchs:

Aquaterra, Inc. (Aquaterra) is pleased to submit this report documenting the underground storage tank removal and closure assessment activities at three sites located in Guilford County, North Carolina. This report includes the technical tasks provided to complete the removal and closure assessments, the laboratory analytical procedures and results for the UST sites. Preparation of the GW/UST-2 forms has been initiated by Aquaterra. These forms have been transferred to the NCDOT to be completed and submitted to the North Carolina Department of Environment, Health, and Natural Resources, Division of Environmental Management.

If there are any questions or comments, or if any additional information is required, please contact us at (910) 852-5003.

Sincerely,

AQUATERRA, INC.

*J. Thomas Dade, Jr.*  
J. Thomas Dade, Jr.  
Staff Environmental Scientist

*Susan Kite*  
Susan Kite, P.G.  
Project Geologist/Project Manager

*peer review by*

Kirk B. Pollard  
Senior Project Manager

GR4077  
JTD/SK



**Underground Storage Tank Removal  
and Closure Assessment Report  
NCDOT State Project 8.1570603 (R-0609F)  
Parcels 111, 154 and 949  
Guilford County, North Carolina  
Aquaterra Job No. 4304900**

## **1 Introduction**

Aquaterra, Inc. (Aquaterra) was contracted by the North Carolina Department of Transportation (NCDOT) to conduct the removal and closure assessment of three underground storage tanks (USTs) associated with the following sites: the M.G. and Allen P. Smith property (Parcel 111), the J.A. Goude property (Parcel 154) and the Ina Metters property (Parcel 949), located in Guilford County, North Carolina (see Figure 1). The following USTs were to be removed from the sites:

- Site #1 -M.G. and Allen P. Smith Property (Parcel 111)  
2702-2716 Friends Avenue;  
one 250-gallon gasoline UST (T-1);
- Site #2 - J.A. Goude Property (Parcel 154)  
1712 N. I-85 Business (US 29-70)  
one 1,000-gallon fuel oil UST (T-2); and
- Site #3 - Ina Metters Property (Parcel 949)  
609 New Street  
An unknown UST

Prior to the commencement of closure activities, Aquaterra contacted the North Carolina Department of Environment, Health, and Natural Resources (NCDEHNR), Division of Environmental Management (DEM), the Guilford County Emergency Services (GCES), and the High Point Fire Marshall, regarding removal of the USTs. The GCES was also contacted 48 hours prior to the removal of the USTs at their request.

## **2 Field Activities**

The following work tasks were performed to close the previously identified USTs:

- remove and dispose of the contents remaining in the USTs (40 CFR Part 280.71)
- excavate, remove and dispose of the USTs
- conduct a UST closure assessment in accordance with 40 CFR Part 280 Subpart G and 15A NCAC Chapter 2, Subchapter 2N
- determine where, or if, a UST is located by a vent pipe on Site #3

A&D Environmental and Industrial Services, Inc. (A&D) conducted the excavation and removal of the USTs on June 13, 1994. Approximately 135 gallons of a water-oil mixture were removed from the two USTs and disposed of by A&D (see Non-Hazardous Waste Manifest included in Appendix A).

In addition to soil sampling activities, the closure assessment included screening the in situ and excavated soils during the UST removal activities with an organic vapor analyzer (OVA) for total volatile organic compounds (VOCs) according to the procedures outlined in Appendix B. This procedure is an aid to evaluating the presence or absence of petroleum hydrocarbons in soil.

### **3 Site Investigation**

#### **3.1 Site #1 - M.G. and Allen P. Smith Property (Parcel 111)**

On June 13, 1994, Aquaterra mobilized an environmental scientist to Site #1 to conduct a UST closure assessment. The assessment was conducted in conjunction with the excavation and removal of one 250-gallon gasoline UST (T-1). During the on-site inspection, one 550-gallon gasoline UST (T-1) was identified (see Figure 2). The excavation and disposal activities were performed by A&D. Tank disposal manifests are provided in Appendix A.

Prior to the removal of the UST, the soils on top of and around UST T-1 were excavated and removed. UST T-1 measured approximately 6 feet (length) by 3.6 feet (diameter). After the UST was removed, it was visually assessed by an environmental scientist and was observed to be pitted, but no holes were noted. The soils in the excavation of UST T-1 were fine grained sands and silt. No petroleum odors were noted in the soils. Apparent groundwater was not observed to be present in the excavation.

Following removal of the UST from the pit, two pit bottom soil samples (T1-N and T1-S) were collected from beneath former UST T-1 at a depth of approximately 7.0 feet below ground surface (see Figure 2) using a backhoe bucket. OVA readings of soil samples T1-N and T1-S were less than 1.0 part per million (ppm) for both samples (see Table 1). The two samples were transferred to an analytical laboratory to be analyzed for total petroleum hydrocarbons (TPH) by gas chromatography (GC) using SW-846 Extraction Methods 3550 and 5030 as sample preparation.

#### **3.2 Site #2 - J.A. Goude Property (Parcel 154)**

On June 13, 1994, Aquaterra mobilized an environmental scientist to Site #2 to conduct a UST closure assessment in conjunction with the excavation and removal of one 1000-gallon heating oil UST. During the on-site inspection, one 550-gallon gasoline UST (T-2) was identified (see Figure 3). Following removal, UST T-2 was measured and was approximately 6 feet (length) by 3.6 feet (diameter). Visual

assessment of the tank revealed extensive pitting, but no visible holes. A distinct, petroleum hydrocarbon odor and staining in the eastern portion of the bottom of the excavation was noted.

Following removal of the UST, two soil samples (T2-E and T2-W) were collected from the bottom of the excavation pit, one at each end of the tank at a depth of approximately 8.0 feet below the ground surface (see Figure 3). OVA readings of soil samples T2-E and T2-W were >1,000 ppm and 9.0 ppm respectively. Approximately 8-10 cubic yards of petroleum hydrocarbon impacted soils were excavated from the east end of UST T-2, and an additional sample (PW-1) was collected at a depth of approximately 8 feet below ground surface following the soil excavation activities (see Figure 3). An OVA reading of 8.0 ppm was obtained from soil sample PW-1. The tank pit excavation measured approximately 6 feet (width) by 12 feet (length). Apparent ground water was not observed in the former UST excavation. The soil samples were transferred to an analytical laboratory to be analyzed for TPH by GC using SW-846 Methods 3550 and 5030 as sample preparation.

### **3.3 Site #3 - Ina Metters Property (Parcel 949)**

On June 13, 1994, Aquaterra mobilized an environmental scientist to Site #3 to conduct a UST closure assessment in conjunction with the excavation and removal of one UST of unknown size and content (see Figure 4). During the on-site investigation however, no UST was found. There was a vent pipe located and distinct, petroleum hydrocarbon odors were noted in the exploratory excavations. A soil sample (SS-1) was collected from the area to document existing conditions at the site. An OVA reading of >1,000 ppm was obtained from soil sample SS-1. The soil sample was transferred to an analytical laboratory to be analyzed for TPH by GC using SW-846 Methods 3550 and 5030 as sample preparation.

## **4 Laboratory Analytical Results**

All soil and ground water samples retained for laboratory analysis were transported to Hydrologic Inc. in Morrisville, North Carolina, according to the procedures described in Appendix B.

### **4.1 Site #1 - M.G. and Allen P. Smith Property (Parcel 111)**

Laboratory analytical results for the soil samples collected from beneath UST T-1 (T1-N and T1-S) did not exhibit TPH levels above the laboratory method detection limit of 1.0 mg/kg for Method 3550 parameters or 2.0 mg/kg for Method 5030 parameters (see Table 1 and Appendix C).

#### **4.2 Site #2 - J.A. Goude Property (Parcel 154)**

Laboratory analytical results for the soil samples collected from beneath UST T-2 (T2-E and PW-1) exhibited TPH levels, identified as diesel, of 40,700 mg/kg and 3.19 mg/kg, respectively (see Table 1 and Appendix C). T2-W did not exhibit TPH levels above the laboratory method detection limit of 1.0 mg/kg for Method 3550. Laboratory analytical results for the soil samples collected from beneath UST T-2 (T2-E, T2-W and PW-1) did not exhibit TPH levels above the laboratory method detection limit of 2.0 mg/kg for Method 5030 parameters (see Table 1 and Appendix C).

#### **4.3 Site #3 - Ina Metters Property (Parcel 949)**

Laboratory analytical results of the soil sample (SS-1) collected from Site #3 exhibited TPH levels of 164 mg/kg according to Extraction Method 5030, but did not exhibit TPH levels above the laboratory method detection limit of 1.0 mg/kg for Method 3550 (see Table 1 and Appendix C).

### **5 Stockpiled Soils**

It is Aquaterra's understanding that the petroleum hydrocarbon impacted soils stockpiled at the J.A. Goude property (Site #2) and their disposal are the responsibility of the NCDOT.

### **6 Conclusions and Recommendations**

#### **6.1 Site #1 - M.G. and Allen P. Smith (Parcel 111)**

Based upon the field investigation and laboratory analytical data, petroleum hydrocarbons have not been identified to be present in the soil in and around the former UST T-1 location. Aquaterra recommends this UST site be considered for clean closure.

#### **6.2 Site #2 - J.A. Goude Property (Parcel 154)**

Based upon the initial field investigation and laboratory analytical data, petroleum hydrocarbons were identified to be present in the soil. However, due to soil excavation activities including the removal of approximately 8-10 cubic yards of petroleum hydrocarbon impacted soil, the soil sample (PW-1) collected after additional excavation in this area did not exhibit TPH levels above the DEM action levels of 40 mg/kg for Method 3550 parameters or 10 mg/kg for Method 5030 parameters. Aquaterra recommends this UST site be considered for clean closure.

**6.3 Site #3 - Ina Metters (Parcel 949)**

Based upon the initial field investigation and laboratory analytical data, petroleum hydrocarbons were identified to be present in the soil. The petroleum hydrocarbon level, identified as gasoline at 164 mg/kg, is above the DEM action level. Aquaterra recommends that additional soil assessment activities be conducted at the site and also that a site sensitivity evaluation (SSE) be performed to determine if an alternate DEM cleanup level would be appropriate.

Aquaterra also recommends that a copy of this report be forwarded to the NCDEHNR and the GCES at the following address:

NCDEHNR, DEM  
Winston-Salem Regional Office  
8025 North Point Blvd.  
Winston-Salem, North Carolina 27106

GCES  
Post Office Box 18807  
Greensboro, North Carolina 27419



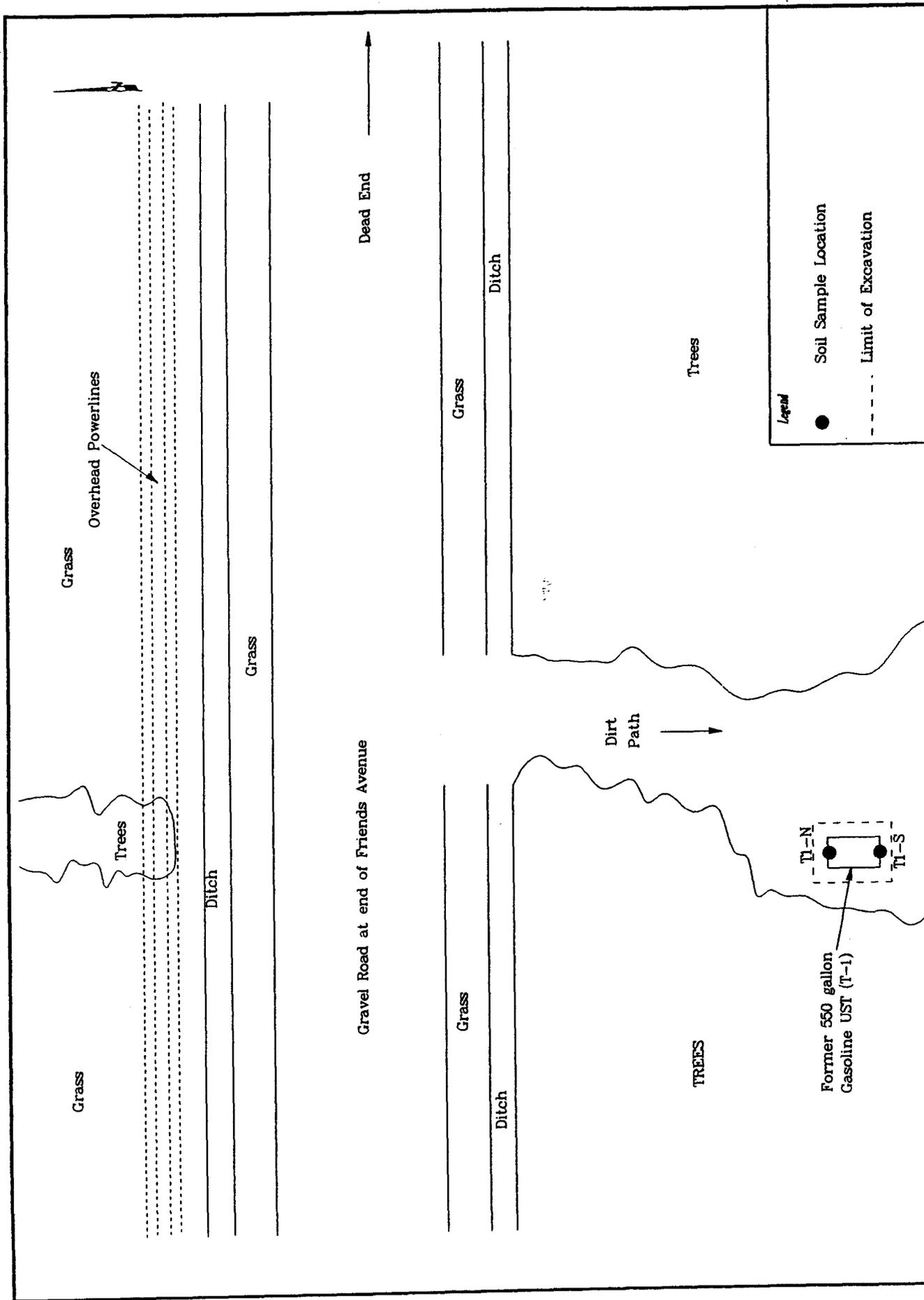
HIGH POINT EAST, N. C.  
 N3552.5—W7952.5/7.5

1950  
 PHOTOREVISED 1982  
 DMA 5055 IV NW - SERIES V842

Site Location Map

Author	JTD	Layers	0	Scale	1:24,000
Drawn		Figures	1	Project	NCDOT Project 81570603 (R-0609F) Guilford County, North Carolina
Date	6-29-94	Revision			

**aquatera**  
 A GREAT LAKES CHEMICAL CORPORATION COMPANY



**Legend**

- Soil Sample Location
- - - - - Limit of Excavation

		Author	JTD	Revising	43049-1	Layers	0	Date	6-29-94	Title	Soil Sample Location Map
		Job No.	4304900	Revisions	2	Figure	2	Scale	1" = 15'	Project	NCDOT Project 8.1570603 (R-0609F) Parcel 111 Guilford County, North Carolina

**Legend**

- Soil Sample Location
- - - Limit of Excavation

Grass

Gravel Drive

Grass

Former 550 gallon Heating Oil UST

T2-E  
PW-1  
T2-W

Bushes

Brick Wall  
Driveway

Bushes

Brick House

Stockpile

To I-85 Business



**AQUATERRA**  
A GREAT LAKES CHEMICAL CORPORATION COMPANY

Author: JTD  
Job No.: 4304900

Permit: 43049-2  
Revision: 3

Layers: 0  
Figure: 3

Date: 6-29-94  
Scale: 1" = 20'

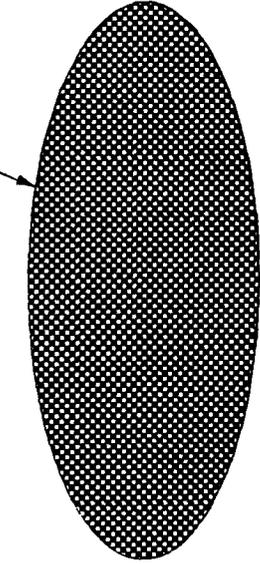
Title: Soil Sample Location Map

Project: NCDOT Project 81570603 (R-0609F) Parcel 154  
Guilford County, North Carolina



Treeline

Trash Pile



SS-1

Tree

Exploratory Excavation

Vent Pipe Location

Concrete Area

New Street

Legend

● Soil Sample Location

⊙ Power Pole



Author JTD  
Job No. 4304900

Drawing 43049-3  
Revision

Layers 0  
Figures 4

Date 6-29-94  
Scale 1" = 10'

Title Soil Sample Location Map

Project NCDOT Project 8.1570603 (R-0609F) Parcel 949  
Guilford County, North Carolina

**Table 1. Soil Sample OVA Readings and Laboratory Analytical Results for NCDOT State Project 8.1570603 (R-0609F), Guilford County, North Carolina.**

Sample ID	Date	Depth (feet)	OVA (ppm)	TPH by GC	
				Method 3550 (mg/kg)	Method 5030 (mg/kg)
<i>Site #1 M.G. and Allen P. Smith Property (Parcel 111)</i>					
T1-N	06-13-94	7.0	BAB	<1.0	<2.0
T1-S	06-13-94	7.0	BAB	<1.0	<2.0
<i>Site #2 J.A. Goude Property (Parcel 154)</i>					
T2-E	06-13-94	8.0	>1,000	40,700	<2.0
T2-W	06-13-94	8.0	9.0	<1.0	<2.0
PW-1	06-13-94	8.0	8.0	3.19	<2.0
<i>Site #3 Ina Metters Property (Parcel 949)</i>					
SS-1	06-13-94	4	>1,000	<1.0	164

*Analytical Laboratory: Hydrologic, Inc.  
Morrisville, North Carolina*

*BAB = Below Ambient Background*

*Aquaterra Job No. 4304900  
GR4077*

# A & D Environmental and Industrial Services

Post Office Box 484  
High Point, NC 27261  
(910) 434-7750  
Fax: (910) 434-7752

## NON-HAZARDOUS WASTE MANIFEST

Manifest # Job # AD74235  
 Generator: MC. DOT (Right of Way)  
1712 I 85 Business Rd  
High Point

Date: 6/13/94  
 Phone No: Aquaticap 852 5003  
 EPA ID No: WPA  
 Contact: Sue K...

Process which generated waste: UST

I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Date 6/13/94 Signature \_\_\_\_\_

Description of Waste	Circle Form	Quantity	Container		
			Circle Units	No.	Type
fuel oil	<input type="radio"/> Solid <input checked="" type="radio"/> Liquid <input type="radio"/> Gas <input type="radio"/> Sludge	60 gal	<input checked="" type="radio"/> Gallons <input type="radio"/> Cu-Yards <input type="radio"/> Pounds <input type="radio"/> Tons	UT-3	VAL TRUCK

Transporter: ADA Environmental & Ind. Ser.  
P.O. 484  
High Point, NC 27261  
 Vehicle License Tag Number(s): A58567

Unit Numbers: UT 3  
 Phone No: 910 434 7750  
 EPA ID No: WPA  
 Container: VAL TRUCK

I certify that the specified waste was transferred in a registered (licensed) vehicle to the disposal treatment, storage, or disposal facility named below and was accepted.

Pick-up Driver's Signature: [Signature] Date: 6/13/94  
 Delivering Driver's Signature: [Signature] Date: 6/13/94

Facility: ADA Environmental  
215 Lakeside Rd  
High Point, NC 27263  
 Handling Method: \_\_\_\_\_

Phone No: \_\_\_\_\_  
 Contact: \_\_\_\_\_

I certify that the Transporter above delivered the specified material to this facility and was accepted and properly handled in the above manner. We are authorized and qualified by the State of \_\_\_\_\_ to handle this material.

Date: 6/13/94 Signature: [Signature]  
 ORIGINAL - Destination Retain    COPY 2 - Return to Generator    COPY 3 - Transporter Retain    COPY 4 - Generator Retain

# A & D Environmental and Industrial Services

Post Office Box 484  
High Point, NC 27261  
(910) 434-7750  
Fax: (910) 434-7752

## NON-HAZARDOUS WASTE MANIFEST

Job # AD 94235

Manifest #

Date: 1/13/94

Generator: N.C. DOT (Right of Way)  
2701-2716 Friends Ave  
High Point, N.C.

Phone No: 910 434 8525 013

EPA ID No: N/A

Contact: Guekita

Process which generated waste: U.S.T.

I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Date \_\_\_\_\_ Signature \_\_\_\_\_

Description of Waste	Circle Form	Quantity	Circle Units		
			No.	Container Type	
715 4 sludge	<input type="radio"/> Solid <input type="radio"/> Liquid <input checked="" type="radio"/> Gas <input checked="" type="radio"/> Sludge	75 gal	<input checked="" type="radio"/> Gallons <input type="radio"/> Cu. Yards <input type="radio"/> Pounds <input type="radio"/> Tons	UT-3	Truck

Transporter: 1170 Environmental Ind Ser  
PO Box 1184  
High Point, NC 27261

Vehicle License Tag Number(s) 88339

Unit Numbers: UT-3

Phone No: 910 434 7750

EPA ID No: N/A

Container: Vac Truck

I certify that the specified waste was transferred in a registered (licensed) vehicle to the disposal treatment, storage, or disposal facility named below and was accepted.

Pick-up Driver's Signature: [Signature] Date: 1/13/94

Delivering Driver's Signature: [Signature] Date: 1/13/94

Facility: A & D Environmental  
2705 Lakeside Rd  
Archdale, NC 27263

Phone No: 1-910 434 7750

Contact: David L. Lister

Handling Method: \_\_\_\_\_

I certify that the Transporter above delivered the specified material to this facility and was accepted and properly handled in the above manner. We are authorized and qualified by the State of \_\_\_\_\_ to handle this material.

Date: 1/15/94 Signature: [Signature]





# Environmental and Industrial Services

P.O. Box • High Point, NC 27261 • Phone (910) 434-7750 • FAX (910) 434-7752

## TANK DISPOSAL MANIFEST

1) Tank Owner/Authorized Representative: Name and Mailing Address \_\_\_\_\_  
 \_\_\_\_\_  
NC OIT (Smith)  
2706-2716 Fairview Ave  
High Point NC

2) Tank Owner/Authorized Representative: Contact \_\_\_\_\_  
 Phone#: \_\_\_\_\_

### 3) Description Of Tanks:

<u>Tank No.</u>	<u>Capacity</u>	<u>Previous Contents</u>	<u>Comments</u>
<u>#1</u>	<u>550gal</u>	<u>6A Solvent</u>	

4) Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank owner.

Printed/Typed Name

Signature

Month/Day/Year

5) Transporter: The undersigned certifies that the above listed storage tanks have been transported to A&D Environmental and Industrial Services, 2718 Uwharrie Road, Archdale, N.C. 27263.

Quinn Cooke

Quinn Cooke

6-13-94

Printed/Typed Name

Signature

Month/Day/Year

6) Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been cut into scrap pieces and accepted by the metal recycling facility.

Recycling Facility: D H Griffin Recycling Co

Harry Keller

Amy L Keller

Printed/Typed Name

Signature

Month/Day/Year

## **OVA Screening and Soil Sampling Procedures**

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### **Headspace Screening**

Soils are screened with an organic vapor analyzer (OVA) for total volatile organic compounds (VOCs), which may indicate organic or petroleum hydrocarbon contamination. A typical procedure for screening soils involves filling a clean container approximately halfway with soil and sealing the container with aluminum foil. This creates a headspace in which the VOCs in the soil accumulate and equilibrate. After allowing approximately 10 minutes for this processes to occur, the probe of the OVA is then inserted through the aluminum foil seal into the headspace of the container to obtain a VOC reading.

### **Sample Collection Protocols**

Soil samples selected for laboratory analysis are collected into laboratory provided containers appropriate for the parameters being analyzed and are labeled with a minimum of the following information: sampler's name, date of collection, sample number, analysis to be performed, and project number. Soil samples are stored and transported to the analytical laboratory in an insulated cooler chilled to approximately 4°C. To ensure sample integrity, all samples are transported in accordance with EPA chain-of-custody protocols.

H Y D R O L O G I C , I N C .

June 23, 1994

**REPORTING:**

HydroLogic-Morris., Inc.  
2500 Gateway Centre  
Suite #900  
Morrisville, NC 27560

Attention: Pomeroy Smith

**INVOICING:**

HydroLogic-Morris., Inc.  
2500 Gateway Centre  
Suite #900  
Morrisville, NC 27560

**PROJECT NUMBER:** FL94-7758

**DATE COMPLETED:** June 23, 1994

**DATE RECEIVED:** June 15, 1994

**PROJECT DESCRIPTION:**

#4304900/DOT Parcels--6 soil samples to be analyzed for 3550/5030, sampled on 06/13/94.

Enclosed is the laboratory report for the project described above. If you have any questions or if we can be of further assistance, please feel free to contact Billie Wakefield. We appreciate your business and look forward to serving you again soon.

Respectfully,

  
Benjamin Carl Esterle  
Laboratory Director

H Y D R O L O G I C , I N C .

COMPANY NAME: HydroLogic-Morris., Inc.  
COMPANY PROJECT NUMBER: #4304900/DOT PARCELS  
  
HYDROLOGIC PROJECT NUMBER: FL94-7758  
HYDROLOGIC SAMPLE NUMBER: 7758  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: T1-N  
DATE SAMPLED: 6/13/94  
DATE EXTRACTED: 6/15/94  
DATE/TIME ANALYZED: 6/16/94 6/22/94

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		1.0	BDL
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: HydroLogic-Morris., Inc.  
COMPANY PROJECT NUMBER: #4304900/DOT PARCELS  
HYDROLOGIC PROJECT NUMBER: FL94-7758  
HYDROLOGIC SAMPLE NUMBER: 7759  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: T1-S  
DATE SAMPLED: 6/13/94  
DATE EXTRACTED: 6/15/94  
DATE/TIME ANALYZED: 6/16/94 6/22/94

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		1.0	BDL
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: HydroLogic-Morris., Inc.  
COMPANY PROJECT NUMBER: #4304900/DOT PARCELS  
  
HYDROLOGIC PROJECT NUMBER: FL94-7758  
HYDROLOGIC SAMPLE NUMBER: 7760  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: T2-E  
DATE SAMPLED: 6/13/94  
DATE EXTRACTED: 6/15/94  
DATE/TIME ANALYZED: 6/22/94 6/22/94

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		100	40700
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: GASOLINE-HEAVIER FUEL PRESENT; DILUTION FACTOR X 100

H Y D R O L O G I C , I N C .

COMPANY NAME: HydroLogic-Morris., Inc.  
COMPANY PROJECT NUMBER: #4304900/DOT PARCELS  
  
HYDROLOGIC PROJECT NUMBER: FL94-7758  
HYDROLOGIC SAMPLE NUMBER: 7761  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: T2-W  
DATE SAMPLED: 6/13/94  
DATE EXTRACTED: 6/15/94  
DATE/TIME ANALYZED: 6/16/94 6/22/94

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		1.0	BDL
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: HydroLogic-Morris., Inc.  
COMPANY PROJECT NUMBER: #4304900/DOT PARCELS  
  
HYDROLOGIC PROJECT NUMBER: FL94-7758  
HYDROLOGIC SAMPLE NUMBER: 7762  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: PW-1  
DATE SAMPLED: 6/13/94  
DATE EXTRACTED: 6/15/94  
DATE/TIME ANALYZED: 6/16/94 6/22/94

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		1.0	3.19
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: HydroLogic-Morris., Inc.  
COMPANY PROJECT NUMBER: #4304900/DOT PARCELS  
HYDROLOGIC PROJECT NUMBER: FL94-7758  
HYDROLOGIC SAMPLE NUMBER: 7763  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: SS-1  
DATE SAMPLED: 6/13/94  
DATE EXTRACTED: 6/15/94  
DATE/TIME ANALYZED: 6/16/94 6/22/94

METHOD TPH 3550/5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Diesel		1.0	BDL
Gasoline		125	164

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: GASOLINE-DILUTION FACTOR X 100; DIESEL-HEAVY OIL PRESENT



942103

PROJECT NAME: DOT Parcels (111, 154, 949) REPORT TO: Susan Kite  
 ADDRESS: Hight Point AFFILIATION/LOCATION: Aquaterria / Greensboro  
 JOB NUMBER: 4304900 PHONE: (910) 852-5003  
 SAMPLED BY (PRINT): T.D. Doble P.O. # / BILLING REFERENCE: G-NC 2904

TURNAROUND:  NORMAL  5-DAY  OTHER (SPECIFY):

REQUESTED DUE DATE:

SAMPLER'S SIGNATURE:  
*T.D. Doble*

SAMPLE ID	SAMPLE LOCATION	DATE	TIME	MATRIX		
				WATER	SOIL	OTHER
T1-N	Parcel #111	6/13/94	10:25		X	
T1-S	Parcel #111	}	10:25		}	
T2-E	Parcel #154		11:05			
T2-W	Parcel #154	}	11:05		}	
PW-1	Parcel #154		11:35			
SS-1	Parcel #949		3:15			

ANALYSES REQUEST  
 UNPRESERVED  
 H<sub>2</sub>SO<sub>4</sub>  
 HNO<sub>3</sub>  
 HCl  
 NO<sub>3</sub>  
 PH < 2 OR > 12  
 VIN

94-11758

TEMPERATURE BLANK 3.8 °C

RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME	AIRBILL #
<i>J. Thomas Doble Jr.</i>	<i>J. K.</i>	6-14-94	11:15	
<i>T.D. Doble</i>	<i>J. K.</i>	6-14-94	11:15	
<i>J. K.</i>	<i>J. K.</i>	6-14-94	11:15	
<i>J. K.</i>	<i>J. K.</i>	6-14-94	11:15	