



ECS CAROLINAS, LLP
Geotechnical • Construction Materials • Environmental

March 16, 2006

Mr. Mike Theodore
Land Development Resource Group
4503 Oakmoor Drive
Greensboro, NC 27406

Reference: UST Closure Report
1491 Union Cross Road
Kernersville, North Carolina
ECS Project No. G-12079A

Dear Mr. Theodore:

As authorized by your acceptance of our Proposal No. 9466-P dated February 23, 2006, Engineering Consulting Services, Ltd. (ECS) has completed the report of underground storage tank (UST) closure for one approximate 550-gallon UST located at 1491 Union Cross Road, located in Kernersville, North Carolina (Figure 1). Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations.

BACKGROUND INFORMATION

One approximate 550-gallon UST, used for home heating oil storage, is located at 1491 Union Cross Road. The UST is owned by Mr. Byron Smith.

ECS was contracted by Land Development Resource Group to collect the confirmation soil samples from beneath the UST subsequent to its removal by others. Background information was obtained by telephone conversation between Mr. Mike Theodore, agent for Land Development Resource Group, and Mr. Jason Ricks of ECS.

FIELD ACTIVITIES

ECS mobilized to the site on February 23, 2006 to collect the confirmation soil samples from beneath the UST subsequent to its removal by others. The UST was located on the southwest exterior corner of a residence located on the site. Two soil samples (S-1 and S-2) were collected from the floor of the UST basin, each at approximately 6 feet below grade. Figure 2 shows the approximate soil sample locations. The UST basin was not backfilled until after the receipt of soil analytical results.

SOIL SAMPLING ACTIVITIES

Soil samples S-1 and S-2 were collected from the backhoe bucket, approximately one foot beneath either end of the UST, and placed in resealable plastic bags for the purpose of field screening. The plastic bags were placed in a warm location for approximately 10 minutes to allow the headspace of the bags to equilibrate with the soil sample. The probe of a Foxboro Model 1000B Toxic Vapor Analyzer (TVA) was then inserted into the bags and the bags were immediately resealed using finger pressure. The

1491 Union Cross Road
Kernersville, North Carolina
ECS Project G-12079A
March 16, 2006

maximum TVA reading for soil samples S-1 and S-2 was 5.82 and 6.57 parts per million (ppm), respectively.

The soil samples were collected by an ECS professional who wore a new pair of disposable nitrile gloves during the sample collection process. The samples were appropriately packaged by an ECS professional and delivered to Research and Analytical Laboratories, Inc. (R&A) in Kernersville, North Carolina for analysis. A chain-of-custody record was maintained throughout the sample collection and transportation process and is attached.

LABORATORY ANALYTICAL RESULTS

Soil samples S-1 and S-2 were analyzed for gasoline and diesel range total petroleum hydrocarbons (TPH) using EPA Methods 8015/5035 and 8015/3550, respectively. The North Carolina Department of Environment and Natural Resources (NCDENR) soil TPH Action Level is 10 mg/kg. TPH was not detected above the NCDENR action limits in soil samples S-1 and S-2. A summary of the soil analytical results is included in Table 1. The laboratory data sheets are attached.

Conclusions and Recommendations

ECS was contracted to assist Land Development Resource Group with the collection of soil samples from beneath a UST removed by others and located at 1491 Union Cross Road. The laboratory analytical results for soil samples S-1 and S-2 suggest that the soil collected from beneath the former UST basin, has not been impacted by the UST. No further assessment in the vicinity of this UST is recommended.

A UST located at 1455 Union Cross Road was also removed on February 23, 2006. Soil sample S-3 was collected subsequent to the removal of this UST. The analytical results for this sample are included in the laboratory data sheets located in the Appendix. A report will be issued by ECS, under separate cover, regarding the UST removal at 1455 Union Cross Road and soil sample S-3.

Qualifications of Report

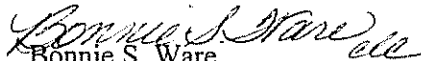
The activities and evaluative approaches used in this assessment are consistent with those normally employed in UST assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities.


1491 Union Cross Road
Kernersville, North Carolina
ECS Project G-12079A
March 16, 2006


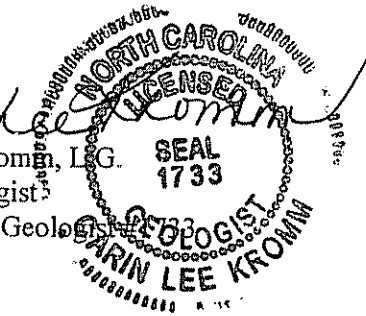
ECS appreciates the opportunity to provide our environmental consulting services to you on this project. If you have any questions concerning this report or this project, please contact us at (336) 856-7150.

Sincerely,

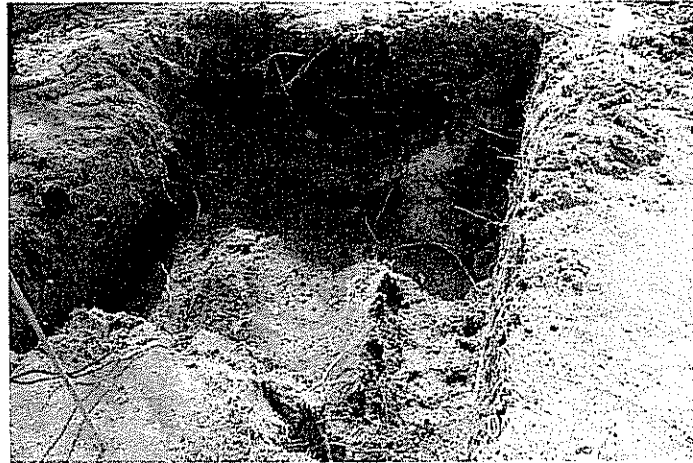
ENGINEERING CONSULTING SERVICES, LTD.


Bonnie S. Ware
Project Geologist

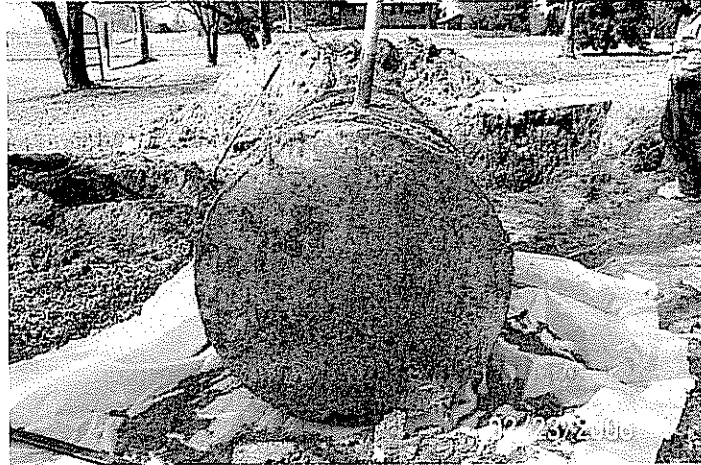

Denise M. Poulos, LSS
Principal Scientist


Carin Lee Kromm, L.G. SEAL 1733
Senior Geologist
NC Licensed Geologist


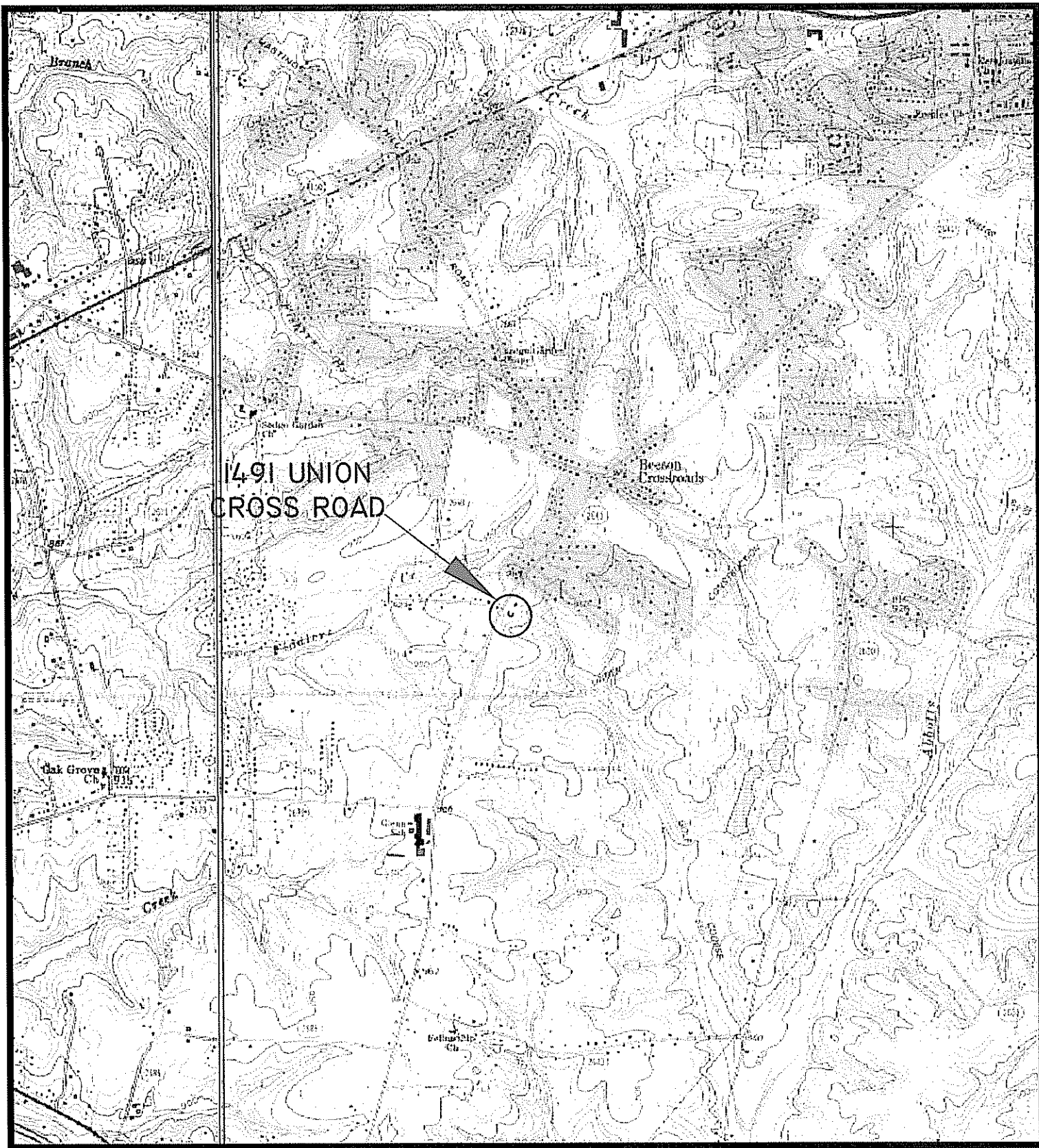
Enclosures: Photographs
 Figure 1 - Site Location Map
 Figure 2 - Soil Sample Location
 Table 1 - Summary of Soil Sampling Results
 Laboratory Data Sheets and Chain of Custody Record



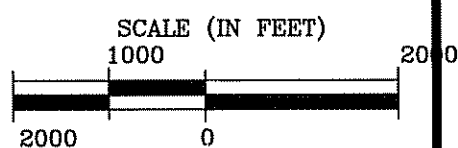
1491 Union Cross Road
Kernersville, North Carolina
ECS Project G-12079A



1491 Union Cross Road
Kernersville, North Carolina
ECS Project G-12079A



1491 UNION
CROSS ROAD



REFERENCE:
USGS TOPOGRAPHIC MAPS
KERNERSVILLE QUADRANGLE DATED 1964
WINSTON SALEM EAST QUADRANGLE
DATED 1948



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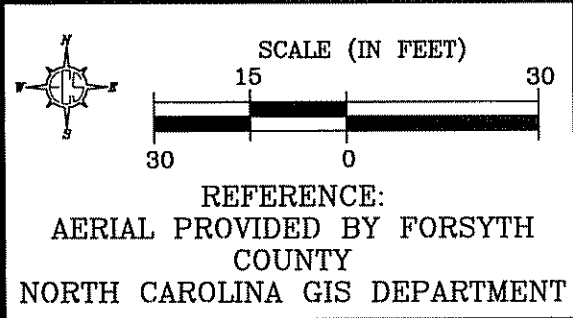
FIGURE 1
SITE LOCATION MAP
1491 UNION CROSS ROAD
KERNERSVILLE, NORTH CAROLINA

ECS PROJECT G-12079A



LEGEND

- = APPROXIMATE SOIL SAMPLE LOCATION BELOW NC ACTION LEVEL
- = APPROXIMATE FORMER 550-GAL. UST LOCATION



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FIGURE 2
SOIL SAMPLE LOCATION MAP
1491 UNION CROSS ROAD
KERNERSVILLE, NORTH CAROLINA

ECS PROJECT G-12079A

TABLE 1 SUMMARY OF SOIL SAMPLING RESULTS

Date: March 16, 2006
Project Name: 1491 Union Cross Road
Project Address: 1491 Union Cross Road
ECS Project Number: G-12079A

Analytical Method			8015/5035	8015/3550
Contaminant of Concern			Gasoline Range (TPH)	Diesel Range (TPH)
Sample ID	Date Collected	Sample Depth (feet)		
S-1	02/23/2006	6	<10	<10
S-2	02/23/2006	6	<10	<10
NCDENR TPH SOIL ACTION LEVEL (mg/Kg)			10	10

 = Concentration exceeds the North Carolina Department of Environment and Natural Resources (NCDENR) Action Level

TPH = Total petroleum hydrocarbons

mg/kg = milligram per kilogram = parts per million (ppm)

BQL = Below laboratory quantitation limits



RESEARCH & ANALYTICAL LABORATORIES, Inc.

Analytical/Process Consultations



March 8, 2006

ECS, Ltd.
6909 International Drive Suite 103
Greensboro, NC 27409
Attention: Jason Ricks

Chemical Analysis for Total Petroleum Hydrocarbons (TPH) for Selected Soil Samples Identified as Union Cross
(An ECS, Ltd. Project #G-12079A, collected 23 February 2006)

<u>Sample Identification</u>	<u>RAL Sample#</u>	<u>Date Taken</u>	<u>Time (hrs)</u>	<u>EPA Method 5035 (mg/kg)</u>	<u>EPA Method 3550 (mg/kg)</u>
S-1	555075	02/23/06	1334	<10	<10
S-2	555076	02/23/06	1336	<10	<10
S-3	555077	02/23/06	1540	14.0	61.4

NR = Not Requested

mg/kg = milligrams per kilogram = parts per million (ppm)

< = less than or Below Quantitation Limits

EPA Method 5035 = Total Petroleum Hydrocarbons as Gasoline

EPA Method 3550 = Total Petroleum Hydrocarbons as Diesel

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS, Ltd.
 Project Name: Union Cross - #G-12079A
 Site Location: RAL # 555077

Laboratory Name: Research & Analytical Laboratories, Inc
 NC Certification # (Lab) 34
 Sample Matrix: Solid

Sample Information and Analytical Results

Method for Ranges: MADEP EPH		Sample Identification		S-3
		Date Collected	Date Received	
EPH Surrogate Standards				
Aliphatic: COD		02/23/06		
Aromatic: o-terphenyl		02/23/06		
EPH Fractionation Surrogates		03/02/06		
#1 2-Fluorobiphenyl		03/02/06		
#2 2-Bromonaphthalene		83.7		
Hydrocarbon Ranges		Dilution Factor		
Units of Measure		RL	Blank	
MDL		N/A	N/A	N/A
C9 - C18 Aliphatics **	mg/kg	10.0	BRL	235
C19 - C36 Aliphatics **	mg/kg	10.0	BRL	43.1
C11 - C22 Aromatics **	mg/kg	10.0	BRL	81.5
Sample Surrogate Acceptance Range	N/A	N/A	40-140%	40-140%
Aliphatic Surrogate % Recovery	N/A	N/A	95	110
Aromatic Surrogate % Recovery	N/A	N/A	90	107
Fractionation Surrogate Acceptance Range	N/A	N/A	40-140%	40-140%
Fractionation Surrogate #1 % Recovery	N/A	N/A	88	54
Fractionation Surrogate #2 % Recovery	N/A	N/A	87	55

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

Were all performance/acceptable standards for required QA/QC procedures achieved? Yes No - Details Attached

Was blank correction applied as a significant modification of the method? Yes No

Were any significant modifications to the EPH method made? No Yes - Details Attached

VPH (Aliphatics/Aromatics) Laboratory Reporting

Client Name: ECS, Ltd.
 Project Name: Union Cross - #G-12079A
 Site Location: RAL # 555077

Laboratory Name: Research & Analytical Laboratories, Inc
 NC Certification # (Lab): 34
 Sample Matrix: Solid

Sample Information and Analytical Results											
Method for Ranges: MADEP VPH		Sample Identification		S-3							
VPH Surrogate Standards		Collection Option		I							
Aliphatic: Fluorobenzene		Date Collected		02/23/06							
Aromatic: Fluorobenzene		Date Received		02/23/06							
		Date Analyzed		03/01/06							
		% Dry Solids		83.7							
		Dilution Factor		I							
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C5 - C8 Aliphatics **	mg/kg	2.84	10.0	BRL	BRL						
C9 - C12 Aliphatics **	mg/kg	0.90	10.0	BRL	BRL						
C9 - C10 Aromatics **	mg/kg	0.66	10.0	BRL	BRL						
Sample Surrogate Acceptance Range		N/A	N/A	70-130%	70-130%	70-130%	70-130%	70-130%	70-130%	70-130%	70-130%
Aliphatic Surrogate Recovery - FID	%	N/A	N/A	109	115						
Aromatic Surrogate Recovery - PID	%	N/A	N/A	92	90						

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

VPH rev. 11/00

Were all performance/acceptable standards for required QA/QC procedures achieved? Yes No - Details Attached

Were any significant modifications to the VPH method made? No Yes - Details Attached



**RESEARCH & ANALYTICAL
LABORATORIES, INC.**

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD 01655

Client: ECS Project ID: Daison Corp Date: 2/23/06 Report To: J. Crick & Associates
 Address: 707 Fritchfield St Contact: Dawn Krick Turnaround: Standard
Greensboro, NC 27419 Phone: (336) 856-7150 Job Number: G-079A
 Quote #: _____ Fax: 856-7160 P.O. Number: _____ Invoice To: _____

Sample ID	Time	Location	Method	8015505	9015350	824505	8270 BM	EPA	VPT	Other
S-1	2:16	1:34	S	X	X	X	X	X	X	
S-2	1:36	1:36	↑	X	X	X	X	X	X	
S-3	3:40	3:40	↑	X	X	X	X	X	X	
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> <p>Please hold Risk Based Pending Verbal Authorization</p> </div>										
<p>NC <input checked="" type="checkbox"/> SC <input type="checkbox"/> Other <input type="checkbox"/></p>										

2/23/06 5:15 Michael (en) 972/06 1740
 Michael (Contrib)
 Anna Ferguson
 R S K ORIGINAL