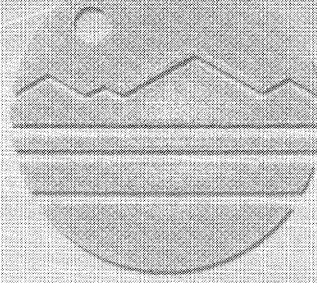
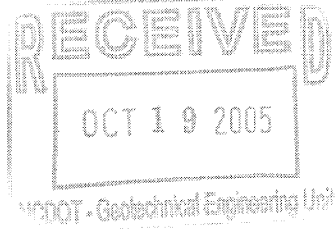


ENVIRONMENTAL



EI

LIMITED PRELIMINARY SITE ASSESSMENT



Parcel #005
Curtis Ray Hanes Property
(Liberty Butcher Shop)
2849 North Liberty Street
Winston-Salem, NC 27105

WBS Element # 34871.1.1
TIP # U-2826A
EI Project No. ENMO050015.00

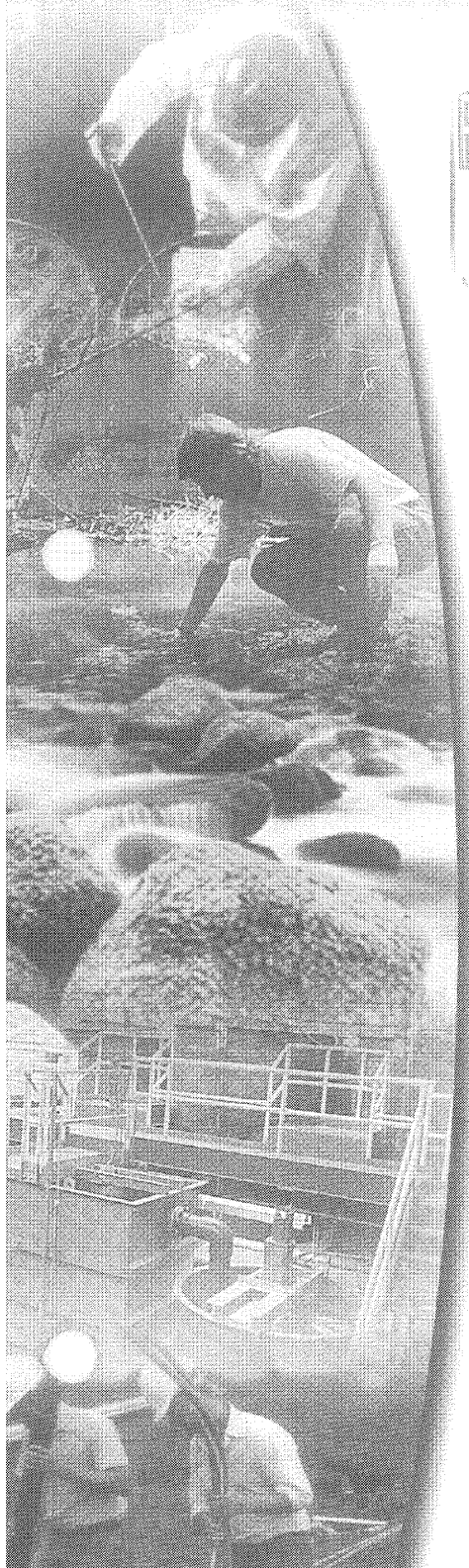
Prepared For:

Gregory A. Smith
State of North Carolina
Department of Transportation
Geotechnical Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, NC 27699-1589

Prepared by:

Environmental Investigations, Inc.
2101 Gateway Centre Boulevard, Suite 200
Morrisville, NC 27560
PH (919) 544-7500 FAX (919) 544-2199

October 18, 2005



LIMITED PRELIMINARY SITE ASSESSMENT

Conducted on

Parcel #005
Curtis Ray Hanes Property
(Liberty Butcher Shop)
2849 North Liberty Street
Winston-Salem, NC 27105
NCDOT TIP #U-2826A
WBS Element # 34871.1.1
EI Project No. ENMO050015.00


For

Mr. Gregory A. Smith
State of North Carolina
Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, NC 27699-1589

Issue Date: October 18, 2005

Robert M. Shaut
Project Geologist/Manager

David C. Brewster, P.G.
Principal Geologist



Signature



Signature

Prepared By:

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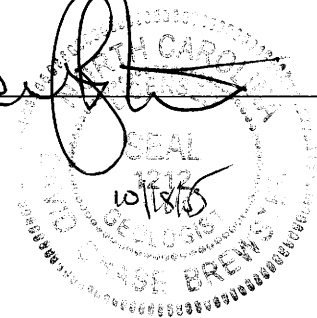


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Appendix C: Soil Boring Logs
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1.0 INTRODUCTION

Environmental Investigations, Inc. (EI) conducted a *Limited Preliminary Site Assessment* (PSA) on a parcel identified by the North Carolina Department of Transportation (NCDOT) as *Parcel 5* that includes the *proposed* and *existing right-of-way* (ROW). The subject parcel is located at 2849 North Liberty Street, Winston-Salem, North Carolina.

A business known as “Liberty Butcher Shop” is currently located on the subject parcel (adjacent to ROW). A report presented herein documents the findings of the PSA that was conducted within the prescribed area of study. For purposes of this report, the terms “subject property” and/or “site” include the *existing* NCDOT ROW and the *proposed* ROW, and/or the abutting property/parcel.

1.1 Report Organization

Mr. Darren Lockhart and Mr. Robert Michael Shaut, Environmental Geologists with EI conducted field activities on August 10, 2005. The report presented herein summarizes the scope of work conducted, discusses sampling activities, and presents findings, conclusions and our recommendations. Two (2) tables entitled “Summary of Soil Analytical Results” and “Summary of Groundwater Analytical Results” are presented in “**Table 1**” and “**Table 2**”, respectively. A “Site Location Map”, an “Aerial Photograph”, and a “Site Map” are presented in **Figures 1, 2, and 3**, respectively. A compilation of “Site Photographs” are presented in **Appendix A**, a “Geophysical Report” is presented in **Appendix B**, “Soil Boring Logs” are presented in **Appendix C**, and an “Analytical Laboratory Report” is presented in **Appendix D**, respectively.

1.2 Background

EI received a “*Request for Technical and Cost Proposal*” (RFP), dated July 7, 2005 signed by Cyrus F. Parker, LG, GeoEnvironmental Project Manager with the NCDOT GeoTechnical Engineering Unit. The RFP solicited a technical and cost proposal to perform PSAs on a total of 10 parcels located within a NCDOT Highway Project, identified as WBS Element 34871.1.1, TIP # U-2826A, located in Winston-Salem, NC. The RFP outlined site information on each of the 10 parcels and NCDOT Figures (Plan Sheets) were attached to the RFP. Mr. Gregory A. Smith, LG, PE, GeoEnvironmental Supervisor with the NCDOT, GeoTechnical Engineering Unit, GeoEnvironmental Section authorized EI to perform the PSAs, as documented in a “Notice to Proceed” dated July 28, 2005.

1.3 Objectives

The objective of performing the PSAs was to investigate parcel histories, locate potential underground storage tanks (USTs), and/or potential adverse sources of contamination and determine if these systems or sources have impacted the subsurface within the *existing* and *proposed* ROW.

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The study (PSA) conducted on the referenced parcel (Parcel #005 – Curtis Ray Hanes Property) was performed with a reasonable effort to investigate and quantify potentially petroleum-hydrocarbon residual impacted subsurface soils. Findings documented in the report do not constitute a guarantee that all potential sources of environmental contamination have been assessed and subsequently analyzed.

This report is provided for the sole use of the NCDOT on the project for which it was prepared. All materials and information used for this project were obtained or provided to EI, Inc. Use of this report by any third parties other than the NCDOT will be at such party's sole risk. EI Inc. disclaims liability for any use of or reliance on this report by third parties.

1.4 Site History

The North Carolina Department of Environmental Health and Natural Resources (NCDENR), Division of Waste Management (DWM), Underground Storage Tank Section and the Aquifer Protection Division maintain environmental records of all known and reported subsurface environmental incidents throughout the state of North Carolina. Based on research conducted by EI personnel, no known environmental incidents were filed with the aforementioned environmental agencies regarding the subject parcel with the current listed address.

2.0 SCOPE OF WORK & ENVIRONMENTAL SERVICES

2.1 Requested Scope of Work

Documented in the RFP, the NCDOT requested the following scope of work:

- Investigate site histories.
- Locate USTs and determine approximate size and contents, if any.
- Determine if contaminated soils are present.
- Investigate all proposed drainage areas on the project.
- If contamination is evident, estimate the quantity of impacted soils and indicate the approximate area of soil contamination on a site map.
- If groundwater is encountered and the project manager suspects the possibility of groundwater contamination, obtain a sample for analysis by converting one of the soil borings to a temporary monitoring well.
- Prepare a set of NCDOT plansheets (11" x 17") as a separate deliverable showing a summary of suspected impacted areas of contamination.
- Prepare a report including field activities, findings, and recommendations for each site and submit to this office in triplicate.

2.2 Scope of Services

To perform our scope-of-services, a geophysical survey was performed to identify potential UST systems, a field reconnaissance was performed to identify general site conditions, and Direct Push Technology (DPT) was utilized to collect soil samples and install a temporary groundwater well (piezometer) and collect subsequent groundwater samples on the subject property.

To complete the study on the subject parcel, EI performed the following scope of services:

- Limited oversight and supervision of a geophysical survey conducted within the area of study.

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Parcel #005 – Curtis Ray Hanes Property (Liberty Butcher Shop)
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- Supervision, direction and oversight for the advancement of five (5) soil test borings utilizing DPT methods to a total depth ranging between 20.0 and 35.0 feet below the land surface (bls) across the site in targeted locations.
- Collection and submittal of five (5) soil samples for laboratory analyses of total petroleum hydrocarbons (TPH) in the gasoline and diesel ranges.
- Supervised and directed the installation of one (1) temporary monitoring well (piezometer) on the subject site.
- Collected a groundwater sample from the piezometer for laboratory analysis of volatile organic compounds (VOCs).
- Photo documentation of pertinent site features.
- Preparation of this report in triplicate format, presenting our findings and conclusions along with our recommendations.

3.0 SITE CHARACTERIZATION

3.1 Site Location

A business known as “Liberty Butcher Shop” is currently located at 2849 North Liberty Street, Winston-Salem, (Forsyth County), North Carolina (**Figures 1 and 2**). The subject property is currently located immediately adjacent to the DOT ROW as identified in DOT’s U-2826A Plan Sheet 5. Digital site photographs are presented in **Appendix A**.

3.2 Property Ownership

According to the Forsyth County, North Carolina Tax Office Geo-Data Explorer web site and the NCDOT, the subject property is currently owned by Curtis Ray Hanes. The owners address is listed as the same property address (2849 North Liberty Street). The parcel ID was listed on the web site as #6836-56-8865. The size of the parcel was listed as 0.51 acres.

3.3 Physical Setting

The subject site parcel has been improved to operate a business. The parcel consists of parking areas partially bounded by steel mesh fencing. The surface of the parking areas is covered by gravel, while the remaining portions of the parcel consist of sparse grass. A grassy ditch is located along the western property boundary between the subject parcel and Liberty Street. See **Figure 3** for pertinent site features.

3.3.1 Number and Capacities of USTs

Based on a geophysical investigation, which is discussed in further detail in Sections 4.1 and 4.2, indications of USTs were not observed within the *existing* or *proposed* NCDOT ROW (See **Appendix B**).

3.4 Site Topography

Site observations and review of the Walkertown, NC United States Geological Survey (USGS) Topographic Quadrangle Map (1980), revealed that the subject site elevation ranges between approximately 954 feet and 955 feet above mean sea level (msl) (**Figure 1**). Topographically, the site slopes gently to the north/northeast as surface water runoff appears to flow directly north/northeast in the direction of Brushy Fork Creek located approximately 1,985 feet (662 yards) from the parcel.

3.5 Land Use & Surrounding Properties

The subject property is located inside the city limits of Winston-Salem, NC. Land use in the immediate vicinity of the site is characterized by commercial and industrial properties. The site is bounded on the north by an abandoned building located on a parcel owned by GPI Properties, LLC (Parcel #006), to the south by a business known as “Liberty Street Sports Bar” located on a parcel owned by Ansel J. Rakestraw (Parcel #004), to the east by US 52, and to the west by Liberty Street.

4.0 SUBSURFACE INVESTIAGTION

4.1 Geophysical Survey

Schnabel Engineering South, locally based in Greensboro, North Carolina, was subcontracted to provide geophysical services on the subject site. The purpose of the geophysical survey was to locate potential UST systems within the *existing* and *proposed* ROW.

The contractor conducted an electromagnetic (EM) induction survey utilizing a Geonics EM61-MK2 instrument. Ground penetrating radar (GPR) investigations of selected EM61 anomalies were conducted using a Geophysical Surveys System SIR-2000 system equipped with a 400 MHz antenna. The geophysical contractor surveyed an estimated 0.51 acres.

4.2 Geophysical Survey Results

The results indicated a number of small, isolated anomalies probably caused by relatively small, insignificant buried metal objects, several linear anomalies probably caused by buried utilities, and a number of anomalies were caused by known site features. Most of the observed anomalies not attributed to known cultural features were removed in the differential data set and re-surveyed utilizing the GPR devices. The GPR data indicated the presence of buried metal and reinforced concrete. The GPR data **did not** indicate the presence of USTs in the chosen areas surveyed.

A detailed report documenting the geophysical survey activities and results of the study is included in **Appendix B**.

4.3 Subsurface Soils Investigation

Subsurface Environmental Investigations, Inc., based in Statesville, North Carolina, was selected and subcontracted to provide Direct Push Technology (DPT) services. An EI Geologist directed and supervised the advancement of five (5) soil test borings (GP-1 through GP-5) in the vicinity of either the NCDOT identified proposed drainage (one boring), and/or the balance (four borings) of the property (for potential former UST system leaks, etc.) located within either the *existing* and/or *proposed* DOT ROW for the referenced site.

The borings were advanced in order to evaluate the absence/presence of potential subsurface soil (vadose zone) impact and/or potential subsurface groundwater (petroleum smearing) impact associated with potential former petroleum releases. The soil borings were advanced to investigative total depths ranging from 20.0 feet to 35.0 feet bls.

Based on the absence of known former USTs or present USTs, or UST systems, EI selected to investigate the subsurface for the possible presence of subsurface petroleum contaminants by conducting a series of randomly selected soil locations in a non-symmetrical pattern along areas of the proposed piping and balance of the property.

4.3.1 Soil Sample Collection Procedures

One (1) soil sample each was collected for laboratory retention from all five (5) of five (5) soil test borings.

Soil samples retained for laboratory analyses were shipped, via overnight courier service (Federal Express) to Paradigm Analytical Laboratory, for laboratory analytical testing. Dates and times of sample shipment may be referenced in the analytical Chain-of Custodies (COC) presented in **Appendix D**.

4.3.2 Backfill Activities

At the completion of the exploratory subsurface advancement activities, the test borings were backfilled to surface grade and capped with asphalt patch and/or concrete.

4.3.3 Subsurface Soil Lithology

During boring advancement activities, soil samples were classified in the field by an EI geologist utilizing the Unified Soil Classification System (USCS). Subsurface soils encountered in the area of study were fairly consistent. A surface layer of asphalt was encountered overlying a gravel sub-base underlain by reddish brown silty CLAY (CL-CH) to a layer of approximately 4.0 to 6.0 feet bls, underlain by a layer of tan, brown fine to medium silty SAND (SM), underlain by a layer of dark reddish brown CLAY (CL), which was saprolitic to the investigated depth of 20.0 feet bls. Detailed descriptions are presented in Soil Boring Logs included in **Appendix C**. The boring logs include an interpretation of subsurface conditions based on field samples.

4.4 Groundwater Investigation

4.4.1 Temporary Monitoring Well Installation

On August 23, 2005, soil test boring GP-7 was converted into a Type I (temporary) 1.0-inch diameter groundwater monitoring well (piezometer). The approximate location of the groundwater monitoring well is depicted in **Figure 3**. This boring/well was installed

along the vicinity of the property boundary between Parcel #004 and Parcel #005 to facilitate a data collection point from both properties. The well location was selected in the field by an EI Geologist (Robert Shaut) based on site conditions and field indicators noted from adjacent soil borings and/or site conditions, and/or probable potentially suspect locations (ie., topographic location). The well was advanced to the approximate investigated depth of 35.0 feet bls.

4.4.2 Groundwater Sampling Activities

EI personnel collected groundwater samples from the temporary well (GP-7) on September 2, 2005 for purposes of analytical testing. On September 6, 2005, the samples were submitted via overnight courier service to Paradigm Analytical Laboratories, for analytical laboratory testing.

4.4.3 Groundwater Laboratory Analyses

Groundwater sample identified as “TW-1” collected from boring “GP-7” was submitted for VOCs analysis by EPA Method 6230D + IPE & MTBE.

4.4.4 Monitoring Well Abandonment Activities

On September 8, 2005, a DPT subcontractor, (EnviroProbing, Inc.) abandoned the aforementioned temporary monitoring well.

5.0 LABORATORY TESTING AND RESULTS

5.1 Subsurface Soil Analytical Methods

A total of five (5) soil samples (“P5GP1-20”, “P5GP2-20”, “P5GP3-20”, “P5GP4-20”, and “P5GP5-20”) were submitted for total petroleum hydrocarbons (TPH) analyses by GC/FID 8015 analyzing for the analytes: Gasoline Range Organics (GRO), and Diesel Range Organics (DRO).

The analytes in the GRO range are utilized to extract volatile fuels such as gasoline, while the DRO range is utilized to extract less volatile petroleum products such as diesel fuel, #2 fuel oil, kerosene, and varsol.

5.2 Soil Laboratory Analyses Results

None of the five (5) soil samples detected concentrations of diesel or gasoline range organics at or above the method laboratory detection limits. The results of the analytical testing of the soil samples are tabulated and presented in **Table 1**. The complete laboratory results and COC Records are presented in **Appendix D**.

5.3 Groundwater Laboratory Analyses Results

Naphthalene (a petroleum hydrocarbon constituent) and chloroform were detected in the groundwater sample identified as “TW1” at concentrations of 0.619 ug/L, and 13.3 ug/L, respectively. None of the remaining analytes showed concentrations above the method laboratory detection limits. Specific results are tabulated in **Table 2** and the complete laboratory report along with COC records is presented in **Appendix D**.

6.0 SUMMARY OF FINDINGS

EI has reviewed information gathered for the Limited PSA study including site reconnaissance, review of DOT plan sheets, review of former site investigations, review of site investigations including soil and groundwater collection activities, review of the geophysical investigation report, and review of the laboratory analyses report. Compiled below is a summarized list of the significant findings.

- The geophysical data **did not** indicate the presence of any potential suspected USTs located within the area of study.
- Petroleum product dispensers, parts or neither portions of UST systems, nor remnants of concrete pump islands were observed on the property.
- None of subsurface soil samples, collected in the vicinity of the *proposed drainage piping* and the balance of the property showed reportable TPH concentrations in the GRO or DRO at or above the method laboratory detection limits.
- Review of the groundwater analytical data revealed that concentrations of one (1) detected analyte **exceeded** the 15A NCAC 2L .0202 (g) Groundwater Quality Standards (Class GA).

7.0 CONCLUSIONS AND RECOMMENDATIONS

EI personnel have reviewed information obtained during the study conducted at the site and present the following conclusions and recommendations.

CONCLUSIONS

Petroleum Hydrocarbon Impact

Impact within the subsurface vadose zone (unsaturated zone) was not discovered during this study. However; dissolved residual petroleum hydrocarbons have been discovered within the saturated zone beneath the parcel (adjacent to Parcel #004) at *low* levels located outside of the *existing* DOT ROW and *proposed* ROW. The extent of the dissolved contaminant plume (minor concentrations) was beyond the scope of study; however, since vadose zone impact was not established during this study, it is likely that the source of impact may be upgradient.

Based on the known history of the parcel, it is assumed that the most likely source of this impact is either from an upgradient source (“Dick Kelly Truck Sales” – release incident) or other likely sources of contamination may have been attributed to unknown former USTs, including former aboveground storage tanks (ASTs), and/or aboveground spills from vehicles.

Extent of Contamination within the Vadose Zone

No significant impact was discovered at the subject parcel.

Groundwater Impact

Since a groundwater sample obtained from the property revealed volatile dissolved concentrations above 2L Groundwater Standards, the groundwater impact could potentially be more significant in various parts of the property. A delineation of groundwater impact was beyond the scope of study for this project.

Note: This report does not constitute a guarantee that all potential sources of environmental contamination have been assessed and subsequently analyzed.

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Limited Preliminary Site Assessment
Parcel #005 – Curtis Ray Hanes Property (Liberty Butcher Shop)
2849 North Liberty Street, Winston-Salem, NC

RECOMMENDATIONS

Based on the results of this study, EI does not issue any recommendations.

TABLES

TABLE 1
Summary of Soil Analytical Results
Parcel #005 - Curtis Ray Hanes Property
("Liberty Butcher Shop")
NCDOT - Forsyth
TIP#: U-2826A
WBS #34871.1.1
EI Project No. ENMO050015.00

Sample Point Identification	P5GP1-20	P5GP2-20	P5GP3-20	P5GP4-20	P5GP5-20
Sample Depth - Feet	18-20	18-20	18-20	18-20	18-20
Sample Date	8/11/2005				
Field Screening Results-PID (ppm)	0.0	0.0	0.0	0.0	0.0
Laboratory Analysis	NCDENR (Volume II) Reportable Concentration (mg/kg) Laboratory Analytical Results (mg/kg)				
Prep Method 5035 - Gasoline Range Organics	BQL	BQL	BQL	BQL	BQL
Prep Method 3545 - Diesel Range Organics	BQL	BQL	BQL	BQL	BQL
VOCs (8260B - 5035)	Laboratory Analytical Results (UG/KG)				
All Analytes	NA	BQL	NA	NA	NA
SVOCs (8270)	Laboratory Analytical Results (UG/KG)				
All Analytes	NA	BQL	NA	NA	NA

LEGEND:
Bold & Italics Font = In Excess of NCDENR Reportable Concentrations

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Parcel # 004 And #005 - Property Line of Ansel J. Rakestraw and Curtis Ray Hanes Property
NCDOT - Forsyth County
TIP# U-2826A
WBS# 34871.1.1
EI Project # ENMO050015.00

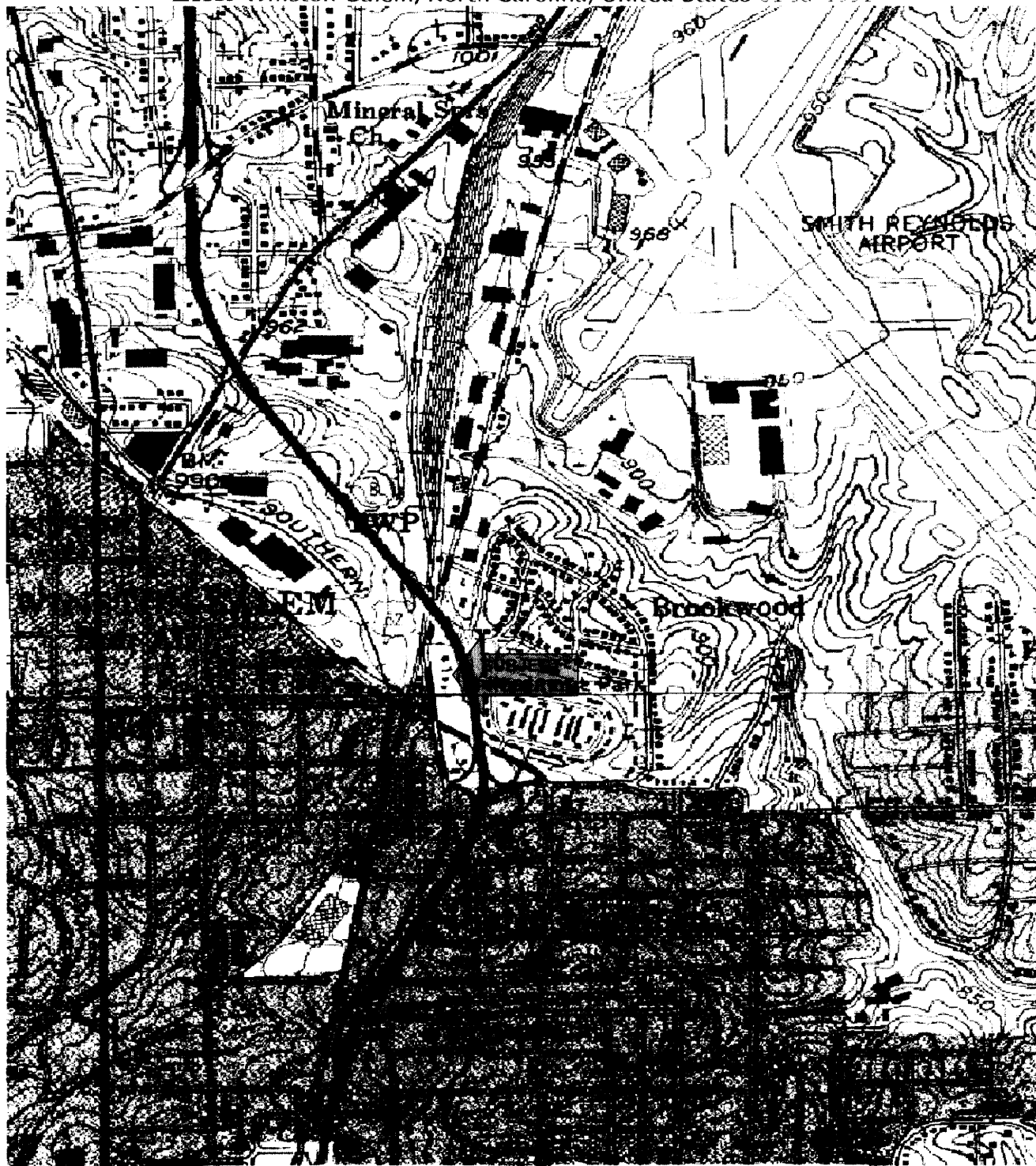
Sample Identification		TW1
Sample Date		9/2/2005
Groundwater Depth		N/A
Analyte	2L Groundwater Standards (ug/L)	LABORATORY RESULTS (ug/L)
Benzene	1	BQL
n-butylbenzene	70	BQL
sec-butylbenzene	70	BQL
Chlorobenzene	50	BQL
Chloroform	0.19	13.3
Chloromethane	2.16	BQL
1,2-Dichlorobenzene	NS	BQL
1,3-Dichlorobenzene	NS	BQL
1,4-Dichlorobenzene	NS	BQL
Diisopropyl ether (DIPE)	NS	BQL
Ethylbenzene	29	BQL
Isopropylbenzene	70	BQL
p-Isopropyltoluene	NS	BQL
naphthalene	21	0.62
n-propylbenzene	70	BQL
MTBE	200	BQL
Toluene	1000	BQL
1,2,4-trimethylbenzene	350	BQL
1,3,5-trimethylbenzene	350	BQL
xylenes	530	BQL
All Remaining Analytes	NA	BQL

Legend:

Italics / **Bold Font** = In Excess of NCAC 2L Class GA Standards
 BQL = Below Quantitation Limit
 NA = Not Applicable
 NS = No Standard

FIGURES

USGS Winston-Salem, North Carolina, United States 01 Jul 1991



0 0.5Km

0 0.25Mi



FIGURE NUMBER:	1
QUAD:	1980 Winston-Salem
PROJECT NUMBER:	ENMO050015.00
SCALE:	As Shown

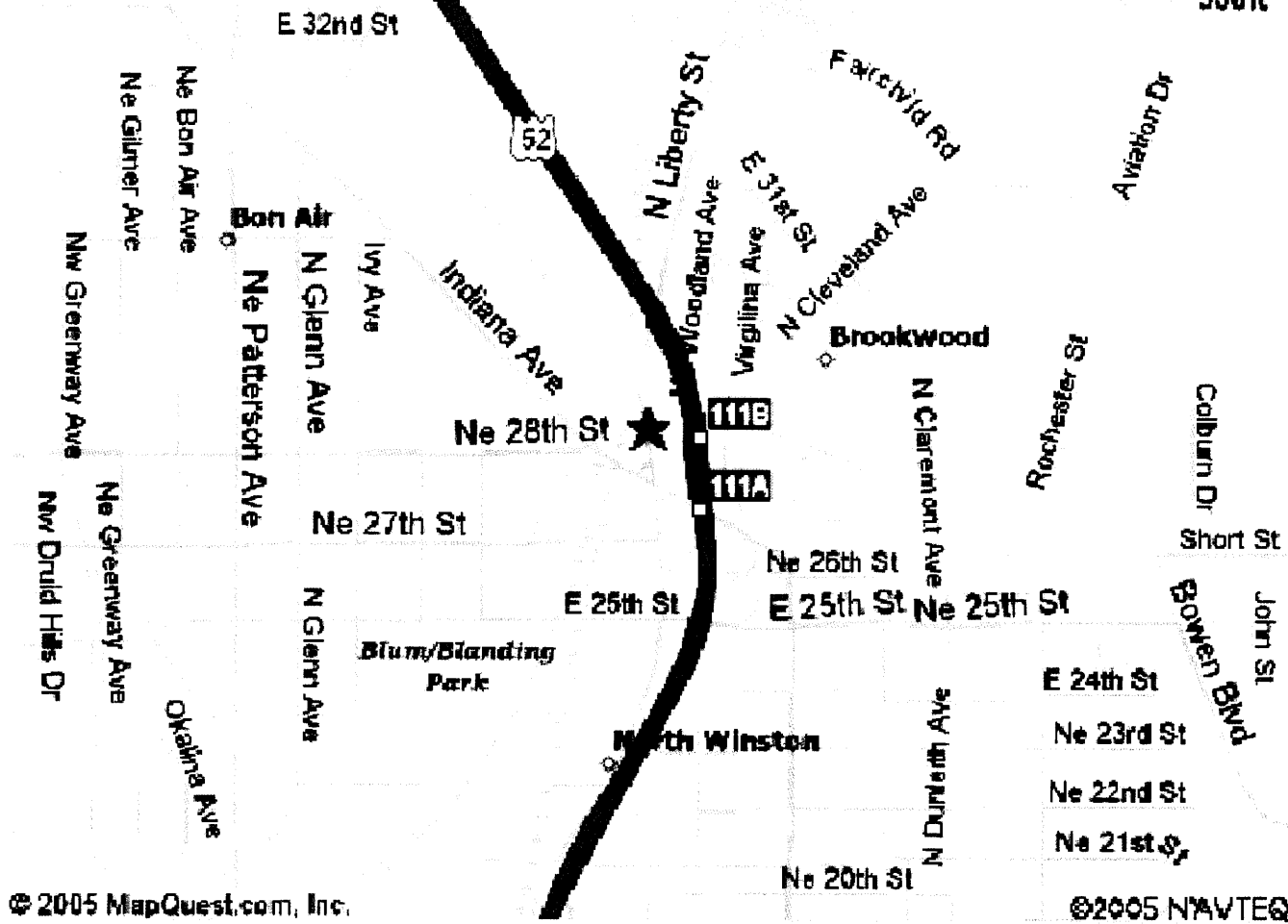
SITE LOCATION MAP
Parcel #005 – Curtis Ray Hanes
Property
2849 North Liberty Street
Winston-Salem, North Carolina



ENVIRONMENTAL INVESTIGATIONS, INC

MAPQUEST

0 300m
900ft



© 2005 MapQuest.com, Inc.

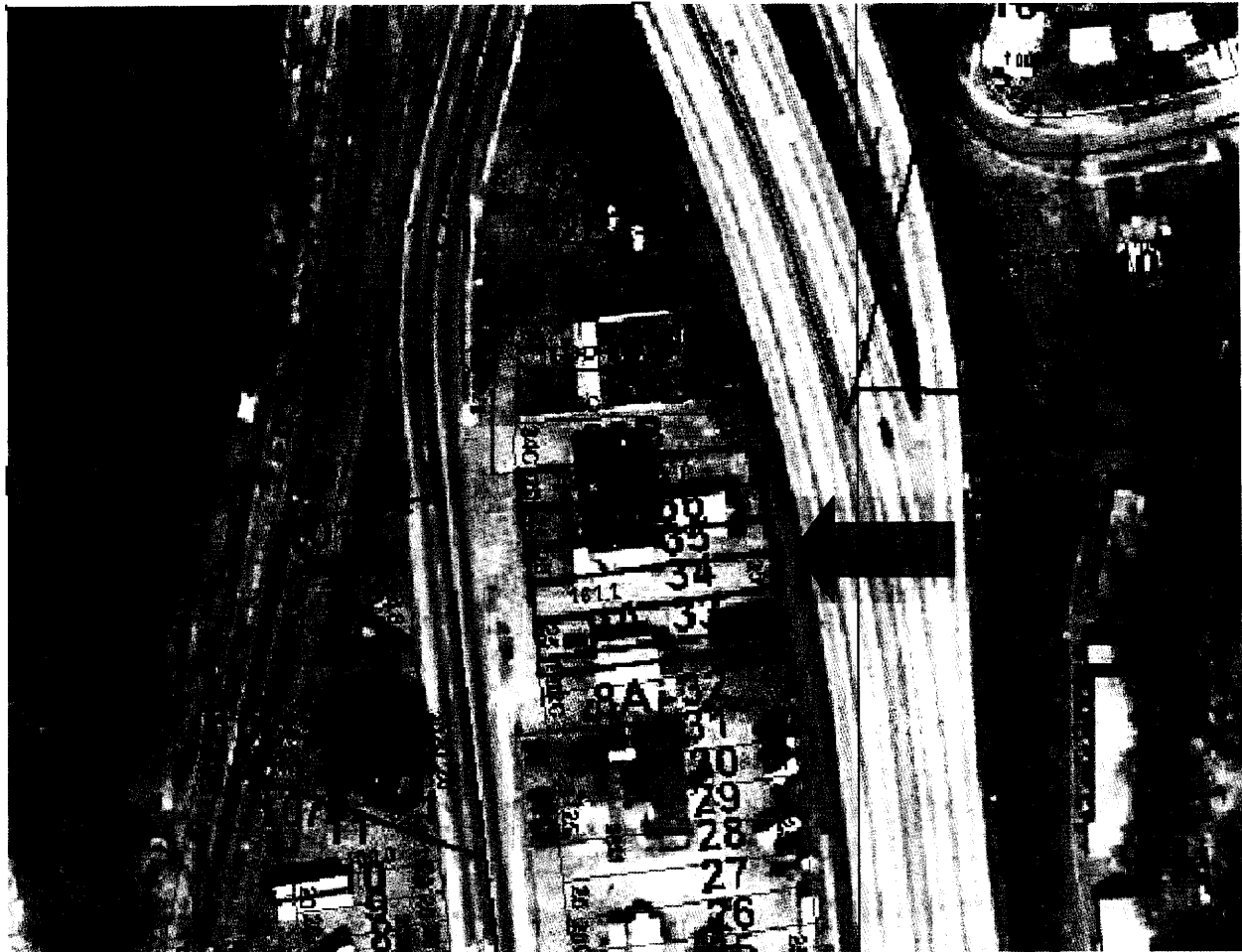
©2005 NAVTEQ



FIGURE NUMBER:	1A
QUAD:	1980 Winston-Salem
PROJECT NUMBER:	ENMO050015.00
SCALE:	As Shown

SITE LOCATION MAP
 Parcel #005 – Curtis Ray Hanes
 Property
 2849 North Liberty Street
 Winston-Salem, North Carolina

EI
 ENVIRONMENTAL INVESTIGATIONS, INC



0 Feet 150

SCALE 1 : 1805

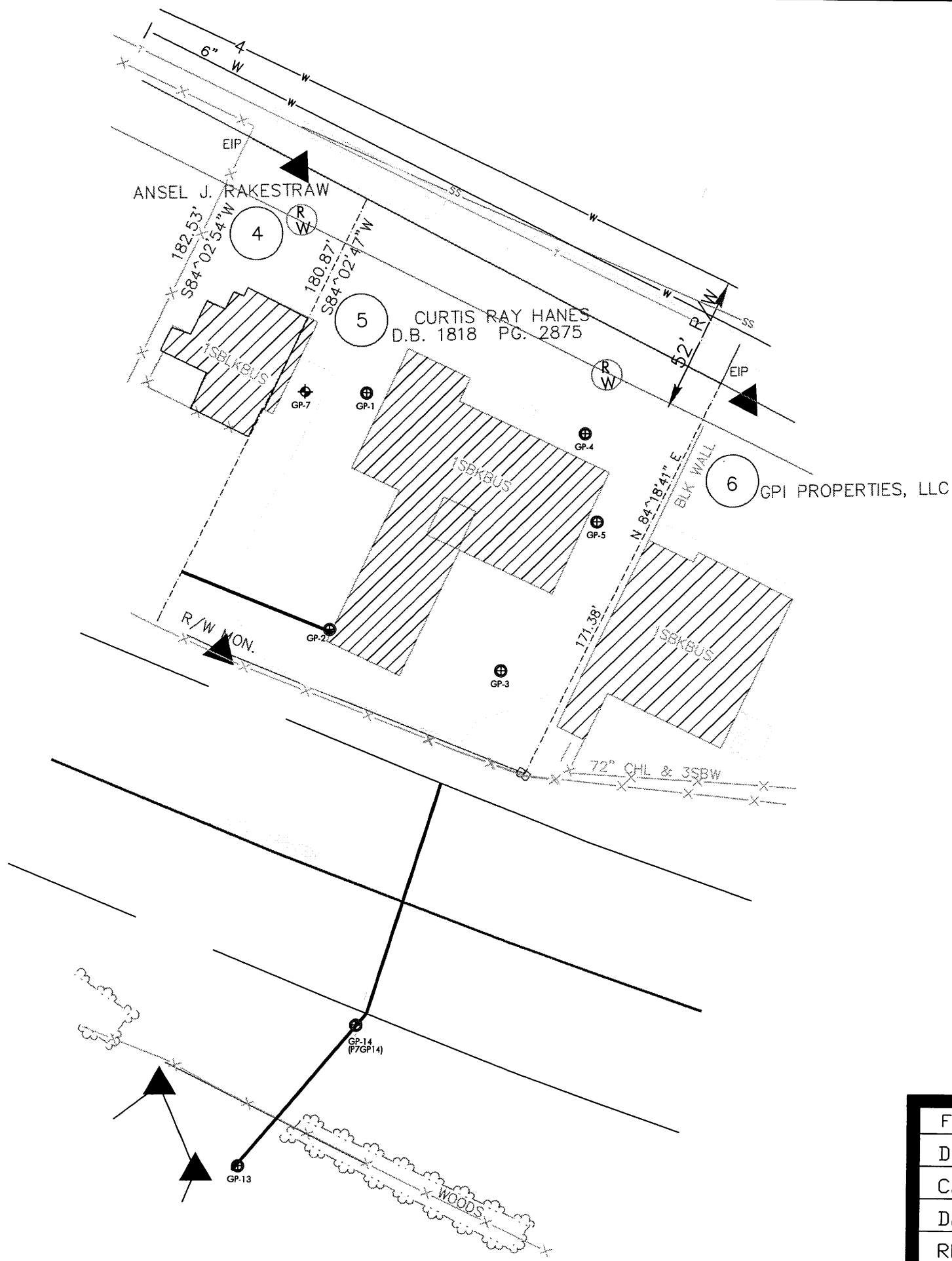
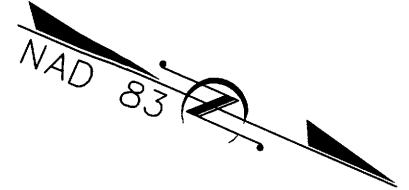


FIGURE NUMBER:	2
QUAD:	1991 Winston-Salem
PROJECT NUMBER:	ENMO050015.00
SCALE:	AS SHOWN

AERIAL PHOTOGRAPH
 Parcel #005 – Curtis Ray Hanes
 Property
 2849 North Liberty Street
 Winston-Salem, North Carolina



ENVIRONMENTAL INVESTIGATIONS, INC



- LEGEND:
- Building
 - Property Border
 - Chain Link Fence
 - Approx. Right-of-Way To Be Acquired
 - Approx. Existing Right-of-Way
 - Proposed Piping
 - DPT Soil Test Boring
 - Type I Monitoring Well

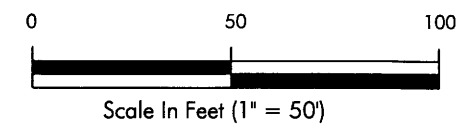


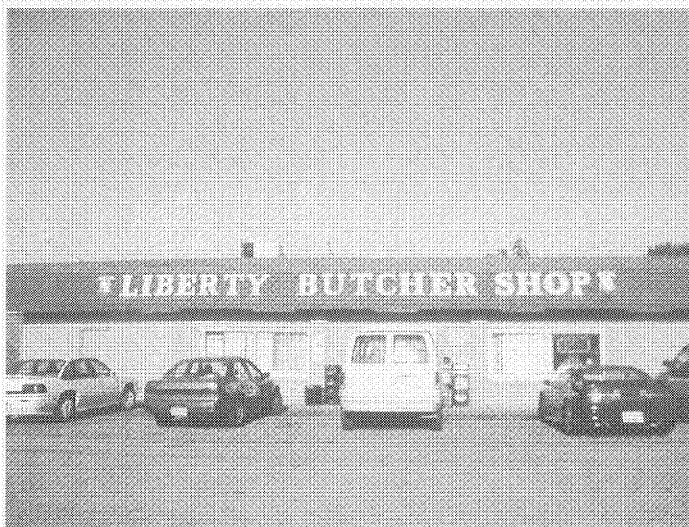
FIGURE:	3
DRN BY:	DOT/RMS
CHK BY:	DCB
DATE:	8/2005
REVISED:	N/A
SCALE:	1" = 50'

SITE MAP

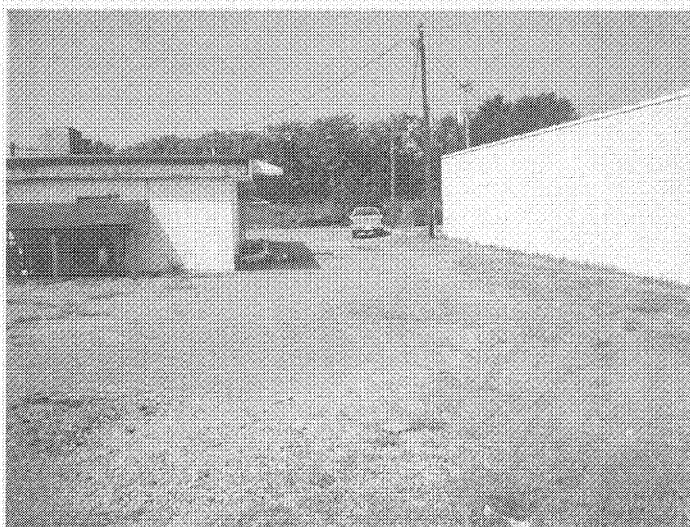
Parcel 5
Curtis Ray Hanes Property
2849 North Liberty Street
Winston-Salem, North Carolina



APPENDIX A
SITE PHOTOGRAPHS



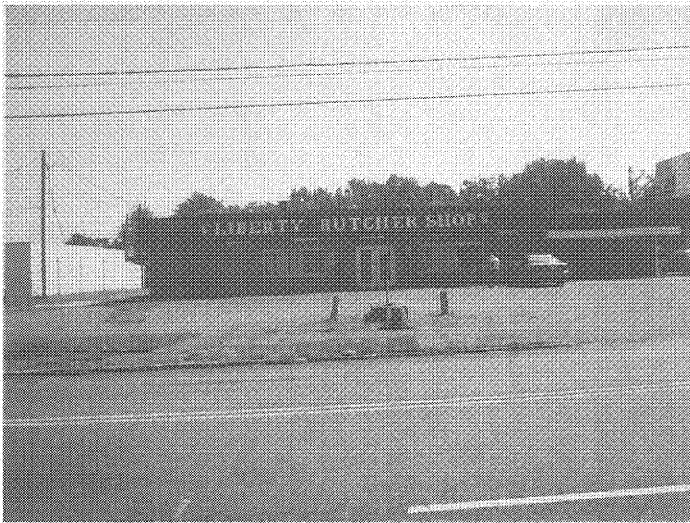
Photograph 1: View of Subject property.



Photograph 2: Rear view of "Liberty Butcher Shop" building and parcel.



Photograph 3: Rear view of subject parcel looking northwest.



Photograph 4: View from west of subject parcel.



Photograph 5: View of parcel frontage looking northwest.



Photograph 6: Closer look at subject parcel building and parking areas.

APPENDIX B
GEOPHYSICAL REPORT

September 19, 2005

Mr. Darren Lockhart
EI, Inc.
2101 Gateway Centre Boulevard, Suite 200
Morrisville, NC 27560

Via email (pdf)

RE: WBS Element 34871.1.1, TIP U-2826A, Forsyth County
Replacement of Bridges 256 and 257 on US 52
Parcels 2, 3, 4, 5, and 6

SUBJECT: Report on Geophysical Surveys for Locating Possible UST's on 5 Parcels
Schnabel Engineering Project No. 05211014.01-01

Dear Mr. Lockhart:

This letter contains our report on the geophysical surveys we conducted on the subject properties. We understand this letter report will be included as an appendix in your report to the NCDOT. The report includes 6 color figures.

1.0 INTRODUCTION

The work described in this report was conducted by Schnabel Engineering under our contract with the NCDOT. The work was conducted at the locations indicated by EI to support their environmental assessment of the subject parcels. The purpose of the geophysical surveys was to locate possible metal underground storage tanks (UST's) and associated product lines in the accessible areas of the sites.

Schnabel Engineering conducted geophysical surveys on August 10-13, 17, 19, 20, and 26, 2005, in the accessible areas of Parcels 2 and 3 (Dick Kelly), Parcel 4 (Sports Bar), Parcel 5 (Butcher Shop) and Parcel 6 (Vacant). Photographs of these parcels are included on Figure 1.

The geophysical investigation consisted of electromagnetic (EM) induction surveys using a Geonics EM61-MK2 instrument. The EM61 metal detector is used to locate metal objects buried up to about eight feet below ground surface. Ground-penetrating radar (GPR) investigations of selected EM61 anomalies were conducted using a Geophysical Survey Systems SIR-2000 system equipped with a 400 MHz antenna.

2.0 FIELD METHODOLOGY

2.1 Location Control

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system on Parcels 4, 5, and 6. An X-Y survey grid was set up on Parcels 2 and 3. References to direction and location in this report for Parcels 2 and 3 are based on this local site grid. References to direction and location in this report for Parcels 4, 5, and 6 are based on the US State Plane System, North Carolina Zone 3200, using the NAD 83 datum, with units in feet. The locations of existing site features (building, curbs, signs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings.

2.2 Data Collection

The EM61 data were collected along parallel survey lines spaced approximately 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected along survey lines spaced one to two feet apart in orthogonal directions over areas of reinforced concrete and over anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the

possible presence of UST's. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

Preliminary results were mailed overnight to EI on August 30, 2005.

3.0 DISCUSSION OF RESULTS

The contoured EM61 data are shown on Figures 2 through 6. The EM61 early time gate results are plotted on Figures 2 and 4. The early time gate data provide the most sensitive detection of metal object targets, regardless of size. Figures 3 and 5 show the difference between the response of the top and bottom coils of the EM61 instrument (differential response). The difference is taken to remove the effect of surface and very shallowly buried metallic objects. Typically, the differential response emphasizes anomalies from deeper and larger objects such as UST's. The EM61 early time gate and differential results are also shown at a scale of 1 inch = 100 feet on Figure 65.

3.1 Parcels 2 and 3

Parcels 2 and 3 are located at the northeast corner of the intersection of North Liberty Street and Indiana Avenue in Winston-Salem, NC. The combined site contains Dick Kelly's Trucks business. The EM61 results for Parcels 2 and 3 are shown on Figure 2 (early time gate) and Figure 3 (differential). The areas occupied by buildings, trailers, or other obstructions could not be surveyed. The early time gate results indicate several linear anomalies probably caused by buried utilities, anomalies caused by known above-ground metal features, and several smaller anomalies probably caused by relatively small, insignificant buried metal objects (Figure 2). Most of the observed anomalies not attributed to known cultural features are removed in the differential data set (Figure 3). GPR surveys were conducted in six areas to investigate significant EM61 differential anomalies not attributed to known cultural features. The GPR data indicated the presence of several buried utilities, reinforced concrete, and buried metal. The GPR data did not indicate the presence of UST's in the areas surveyed.

3.2 Parcels 4, 5, and 6

Parcels 4, 5, and 6 are located immediately north of Parcels 2 and 3, along North Liberty Street in Winston-Salem, NC. Parcel 4 is currently occupied by a sports bar, Parcel 5 is currently occupied by a butcher shop, and Parcel 6 contains a vacant building. The EM61 results for Parcels 4, 5, and 6 are shown on Figure 4 (early time gate) and Figure 5 (differential). The areas occupied by buildings could not be surveyed. The early time gate results show a number of small, isolated anomalies probably caused by relatively small, insignificant buried metal objects, several linear anomalies apparently caused by buried utilities, and a number of anomalies caused by known site features (Figure 4). Most of the observed anomalies not attributed to known cultural features are removed in the differential data set (Figure 5). GPR surveys were conducted in five areas to investigate significant EM61 differential anomalies not attributed to known cultural features. The GPR data indicated the presence of buried metal and reinforced concrete. The GPR data did not indicate the presence of UST's in the areas surveyed. Two possible vent pipes were observed behind the building on Parcel 6; however, the GPR data did not indicate the presence of UST's at these locations.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcels 2 through 6 on Project U-2826A in Winston-Salem, NC indicate the following:

- The geophysical data indicate the presence of several buried utilities, buried metal objects, and reinforced concrete in the areas surveyed.

- The geophysical data do not indicate the presence UST's in the areas surveyed.

5.0 LIMITATIONS

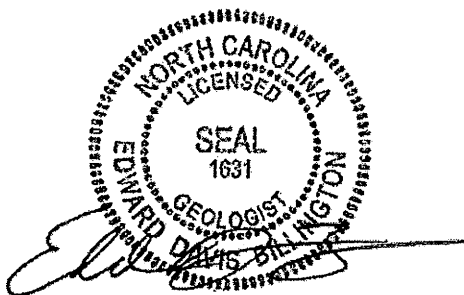
These services have been performed and this report prepared for the North Carolina Department of Transportation and EI in accordance with generally accepted guidelines for conducting geophysical surveys. It is generally recognized that the results of geophysical surveys are non-unique and may not represent actual subsurface conditions.

Thank you for the opportunity to serve you on this project. Please call if you need additional information or have any questions.

Sincerely,



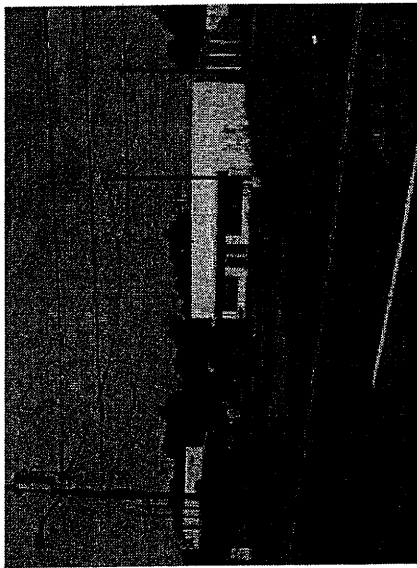
Edward (Ned) D. Billington, P.G.
Project Manager



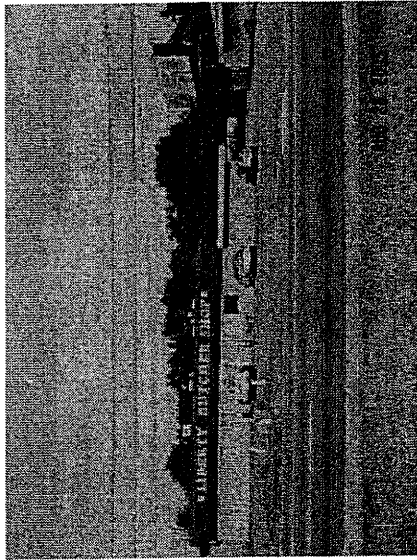
JS/NB

Attachment: Figures (6)

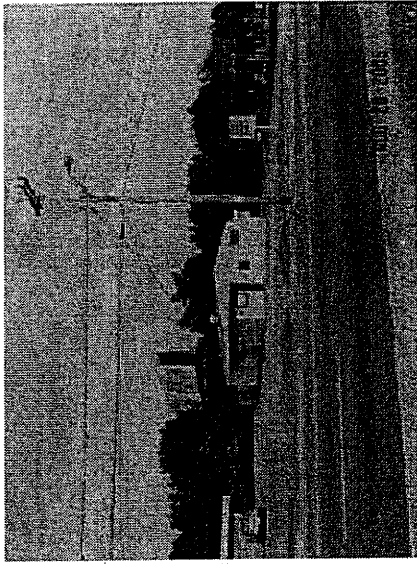
FILE: G:\PROJECTS\03211019 (NCDOT GEOPHYSICS 2003)\CORRESPONDENCE\CROUCH H&H LTR 2A - REPORT ON TASK 16 (I-2304AA, ROWAN) WITH FIGS.DOC



Parcel 6 - Vacant, looking northeast



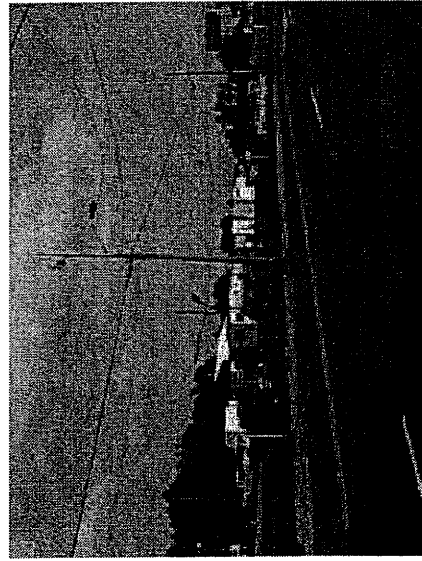
Parcel 5 - Liberty Butcher Shop, looking east



Parcel 4 - Liberty Street Sports Bar, looking southeast



Parcel 4 - Dick Kelly's Trucks, looking southeast



Parcel 4 - parking for Dick Kelly's Trucks, looking southeast

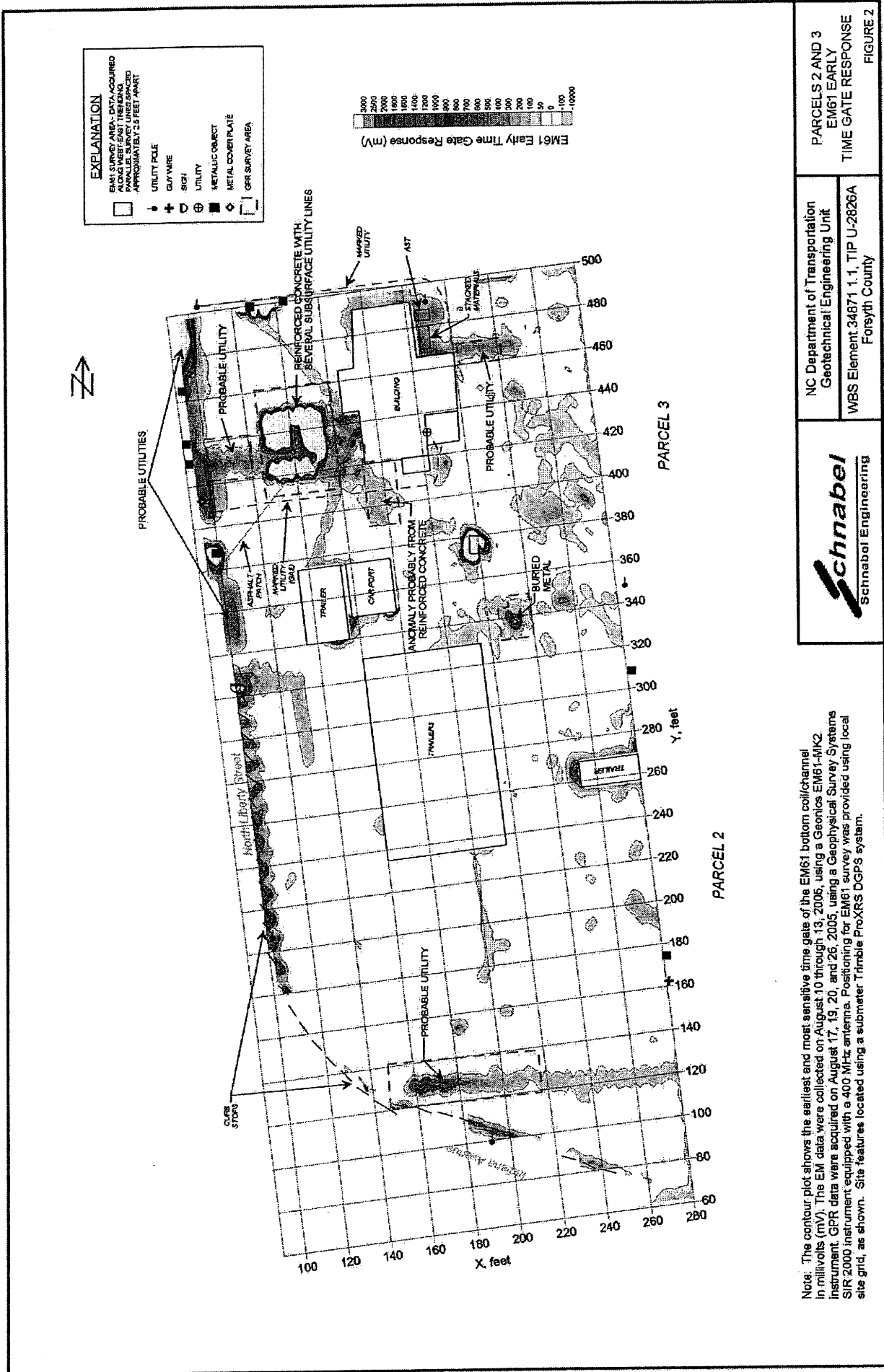


NC Department of Transportation
Geotechnical Engineering Unit

WBS Element 34871.1.1, TIP U-2826A
Forsyth County

SITE PHOTOS

FIGURE 1



NC Department of Transportation
Geotechnical Engineering Unit
WBS Element 34871 1.1, TIP U-2826A
Forsyth County



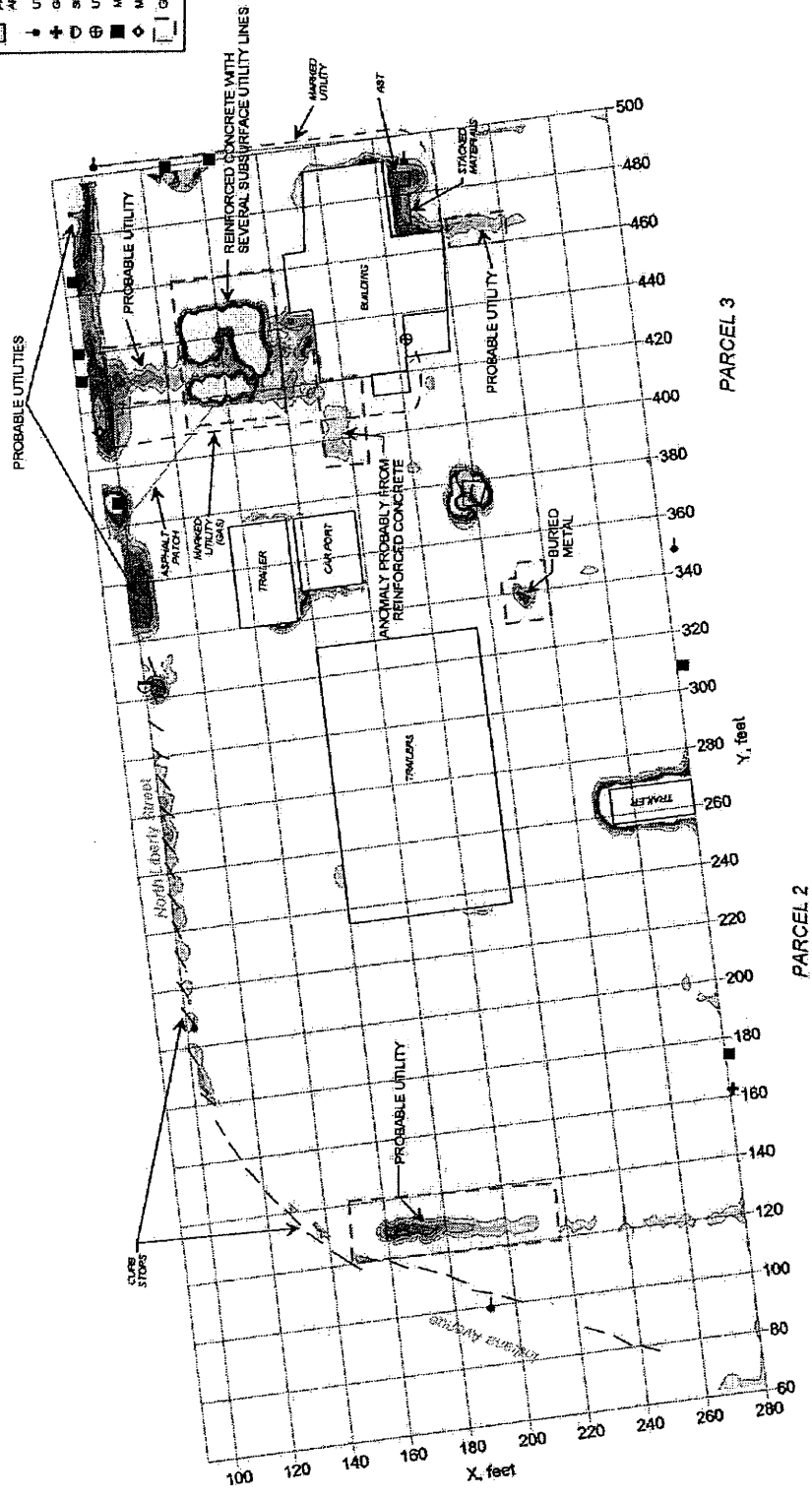
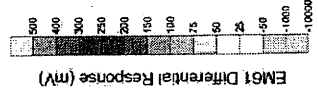
Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on August 10 through 13, 2005, using a Geonics EM61-MK2 instrument. GPR data were acquired on August 17, 19, 20, and 25, 2005, using a Geophysical Survey Systems SIR 2000 instrument equipped with a 400 MHz antenna. Positioning for EM61 survey was provided using local site grid, as shown. Site features located using a submeter Trimble ProXRSS DGPS system.

PARCELS 2 AND 3
EM61 EARLY
TIME GATE RESPONSE
FIGURE 2

EXPLANATION

BULK SURVEY AREA DATA ACQUIRED ALONG WEST-EAST TRENDS ONLY. PARALLEL SURVEY LINES SPACED APPROXIMATELY 25 FEET APART

UTILITY FCLE
 GUY WIRE
 SIGN
 UTILITY
 METALLIC OBJECT
 METAL COVER PLATE
 GPR SURVEY AREA



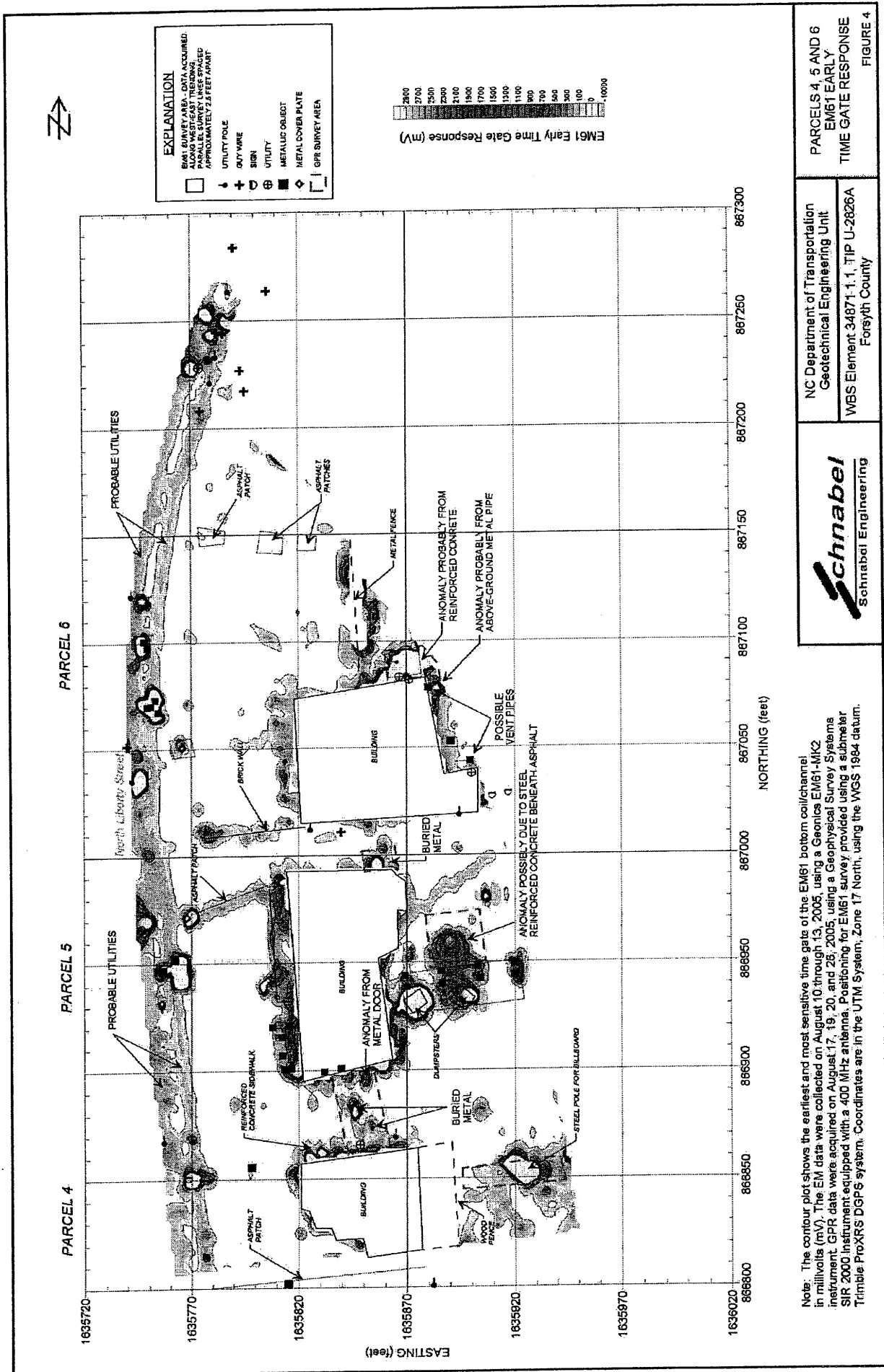
Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as pipes and tanks. The EM data were collected on August 10-13, 2005, using a Geonics EM61-MK2 instrument. GPR data were acquired on August 17, 19, 20, and 26, 2005, using a Geophysical Survey Systems S1R 2000 equipped with a 400 MHz antenna. Positioning for the EM61 survey was provided using local site grid, as shown. Site features located using a submeter Trimble ProXR DGPS system.



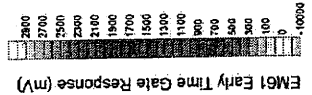
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PARCELS 2 AND 3
 EM61 DIFFERENTIAL
 RESPONSE

FIGURE 3



EXPLANATION
 EARL SURVEY AREA - DATA ACQUIRED ALONG WEST-EAST TRENDS AND APPROXIMATELY 2.5 FEET APART
 UTILITY POLE
 GUY WIRE
 SIGN
 UTILITY
 METALLIC OBJECT
 METAL COVER PLATE
 GPR SURVEY AREA



1635720 1635770 1635820 1635870 1635920 1635970
 EASTING (feet)

866800 866850 866900 866950 867000 867050 867100 867150 867200 867250 867300
 NORTHING (feet)

PARCEL 4 PARCEL 5 PARCEL 6

North Liberty Street

PROBABLE UTILITIES

ASPHALT PATCH

REINFORCED CONCRETE SPRAWL

BUILDING

ANOMALY FROM METAL DOOR

BURIED METAL

DAMPSTERS

WOOD FENCE

STEEL POLE FOR BILLBOARD

ASPHALT PATCH

BROCK WALL

BUILDING

BURIED METAL

ANOMALY POSSIBLY DUE TO STEEL REINFORCED CONCRETE BENEATH ASPHALT

METAL FENCE

ANOMALY PROBABLY FROM REINFORCED CONCRETE

ANOMALY PROBABLY FROM ABOVE-GROUND METAL PIPE

POSSIBLE VENT PIPES

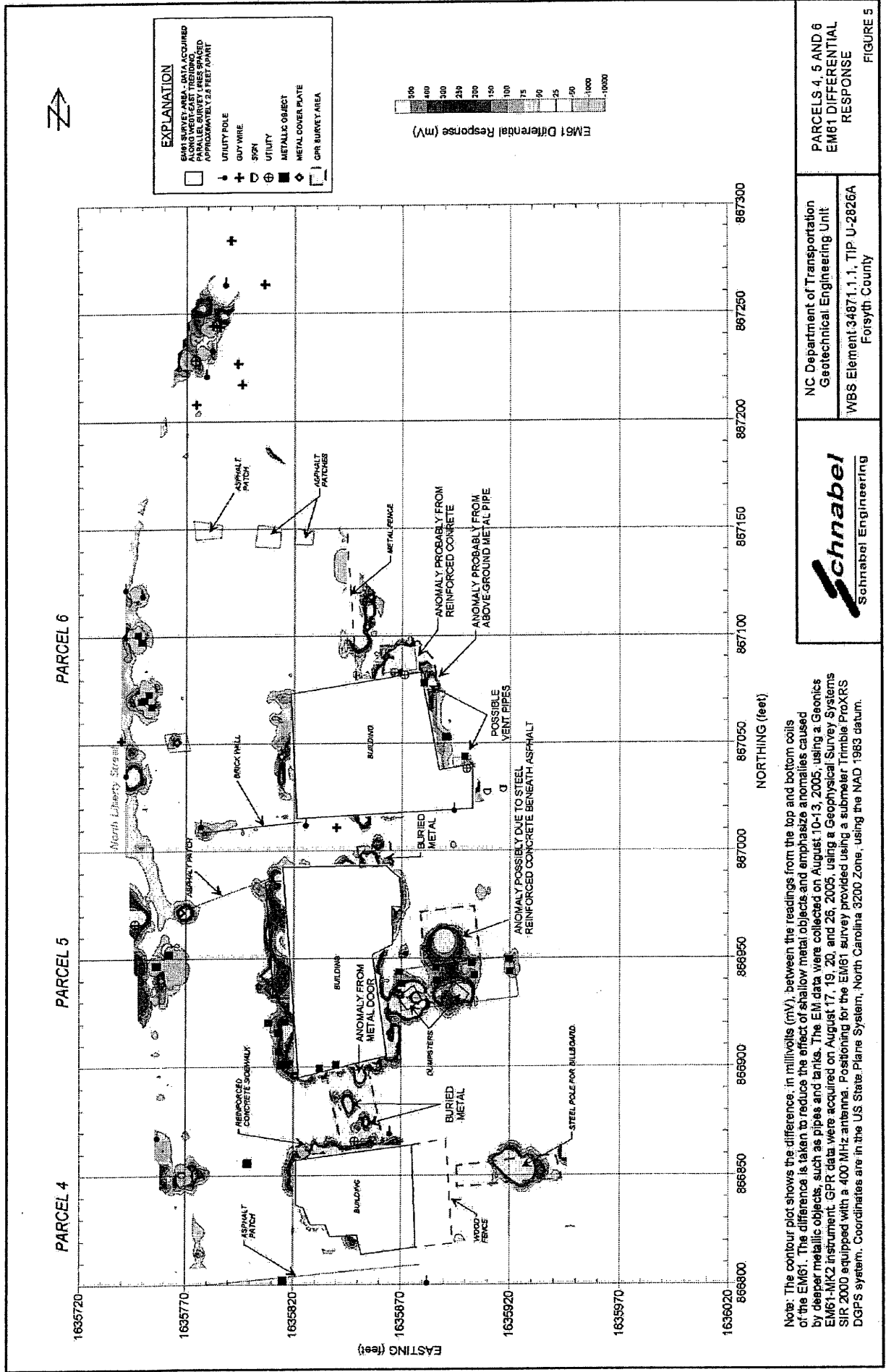
ASPHALT PATCHES

Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on August 10 through 13, 2005, using a Geonics EM61-MK2 instrument. GPR data were acquired on August 17, 19, 20, and 26, 2005, using a Geophysical Survey Systems SIR 2000 instrument equipped with a 400 MHz antenna. Positioning for EM61 survey provided using a submeter Trimble ProXR5 DGPS system. Coordinates are in the UTM System, Zone 17 North, using the WGS 1984 datum.



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 Forsyth County

PARCELS 4, 5 AND 6
 EM61 EARLY
 TIME GATE RESPONSE
 FIGURE 4

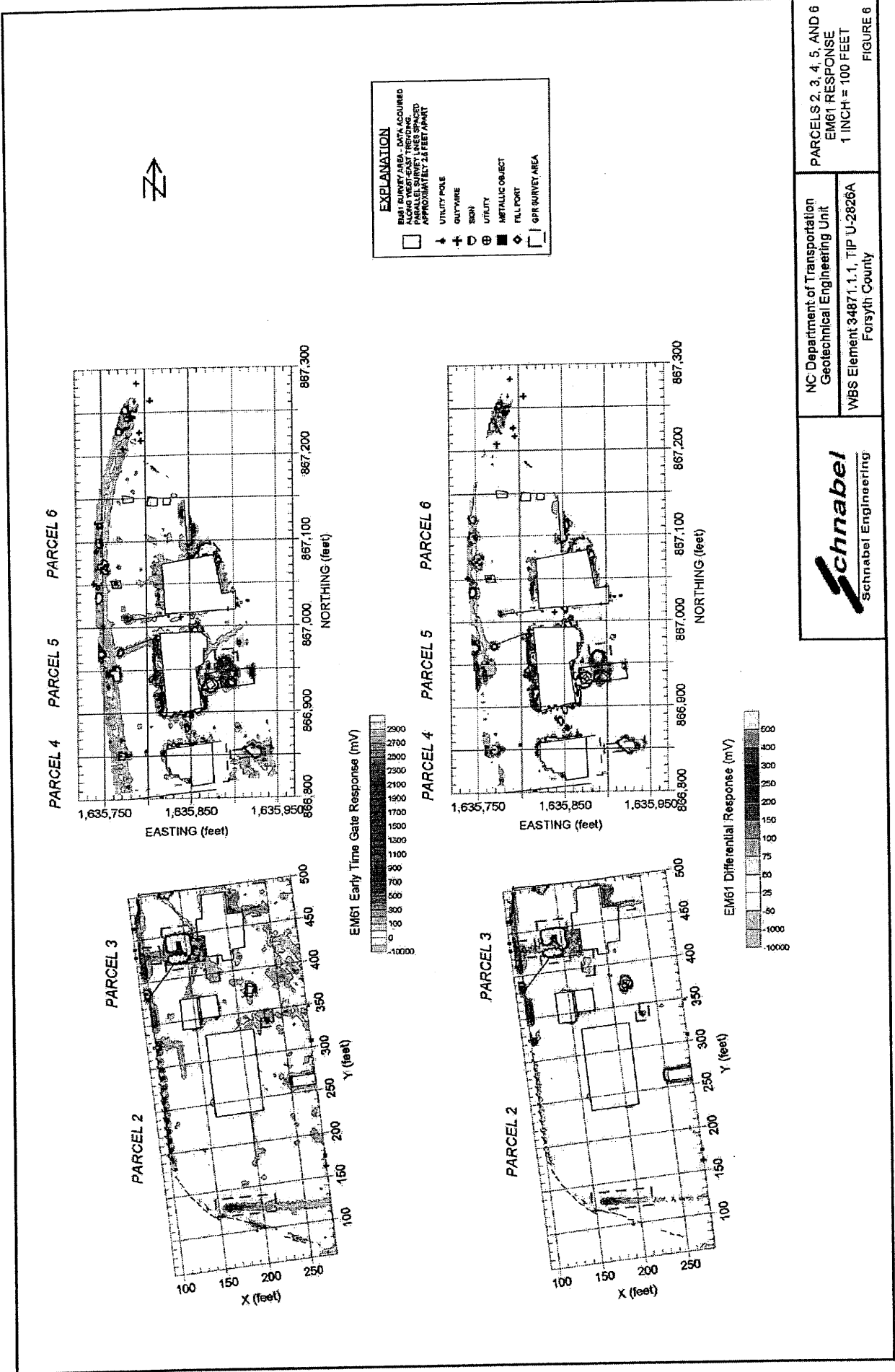


Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as pipes and tanks. The EM data were collected on August 10-13, 2005, using a Geonics EM61-MK2 instrument. GPR data were acquired on August 17, 19, 20, and 26, 2005, using a Geophysical Survey Systems SIR 2000 equipped with a 400 MHz antenna. Positioning for the EM61 survey provided using a submeter Trimble ProXR5 DGPS system. Coordinates are in the US State Plane System, North Carolina 3200 Zone, using the NAD 1983 datum.



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PARCELS 4, 5 AND 6
 EM61 DIFFERENTIAL
 RESPONSE
 FIGURE 5



EXPLANATION

EM61 SURVEY AREA - DATA ACQUIRED
 MAGNETIC SURVEY LINES SPACED
 APPROXIMATELY 2.5 FEET APART

□ SURVEY AREA
 ↓ UTILITY POLE
 + GUTTER WIRE
 ⊕ SS&N
 ⊕ UTILITY
 ⊕ METALLIC OBJECT
 ⊕ FULL PORT
 ⊕ GPR SURVEY AREA

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 Forsyth County



PARCELS 2, 3, 4, 5, AND 6
 EM61 RESPONSE
 1 INCH = 100 FEET
 FIGURE 6

APPENDIX C
SOIL BORING LOGS



SEI

ENVIRONMENTAL INVESTIGATIONS, INC.

2101 Gateway Centre Boulevard, Suite 200
Morrisville, North Carolina
919-544-7500

SOIL BORING LOG

Boring No. GP-1
Date Drilled: 08/11/05

Client: NCDOT
Project Name: Parcel #005 - Curtis Ray Hanes Property
Project/Site Location: 2849 North Liberty Street, Winston-Salem, NC
Project Number: ENMO050015.00

Logged By: RMS
Drilling Company: SEI
Drill Device: GeoProbe® 5400
Drill Method: DPT

Total Boring Depth: 20.0'
Boring Diameter: 4.0"

Weather Conditions: Very Hot
Boring Location: South of building central portion

Surface Elevation: _____

Depth (Feet)	Depth (Meters)	Time	Sample Analyzed	Recovery	Soil Profile	Lithological Description	Sample PID (ppm)
2.00	0.61			100%	(ML)	Reddish brown, sand SILT (ML), dry.	0.0
4.00	1.22						
6.00	1.83			100%		Tan, orange Sand (SM), with trace silt and clay, micaceous, dry.	0.0
8.00	2.44						
10.00	3.05			100%	(SM)		0.0
12.00	3.66						
14.00	4.27			100%			0.0
16.00	4.88						
18.00	5.49			100%			0.0
20.00	6.10		x				
						Boring terminated at 20.0' bls. X denotes interval collected for laboratory testing.	



E.I.

ENVIRONMENTAL INVESTIGATIONS, INC.

2101 Gateway Centre Boulevard, Suite 200
Morrisville, North Carolina
919-544-7500

SOIL BORING LOG

Boring No. GP-2
Date Drilled: 08/11/05

Client:	<u>NCDOT</u>	Logged By:	<u>RMS</u>
Project Name:	<u>Parcel #005 - Curtis Ray Hanes Property</u>	Drilling Company:	<u>SEI</u>
Project/Site Location:	<u>2849 North Liberty Street, Winston-Salem, NC</u>	Drill Device:	<u>GeoProbe® 5400</u>
Project Number:	<u>ENMO050015.00</u>	Drill Method:	<u>DPT</u>

Total Boring Depth: 20.0' Weather Conditions: Very Hot Surface Elevation: _____
 Boring Diameter: 4.0" Boring Location: Piping adjacent to southeastern building corner

Depth (Feet) (Meters)	Time	Sample Analyzed	Recovery	Soil Profile	Lithological Description	Sample PID (ppm)
2.00 0.61			100%	(SM)	Tan, orange Sand (SM), with trace silt and clay, micaceous, dry.	0.0
4.00 1.22						
6.00 1.83			100%		Tan, orange to brown sandy SILT (ML), micaceous, dry.	0.0
8.00 2.44						
10.00 3.05			100%	(ML)		0.0
12.00 3.66						
14.00 4.27			100%			0.0
16.00 4.88						
18.00 5.49		x	100%			0.0
20.00 6.10						
					Boring terminated at 20.0' bls. X denotes interval collected for laboratory testing.	



SEI

ENVIRONMENTAL INVESTIGATIONS, INC.

2101 Gateway Centre Boulevard, Suite 200
Morrisville, North Carolina
919-544-7500

SOIL BORING LOG

Boring No. GP-3
Date Drilled: 08/11/05

Client:	<u>NCDOT</u>	Logged By:	<u>RMS</u>
Project Name:	<u>Parcel #005 - Curtis Ray Hanes Property</u>	Drilling Company:	<u>SEI</u>
Project/Site Location:	<u>2849 North Liberty Street, Winston-Salem, NC</u>	Drill Device:	<u>GeoProbe® 5400</u>
Project Number:	<u>ENMO050015.00</u>	Drill Method:	<u>DPT</u>

Total Boring Depth: 20.0' Weather Conditions: Very Hot Surface Elevation: _____
 Boring Diameter: 4.0" Boring Location: Northeast of building

Depth (Feet) (Meters)		Time	Sample Analyzed	Recovery	Soil Profile	Lithological Description	Sample PID (ppm)
2.00	0.61			100%		Dark reddish brown CLAY (CL), dry.	0.0
4.00	1.22						
6.00	1.83			100%		Tanish brown fine to med SAND (SM) with little silt, dry.	0.0
8.00	2.44				(SM)		
10.00	3.05			100%			0.0
12.00	3.66						
14.00	4.27			100%		Dark reddish brown CLAY (CL), dry (saprolitic).	0.0
16.00	4.88						
18.00	5.49		x	100%			0.0
20.00	6.10					Boring terminated at 20.0' bls. X denotes interval collected for laboratory testing.	



E.I.

ENVIRONMENTAL INVESTIGATIONS, INC.

2101 Gateway Centre Boulevard, Suite 200
Morrisville, North Carolina
919-544-7500

SOIL BORING LOG

Boring No. GP-4
Date Drilled: 08/11/05

Client:	<u>NCDOT</u>	Logged By:	<u>RMS</u>
Project Name:	<u>Parcel #005 - Curtis Ray Hanes Property</u>	Drilling Company:	<u>SEI</u>
Project/Site Location:	<u>2849 North Liberty Street, Winston-Salem, NC</u>	Drill Device:	<u>GeoProbe® 5400</u>
Project Number:	<u>ENMO050015.00</u>	Drill Method:	<u>DPT</u>

Total Boring Depth:	<u>20.0'</u>	Weather Conditions:	<u>Very Hot</u>	Surface Elevation:	<u> </u>
Boring Diameter:	<u>4.0"</u>	Boring Location:	<u>Northeast of building</u>		

Depth (Feet) (Meters)	Time	Sample Analyzed	Recovery	Soil Profile	Lithological Description	Sample PID (ppm)
2.00 0.61			100%		Dark reddish brown CLAY (CL), dry.	0.0
4.00 1.22						
6.00 1.83			100%		Tanish brown fine to med SAND (SM) with little silt, dry.	0.0
8.00 2.44						
10.00 3.05				(SM)		
12.00 3.66			100%			0.0
14.00 4.27						
16.00 4.88					Dark reddish brown CLAY (CL), dry (saprolitic).	
18.00 5.49		x	100%			0.0
20.00 6.10						
					Boring terminated at 20.0' bls. X denotes interval collected for laboratory testing.	



E.I.

ENVIRONMENTAL INVESTIGATIONS, INC.

2101 Gateway Centre Boulevard, Suite 200
 Morrisville, North Carolina
 919-544-7500

SOIL BORING LOG

Boring No. GP-5
 Date Drilled: 08/11/05

Client:	<u>NCDOT</u>	Logged By:	<u>RMS</u>
Project Name:	<u>Parcel #005 - Curtis Ray Hanes Property</u>	Drilling Company:	<u>SEI</u>
Project/Site Location:	<u>2849 North Liberty Street, Winston-Salem, NC</u>	Drill Device:	<u>GeoProbe® 5400</u>
Project Number:	<u>ENMO050015.00</u>	Drill Method:	<u>DPT</u>

Total Boring Depth: 20.0' Weather Conditions: Very Hot Surface Elevation: _____
 Boring Diameter: 4.0" Boring Location: Northeast of building

Depth (Feet) (Meters)	Time	Sample Analyzed	Recovery	Soil Profile	Lithological Description	Sample PID (ppm)
2.00 0.61			100%		Dark reddish brown CLAY (CL), dry.	0.0
4.00 1.22						
6.00 1.83			100%		Tanish brown fine to med SAND (SM) with little silt, dry.	0.0
8.00 2.44						
10.00 3.05				(SM)		
12.00 3.66			100%			0.0
14.00 4.27						
16.00 4.88					Dark reddish brown CLAY (CL), dry (saprolitic).	
18.00 5.49		x	100%			0.0
20.00 6.10						
					Boring terminated at 20.0' bls. X denotes interval collected for laboratory testing.	



EI

ENVIRONMENTAL INVESTIGATIONS, INC.

2101 Gateway Centre Boulevard, Suite 200
Morrisville, North Carolina
919-544-7500

SOIL BORING LOG

Boring No. GP-7
Date Drilled: 08/11/05

Client:	<u>NCDOT</u>	Logged By:	<u>RMS</u>
Project Name:	<u>Parcel #004 & #005</u>	Drilling Company:	<u>SEI</u>
Project/Site Location:	<u>2847 & 2849 North Liberty Street, Winston-Salem, NC</u>	Drill Device:	<u>GeoProbe® 5400</u>
Project Number:	<u>ENMO050015.00</u>	Drill Method:	<u>DPT</u>

Total Boring Depth: 35.0' Weather Conditions: Very Hot Surface Elevation: _____
 Boring Diameter: 4.0" Boring Location: Southeast of former UST pit

Depth (Feet) (Meters)		Time	Sample Analyzed	Recovery	Soil Profile	Lithological Description	Sample PID (ppm)
10.00	3.05			100%		Reddish brown, silty CLAY (CL), dry.	0.0
				100%		Gold, tan fine to medium SILT (ML), with trace or some fine sand, dry, micaceous.	0.0
				100%	(ML)		
			x	100%			
20.00	6.10			100%			0.0
				100%			
30.00	9.15			100%		(SAPROLITE) described as gold, tan, light brown sandy silty	0.0
				100%	(SAP)		
Boring terminated at 35.0' b/s, Probe Refusal. x denotes interval collected for laboratory testing. Boring converted into a temporary well (1" piezometer).							

APPENDIX D
LABORATORY ANALYICAL REPORT

PARADIGM ANALYTICAL LABORATORIES, INC.

5500 Business Drive
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

Mr. Darren Lockhart
Environmental Investigations
2101 Gateway Centre Boulevard
Suite 200
Morrisville NC 27560
Report Number: G106-536

Client Project: Parcel 5 Tip#U-2826A

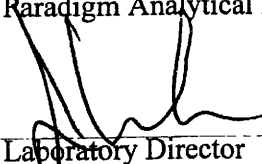
Dear Mr. Lockhart:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.



Laboratory Director
J. Patrick Weaver

8/24/05

Date

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: P5GP1-20
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID: G106-536-1
Lab Project ID: G106-536
Report Basis: Dry Weight

Analyzed By: DCS
Date Collected: 8/10/05 13:30
Date Received: 8/13/05
Matrix: Soil
Solids 83.05

Analyte	Result MG/KG	Report Limit MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	8.42	5035	1	08/17/05
Diesel Range Organics	BQL	7.39	3545	1	08/23/05

Comments:

Reviewed By:
TPH_LIMS_v1.82.XLS

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: P5GP2-20
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID: G106-536-2
Lab Project ID: G106-536
Report Basis: Dry Weight

Analyzed By: DCS
Date Collected: 8/10/05 13:45
Date Received: 8/13/05
Matrix: Soil
Solids 71.37

Analyte	Result MG/KG	Report Limit MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	8.31	5035	1	08/17/05
Diesel Range Organics	BQL	8.41	3545	1	08/23/05

Comments:

Reviewed By: RSJ
TPH_LIMS_v1 82.XLS
3 of 12

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: P5GP3-20
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID: G106-536-3
Lab Project ID: G106-536
Report Basis: Dry Weight

Analyzed By: DCS
Date Collected: 8/10/05 14:15
Date Received: 8/13/05
Matrix: Soil
Solids 84.07

Analyte	Result MG/KG	Report Limit MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	7.58	5035	1	08/17/05
Diesel Range Organics	BQL	7.37	3545	1	08/23/05

Comments:

Reviewed By:
TPH_LIMS_v1.82.XLS

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: P5GP4-20
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID: G106-536-4
Lab Project ID: G106-536
Report Basis: Dry Weight

Analyzed By: DCS
Date Collected: 8/11/05 11:50
Date Received: 8/13/05
Matrix: Soil
Solids 71.04

Analyte	Result MG/KG	Report Limit MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	7.88	5035	1	08/17/05
Diesel Range Organics	BQL	8.59	3545	1	08/23/05

Comments:

Reviewed By:
TPH_LIMS_v1.82.XLS

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Total Petroleum Hydrocarbons

by GC/FID 8015

Client Sample ID: P5GP5-20

Analyzed By: DCS

Client Project ID: Parcel 5 Tip#U-2826A

Date Collected: 8/11/05 12:00

Lab Sample ID: G106-536-5

Date Received: 8/13/05

Lab Project ID: G106-536

Matrix: Soil

Report Basis: Dry Weight

Solids 75.51

Analyte	Result MG/KG	Report Limit MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	7.22	5035	1	08/17/05
Diesel Range Organics	BQL	8.17	3545	1	08/23/05

Comments:

Reviewed By: EW

TPH_LIMS_v1.82.XLS

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: P5GP2-20
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID G106-536-2A
Lab Project ID: G106-536
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 08-10-2005 13:45
Date Received: 8/13/05
Matrix: Soil
%Solids: 71.4

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	79.1	1	8/17/05
Benzene	BQL	7.91	1	8/17/05
Bromobenzene	BQL	7.91	1	8/17/05
Bromochloromethane	BQL	7.91	1	8/17/05
Bromodichloromethane	BQL	7.91	1	8/17/05
Bromoform	BQL	7.91	1	8/17/05
Bromomethane	BQL	7.91	1	8/17/05
2-Butanone	BQL	39.5	1	8/17/05
n-Butylbenzene	BQL	7.91	1	8/17/05
sec-Butylbenzene	BQL	7.91	1	8/17/05
tert-Butylbenzene	BQL	7.91	1	8/17/05
Carbon disulfide	BQL	7.91	1	8/17/05
Carbon tetrachloride	BQL	7.91	1	8/17/05
Chlorobenzene	BQL	7.91	1	8/17/05
Chloroethane	BQL	7.91	1	8/17/05
Chloroform	BQL	7.91	1	8/17/05
Chloromethane	BQL	7.91	1	8/17/05
2-Chlorotoluene	BQL	7.91	1	8/17/05
4-Chlorotoluene	BQL	7.91	1	8/17/05
Dibromochloromethane	BQL	7.91	1	8/17/05
1,2-Dibromo-3-chloropropane	BQL	7.91	1	8/17/05
Dibromomethane	BQL	7.91	1	8/17/05
1,2-Dibromoethane (EDB)	BQL	7.91	1	8/17/05
1,2-Dichlorobenzene	BQL	7.91	1	8/17/05
1,3-Dichlorobenzene	BQL	7.91	1	8/17/05
1,4-Dichlorobenzene	BQL	7.91	1	8/17/05
trans-1,4-Dichloro-2-butene	BQL	7.91	1	8/17/05
1,1-Dichloroethane	BQL	7.91	1	8/17/05
1,1-Dichloroethene	BQL	7.91	1	8/17/05
1,2-Dichloroethane	BQL	7.91	1	8/17/05
cis-1,2-Dichloroethene	BQL	7.91	1	8/17/05
trans-1,2-dichloroethene	BQL	7.91	1	8/17/05
1,2-Dichloropropane	BQL	7.91	1	8/17/05
1,3-Dichloropropane	BQL	7.91	1	8/17/05
2,2-Dichloropropane	BQL	7.91	1	8/17/05
1,1-Dichloropropene	BQL	7.91	1	8/17/05
cis-1,3-Dichloropropene	BQL	7.91	1	8/17/05
trans-1,3-Dichloropropene	BQL	7.91	1	8/17/05
Dichlorodifluoromethane	BQL	7.91	1	8/17/05
Diisopropyl ether (DIPE)	BQL	7.91	1	8/17/05
Ethylbenzene	BQL	7.91	1	8/17/05
Hexachlorobutadiene	BQL	7.91	1	8/17/05

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: P5GP2-20
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID G106-536-2A
Lab Project ID: G106-536
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 08-10-2005 13:45
Date Received: 8/13/05
Matrix: Soil
%Solids: 71.4

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	7.91	1	8/17/05
Iodomethane	BQL	7.91	1	8/17/05
Isopropylbenzene	BQL	7.91	1	8/17/05
4-Isopropyltoluene	BQL	7.91	1	8/17/05
Methylene chloride	BQL	31.6	1	8/17/05
4-Methyl-2-pentanone	BQL	7.91	1	8/17/05
Methyl-tert-butyl ether (MTBE)	BQL	7.91	1	8/17/05
Naphthalene	BQL	7.91	1	8/17/05
n-Propyl benzene	BQL	7.91	1	8/17/05
Styrene	BQL	7.91	1	8/17/05
1,1,1,2-Tetrachloroethane	BQL	7.91	1	8/17/05
1,1,2,2-Tetrachloroethane	BQL	7.91	1	8/17/05
Tetrachloroethene	BQL	7.91	1	8/17/05
Toluene	BQL	7.91	1	8/17/05
1,2,3-Trichlorobenzene	BQL	7.91	1	8/17/05
1,2,4-Trichlorobenzene	BQL	7.91	1	8/17/05
Trichloroethene	BQL	7.91	1	8/17/05
1,1,1-Trichloroethane	BQL	7.91	1	8/17/05
1,1,2-Trichloroethane	BQL	7.91	1	8/17/05
Trichlorofluoromethane	BQL	7.91	1	8/17/05
1,2,3-Trichloropropane	BQL	7.91	1	8/17/05
1,2,4-Trimethylbenzene	BQL	7.91	1	8/17/05
1,3,5-Trimethylbenzene	BQL	7.91	1	8/17/05
Vinyl chloride	BQL	7.91	1	8/17/05
m-,p-Xylene	BQL	15.8	1	8/17/05
o-Xylene	BQL	7.91	1	8/17/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	53.9	108
1,2-Dichloroethane-d4	50	60.8	122
Toluene-d8	50	54.4	109

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: P5GP2-20
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID: G106-536-2K
Lab Project ID: G106-536
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 8/10/2005 13:45
Date Received: 8/13/2005
Date Extracted: 8/22/2005
Matrix: Soil
% Solids: 71.37

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	421	1	8/23/2005
Acenaphthylene	BQL	421	1	8/23/2005
Anthracene	BQL	421	1	8/23/2005
Benzo[a]anthracene	BQL	421	1	8/23/2005
Benzo[a]pyrene	BQL	421	1	8/23/2005
Benzo[b]fluoranthene	BQL	421	1	8/23/2005
Benzo[g,h,i]perylene	BQL	421	1	8/23/2005
Benzo[k]fluoranthene	BQL	421	1	8/23/2005
Benzoic Acid	BQL	841	1	8/23/2005
Bis(2-chloroethoxy)methane	BQL	421	1	8/23/2005
Bis(2-chloroethyl)ether	BQL	421	1	8/23/2005
Bis(2-chloroisopropyl)ether	BQL	421	1	8/23/2005
Bis(2-ethylhexyl)phthalate	BQL	421	1	8/23/2005
4-bromophenyl phenyl ether	BQL	421	1	8/23/2005
Butylbenzylphthalate	BQL	421	1	8/23/2005
2-Chloronaphthalene	BQL	421	1	8/23/2005
2-Chlorophenol	BQL	421	1	8/23/2005
4-Chloro-3-methylphenol	BQL	421	1	8/23/2005
4-Chloroaniline	BQL	2100	1	8/23/2005
4-Chlorophenyl phenyl ether	BQL	421	1	8/23/2005
Chrysene	BQL	421	1	8/23/2005
Dibenzo[a,h]anthracene	BQL	421	1	8/23/2005
Dibenzofuran	BQL	421	1	8/23/2005
Di-n-Butylphthalate	BQL	421	1	8/23/2005
1,2-Dichlorobenzene	BQL	421	1	8/23/2005
1,3-Dichlorobenzene	BQL	421	1	8/23/2005
1,4-Dichlorobenzene	BQL	421	1	8/23/2005
3,3'-Dichlorobenzidine	BQL	841	1	8/23/2005
2,4-Dichlorophenol	BQL	421	1	8/23/2005
Diethylphthalate	BQL	421	1	8/23/2005
Dimethylphthalate	BQL	421	1	8/23/2005
2,4-Dimethylphenol	BQL	421	1	8/23/2005
Di-n-octylphthalate	BQL	421	1	8/23/2005
4,6-Dinitro-2-methylphenol	BQL	2100	1	8/23/2005
2,4-Dinitrophenol	BQL	2100	1	8/23/2005
2,4-Dinitrotoluene	BQL	421	1	8/23/2005
2,6-Dinitrotoluene	BQL	421	1	8/23/2005
Diphenylamine *	BQL	421	1	8/23/2005
Fluoranthene	BQL	421	1	8/23/2005
Fluorene	BQL	421	1	8/23/2005
Hexachlorobenzene	BQL	421	1	8/23/2005
Hexachlorobutadiene	BQL	421	1	8/23/2005

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: P5GP2-20
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID: G106-536-2K
Lab Project ID: G106-536
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 8/10/2005 13:45
Date Received: 8/13/2005
Date Extracted: 8/22/2005
Matrix: Soil
% Solids: 71.37

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
Hexachlorocyclopentadiene	BQL	841	1	8/23/2005
Hexachloroethane	BQL	421	1	8/23/2005
Indeno(1,2,3-c,d)pyrene	BQL	421	1	8/23/2005
Isophorone	BQL	421	1	8/23/2005
2-Methylnaphthalene	BQL	421	1	8/23/2005
2-Methylphenol	BQL	421	1	8/23/2005
3- & 4-Methylphenol	BQL	421	1	8/23/2005
Naphthalene	BQL	421	1	8/23/2005
2-Nitroaniline	BQL	421	1	8/23/2005
3-Nitroaniline	BQL	2100	1	8/23/2005
4-Nitroaniline	BQL	2100	1	8/23/2005
Nitrobenzene	BQL	421	1	8/23/2005
2-Nitrophenol	BQL	421	1	8/23/2005
4-Nitrophenol	BQL	2100	1	8/23/2005
N-Nitrosodi-n-propylamine	BQL	421	1	8/23/2005
Pentachlorophenol	BQL	2100	1	8/23/2005
Phenanthrene	BQL	421	1	8/23/2005
Phenol	BQL	421	1	8/23/2005
Pyrene	BQL	421	1	8/23/2005
1,2,4-Trichlorobenzene	BQL	421	1	8/23/2005
2,4,5-Trichlorophenol	BQL	421	1	8/23/2005
2,4,6-Trichlorophenol	BQL	421	1	8/23/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.6	96
2-Fluorophenol	10	10.2	102
Nitrobenzene-d5	10	8.4	84
Phenol-d6	10	9.3	93
2,4,6-Tribromophenol	10	7.8	78
4-Terphenyl-d14	10	11.8	118

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

List of Reporting Abbreviations
and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

PARADIGM ANALYTICAL LABORATORIES, INC.
 5500 Business Drive, Wilmington, NC 28405
 Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 48116

Page 1 of 12

Project ID: PARCEL 05

Client: ET, INC.

Date: 8-10-05

Report To: DAVID LORCH

Address: 2106 ATRAILWAY, BLDG

Turnaround: 5-7-10-11

Invoice To: NCBT TIPA

Address: SITE 2002 MOBILE, NC

Job Number: ENMO 050 015 00

Comments: Please specify any special reporting requirements

Quote #: 2380

Phone: 919-544-7800

Analysis: TPH 6RO

Fax: 919-544-2999

P.O. Number: 8260

Analysis: TPH DR0

Sample ID	Date	Time	Preservatives	Analysis		Temperature	State Certification Requested
				8260	8270		
P56P1-20	8-10-05	1330		X	X	2.3	NC <input checked="" type="checkbox"/> SC <input type="checkbox"/> Other <input type="checkbox"/>
P56P2-20	8-11-05	1345		X	X	2.3	NC <input checked="" type="checkbox"/> SC <input type="checkbox"/> Other <input type="checkbox"/>
P56P2-20	8-11-05	1415		X	X	2.3	NC <input checked="" type="checkbox"/> SC <input type="checkbox"/> Other <input type="checkbox"/>
P56P4-20	8-11-05	1150		X	X	2.3	NC <input checked="" type="checkbox"/> SC <input type="checkbox"/> Other <input type="checkbox"/>
P56P5-20	8-11-05	1200		X	X	2.3	NC <input checked="" type="checkbox"/> SC <input type="checkbox"/> Other <input type="checkbox"/>

Received By: [Signature] Date: 8-12-05

Received By: [Signature] Date: 8/16/05 3:30 PM

ORIGINAL

Mr. Darren Lockhart
Environmental Investigations
2101 Gateway Centre Boulevard
Suite 200
Morrisville NC 27560
Report Number: G106-546
Client Project: Parcel 5 Tip#U-2826A

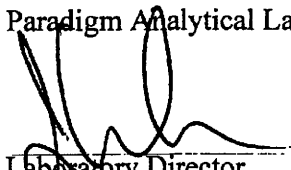
Dear Mr. Lockhart:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.


Laboratory Director
J. Patrick Weaver

9/9/05
Date

Results for Volatiles

by GC 6230D

Client Sample ID: TW-1

Analyzed By: MJC

Client Project ID: Parcel 5 Tip#U-2826A

Date Collected: 8/30/2005 9:30

Lab Sample ID: G106-546-1A

Date Received: 9/1/2005

Lab Project ID: G106-546

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.500	1	9/2/2005
Bromobenzene	BQL	0.500	1	9/2/2005
Bromochloromethane	BQL	0.500	1	9/2/2005
Bromodichloromethane	BQL	0.500	1	9/2/2005
Bromoform	BQL	0.500	1	9/2/2005
Bromomethane	BQL	0.500	1	9/2/2005
n-Butylbenzene	BQL	0.500	1	9/2/2005
sec-Butylbenzene	BQL	0.500	1	9/2/2005
tert-Butylbenzene	BQL	0.500	1	9/2/2005
Carbon tetrachloride	BQL	0.500	1	9/2/2005
Chlorobenzene	BQL	0.500	1	9/2/2005
Chloroethane	BQL	0.500	1	9/2/2005
Chloroform	13.3	0.500	1	9/2/2005
Chloromethane	BQL	0.500	1	9/2/2005
2-Chlorotoluene	BQL	0.500	1	9/2/2005
4-Chlorotoluene	BQL	0.500	1	9/2/2005
Dibromochloromethane	BQL	0.500	1	9/2/2005
1,2-Dibromo-3-chloropropane	BQL	0.500	1	9/2/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	9/2/2005
Dibromomethane	BQL	0.500	1	9/2/2005
1,2-Dichlorobenzene	BQL	0.500	1	9/2/2005
1,3-Dichlorobenzene	BQL	0.500	1	9/2/2005
1,4-Dichlorobenzene	BQL	0.500	1	9/2/2005
Dichlorodifluoromethane	BQL	0.500	1	9/2/2005
1,1-Dichloroethane	BQL	0.500	1	9/2/2005
1,2-Dichloroethane	BQL	0.500	1	9/2/2005
1,1-Dichloroethene	BQL	0.500	1	9/2/2005
cis-1,2-Dichloroethene	BQL	0.500	1	9/2/2005
trans-1,2-Dichloroethene	BQL	0.500	1	9/2/2005
1,2-Dichloropropane	BQL	0.500	1	9/2/2005
2,2-Dichloropropane	BQL	0.500	1	9/2/2005
cis-1,3-Dichloropropene	BQL	0.500	1	9/2/2005
trans-1,3-Dichloropropene	BQL	0.500	1	9/2/2005
Diisopropyl ether (DIPE)	BQL	0.500	1	9/2/2005
Ethylbenzene	BQL	0.500	1	9/2/2005
Hexachlorobutadiene	BQL	0.500	1	9/2/2005
Isopropylbenzene	BQL	0.500	1	9/2/2005
p-Isopropyltoluene	BQL	0.500	1	9/2/2005
Methyl-tert butyl ether (MTBE)	BQL	0.500	1	9/2/2005
Methylene Chloride	BQL	5.00	1	9/2/2005
Naphthalene	0.619	0.500	1	9/2/2005
n-Propylbenzene	BQL	0.500	1	9/2/2005

Results for Volatiles
by GC 6230D

Client Sample ID: TW-1
Client Project ID: Parcel 5 Tip#U-2826A
Lab Sample ID: G106-546-1A
Lab Project ID: G106-546

Analyzed By: MJC
Date Collected: 8/30/2005 9:30
Date Received: 9/1/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Styrene	BQL	1.00	1	9/2/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	9/2/2005
1,1,2,2-Tetrachloroethane	BQL	0.500	1	9/2/2005
Tetrachloroethene	BQL	0.500	1	9/2/2005
Toluene	BQL	0.500	1	9/2/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	9/2/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	9/2/2005
1,1,1-Trichloroethane	BQL	0.500	1	9/2/2005
1,1,2-Trichloroethane	BQL	0.500	1	9/2/2005
Trichloroethene	BQL	0.500	1	9/2/2005
Trichlorofluoromethane	BQL	0.500	1	9/2/2005
1,2,3-Trichloropropane	BQL	0.500	1	9/2/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	9/2/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	9/2/2005
Vinyl Chloride	BQL	0.500	1	9/2/2005
m/p-Xylene	BQL	1.00	1	9/2/2005
o-Xylene	BQL	1.00	1	9/2/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.1	103
1,4-Dichlorobutane	40	40.7	102

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

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RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

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- 2) Uncertainty for all reported data is less than or equal to 30 percent.

PARADIGM ANALYTICAL LABORATORIES, INC.

5500 Business Drive, Wilmington, NC 28405

Chain-of Custody Record & Analytical Request

Phone: (910)-350-1903 FAX: (910)-350-1557

7104 U-2826A

WBS # 34871.1.1

Page ___ of ___

COC# 50634

5 of 5

Client: FF, INC.

Project ID: PH025

Date: 8-30-05

Report To: DAVID LOCKHART

Address: 2106 EASTMAN DR. #100

Contact: DAVID LOCKHART

Turnaround: STANDARD

Report To: DAVID LOCKHART

Address: 5501R 200, MCDONALD

Phone: 919-544-7800

Job Number: EW0505005.00

Quote #: NC 2850

Fax: 919-544-2199

P.O. Number:

Invoice To: FF, INC.

PARADIGM ANALYTICAL LABORATORIES, INC.

Sample ID	Date	Time	Matrix	Preservatives				Analyses				Comments: Please specify any special reporting requirements										
1W-1	8-30-05	0930	604														6230					G106-546

Relinquished By: [Signature]

Date: 8-30-05

Received By: [Signature]

Date: 7/1/05

Time: 0950

Temperature: 02.035

Style Certification Requested

NC SC Other

SEE REVERSE FOR TERMS AND CONDITIONS

OFFICIAL