

**Preliminary Site Assessment
Gary Beam Property Parcel #938
Shelby, Cleveland County, NC**

**H&H Job No. ROW-201
State Project R-2707C
WBS Element # 34497.1.2
October 17, 2008**



2923 South Tryon Street
Suite 100
Charlotte, NC 28203
704-586-0007

3334 Hillsborough Street
Raleigh, NC 27607
919-847-4241

**Preliminary Site Assessment
Gary Beam Property Parcel #938
Shelby, Cleveland County, North Carolina
H&H Project ROW-201**

Table of Contents

| <u>Section</u> | <u>Page No.</u> |
|--|------------------------|
| 1.0 Introduction..... | 1 |
| 2.0 Site Assessment..... | 2 |
| 3.0 Analytical Results..... | 3 |
| 4.0 Summary and Regulatory Considerations | 4 |
| 5.0 Signature Page..... | 5 |

List of Tables

Table 1 Soil Analytical Results – Gary Beam Property Parcel #938

List of Figures

Figure 1 Site Location Map
Figure 2 Site Map
Figure 3 Soil Sample Location Map

List of Appendices

Appendix A NC DOT Preliminary Plan
Appendix B Notice of No Further Action
Appendix C Schnabel Geophysical Report
Appendix D Soil Boring Logs
Appendix E Laboratory Analytical Report

**Preliminary Site Assessment
Gary Beam Property Parcel #938
Shelby, Cleveland County, North Carolina
H&H Project ROW-201**

1.0 Introduction

Hart & Hickman, PC (H&H) has prepared this Preliminary Site Assessment (PSA) report documenting assessment activities performed at the Gary Beam property (NC DOT Parcel #938) located at 1001 Cherryville Road in Shelby, Cleveland County, North Carolina. This assessment was conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with the scope of work outlined in our August 18, 2008 proposal.

The purpose of this assessment was to determine the potential for underground storage tank (UST) systems and impacted soils due to historical site operations at the subject property in the proposed construction areas related to NC DOT State Project R-2707C. A site location map is included as Figure 1 and a site map is presented as Figure 2. The NC DOT preliminary plan of the construction area near the Gary Beam property (NC DOT Parcel #938) is included in Appendix A.

The property formerly operated as the 330 Mini Mart and dispensed petroleum products for retail sale. A former quilt shop and several sheds are also located on the property. H&H reviewed UST incident files for the former 330 Mini Mart at the North Carolina Department of Environment and Natural Resources (DENR) Asheville Regional Office to better target former UST system areas and to find the locations of previously reported petroleum impacts.

Five petroleum USTs were removed from the site on March 11, 1993. The UST systems consisted of two 1,000-gallon gasoline USTs, one 2,000-gallon gasoline UST, one 550-gallon gasoline UST, one 550-gallon kerosene UST, and associated pump islands. Petroleum impacted soils were encountered during UST removal activities. Total Petroleum Hydrocarbons (TPH) were detected in UST closure samples ranging from 130 mg/kg to 11,000 mg/kg. No impacted soil was removed from the site. The UST system locations are shown on Figure 2.

Subsequent assessment activities revealed that ground water was also impacted in excess of the 15A NCAC 2L.0202 Ground Water Quality Standards (2L standards) due to the petroleum release at the site. As part of assessment activities six Type II monitoring wells and one Type III monitoring well were installed at the site. The depth to ground water was approximately 13 ft. A soil vapor extraction (SVE) and air sparge (AS) system was installed and started at the site in January 1996 to remediate petroleum impacted soils and ground water.

On September 29, 1998, DENR issued a risk-based Notice of No Further Action (NFA) letter for the 330 Mini Mart site. The DENR NFA letter stated that the soil contamination does not exceed the industrial/commercial maximum soil contaminant concentrations (MSCCs) and impacted groundwater does not exceed gross contamination levels established in 15A NCAC 2L .0115. Soil was not cleaned up to the residential MSCCs and is not suitable for residential use. Additionally, ground water was not cleaned up to the 2L Standard and is not suitable for use as a water supply. A copy of the NFA letter is included in Appendix B.

Monitoring wells and AS/SVE wells associated with assessment and remediation activities at the site have been abandoned. The AS/SVE system has also been removed from the site.

2.0 Site Assessment

Soil Assessment Field Activities

Prior to advancing soil borings, H&H reviewed a geophysical survey performed by Schnabel Engineering (Schnabel) on August 19 and 21, 2008. Schnabel utilized ground penetrating radar (GPR) and time domain electromagnetic (TDEM) technology to identify geophysical anomalies and potential USTs at the site. The Schnabel results indicated several magnetic anomalies attributed to known site features, two linear anomalies in response to buried concrete drainage pipes, and several anomalies not attributed to known site features. Schnabel was initially concerned that the linear feature on the western portion of the property was potentially a UST. H&H personnel later field verified that the linear feature on the western portion of the property was a concrete drainage pipe. The GPR survey did not show evidence of USTs at the TDEM anomalies. Schnabel's report

including a site map depicting the results of the GPR and TDEM surveys is included in Appendix C.

H&H mobilized to the Gary Beam property on August 27, 2008 to advance twelve soil borings (938-1 through 938-12) by direct push technology (DPT). Prior to conducting soil borings, utilities were marked by NC One Call. Borings were also cleared to a five foot depth by hand auger. H&H utilized Probe Technology, Inc. of Concord, North Carolina to advance soil borings 938-1 through 938-12 by DPT (Figure 3). To facilitate the selection of soil samples for laboratory analysis from these borings, soil was screened continuously for the presence of volatile organic compounds (VOCs) with an organic vapor analyzer (OVA). Additionally, H&H observed the soil for visual and olfactory indications of petroleum impacts. In general, a soil sample from each boring that exhibited the highest reading on the OVA was selected for laboratory analysis. Soil boring logs are included in Appendix D.

H&H submitted thirteen samples from the twelve soil borings for laboratory analysis. Soil samples are identified by the NC DOT Parcel number, soil boring, and the depth interval in feet (ft). Samples were sent to Prism Laboratories Inc. of Charlotte, North Carolina under standard chain-of-custody procedure for analysis of total petroleum hydrocarbons (TPH) for gasoline-range organics (GRO) and diesel-range organics (DRO) by EPA Method 8015B. Sample depths and analytical results are summarized in Table 1. Laboratory analytical data sheets for the Parcel 938 samples and chain-of-custody documentation for this site are provided in Appendix E. The analytical results are discussed below.

3.0 Analytical Results

Target analytes were detected in five soil samples collected from Parcel 938. Concentrations of TPH GRO detected in soil samples 938-1 and 938-8 exceed the NC DENR Action Level of 10 mg/kg. Concentrations of TPH DRO were detected in soil samples 938-1, 938-2 (2-4 ft and 8-10 ft), 938-4, and 938-8 above the NC DENR Action Level of 10 mg/kg.

Based on laboratory analytical results, TPH concentrations are present on Parcel 938 in two areas at the site: at the former gasoline UST basin (near boring 938-2) and at the former kerosene UST basin (near boring 938-8). H&H estimates that there are a total of 270 cubic yards (400 tons) of impacted soil between depths of 2 and 12 ft near boring 938-2 and a total of 170 cubic yards (260 tons) of impacted soil between depths of 3 and 12 ft near boring 938-8. DOT plans indicate proposed fill in the areas of impacted soil; therefore, it is not likely the impacted soils will be disturbed.

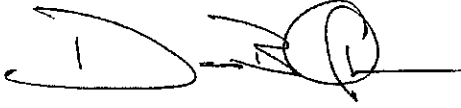
4.0 Summary and Regulatory Considerations

H&H has reviewed DENR incident files, geophysical survey results and collected a total of thirteen soil samples at Parcel 938. No USTs appear to be present on the subject property. Review of DENR files indicate previously reported petroleum impacted soil and ground water at the site. USTs associated with the petroleum release were removed from the site in 1993. DENR issued a risk-based Notice of No Further Action letter for impacted soil and ground water on September 29, 1998.

Analytical results of soil samples collected by H&H indicate TPH DRO and TPH GRO at concentrations above the NC DENR Action Level in five of the soil samples collected. H&H estimates that there are a total of 270 cubic yards (400 tons) of impacted soil between depths of 2 and 12 ft near boring 938-2 and a total of 170 cubic yards (260 tons) of impacted soil between depths of 3 and 12 ft near boring 938-8. The impacted soil is situated in two localized areas. DOT plans indicate proposed fill in the areas of impacted soil; therefore, it is not likely the impacted soils will be disturbed.

5.0 Signature Page

This report was prepared by:

A handwritten signature in black ink, appearing to read 'David Graham', written over a horizontal line.

David Graham
Project Geologist for
Hart and Hickman, PC

This report was reviewed by:

A handwritten signature in black ink, appearing to read 'Matt Bramblett', written over a horizontal line.

Matt Bramblett, PE
Principal and Project Manager for
Hart and Hickman, PC

Table 1
Soil Analytical Results
Gary Beam Property #938
Shelby, North Carolina
H&H Job No. ROW-201

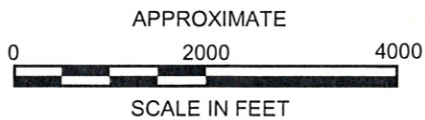
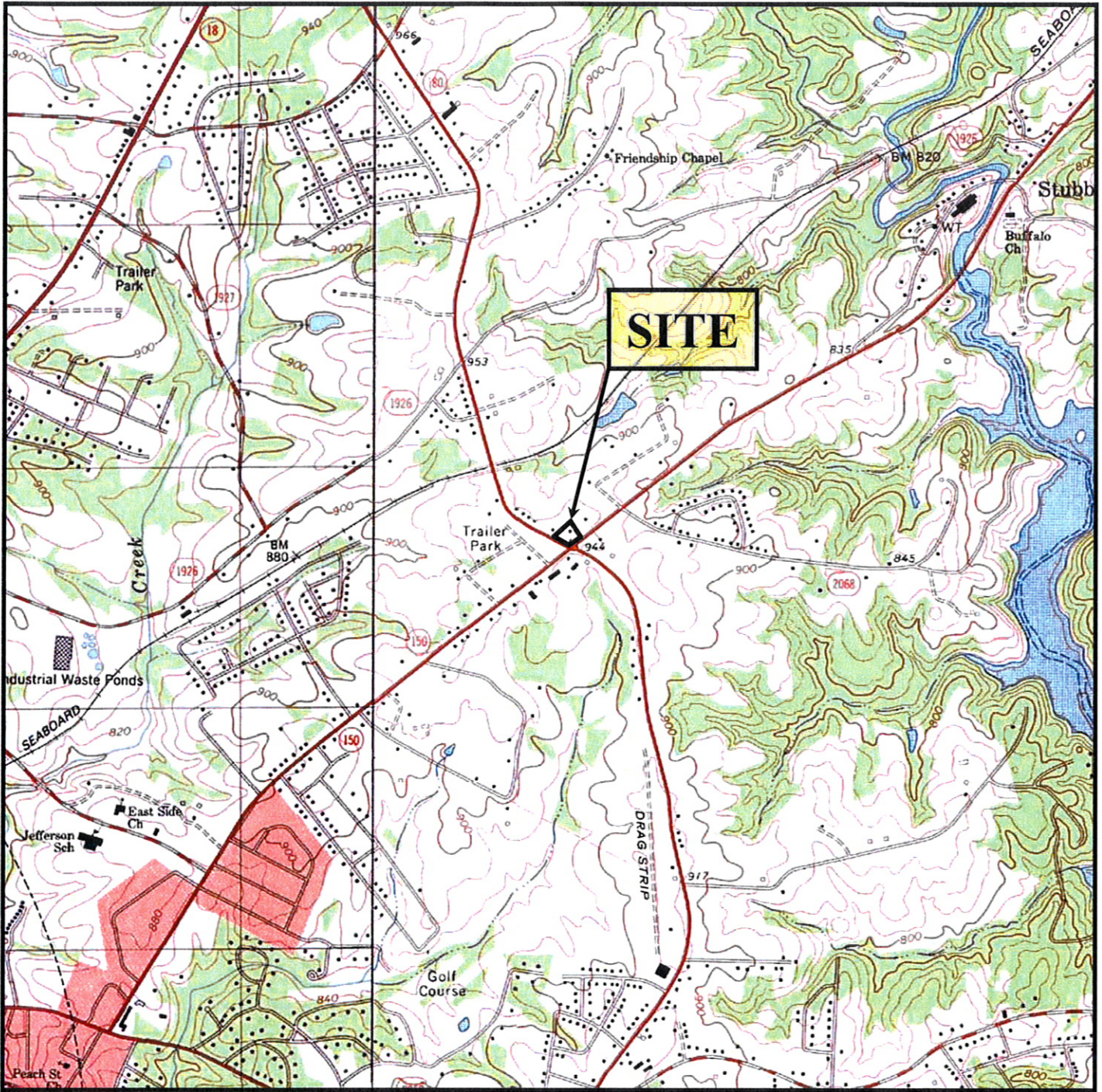
| Sample ID | 938-1 | 938-2 | 938-2 | 938-3 | 938-4 | 938-5 | 938-6 | 938-7 | 938-8 | 938-9 | 938-10 | 938-11 | 938-12 | NC DENR |
|--|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|---------|
| Sample Depth (ft) | 6-8 | 2-4 | 8-10 | 6-8 | 6-8 | 8-10 | 8-10 | 4-6 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | Action |
| Sample Date | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | 8/27/2008 | Level |
| Units | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| <u>TPH-GRO (EPA Method 5035/8015B)</u> Gasoline-Range Organics (GRO) | 490 | 10 | <5.7 | <5.9 | <6.3 | <6.2 | <6.3 | <5.9 | 140 | <5.8 | <6.1 | <6.1 | <6.2 | 10 |
| <u>TPH-DRO (EPA Method 8015B)</u> Diesel-Range Organics (DRO) | 240 | 130 | 28 | <8.2 | 11 | <8.7 | <8.8 | <8.2 | 990 | <8.1 | <8.5 | <8.5 | <8.6 | 10 |

Notes:

TPH = total petroleum hydrocarbons

mg/kg = milligrams per kilogram


Bold denotes value in excess of NC DENR Action Levels



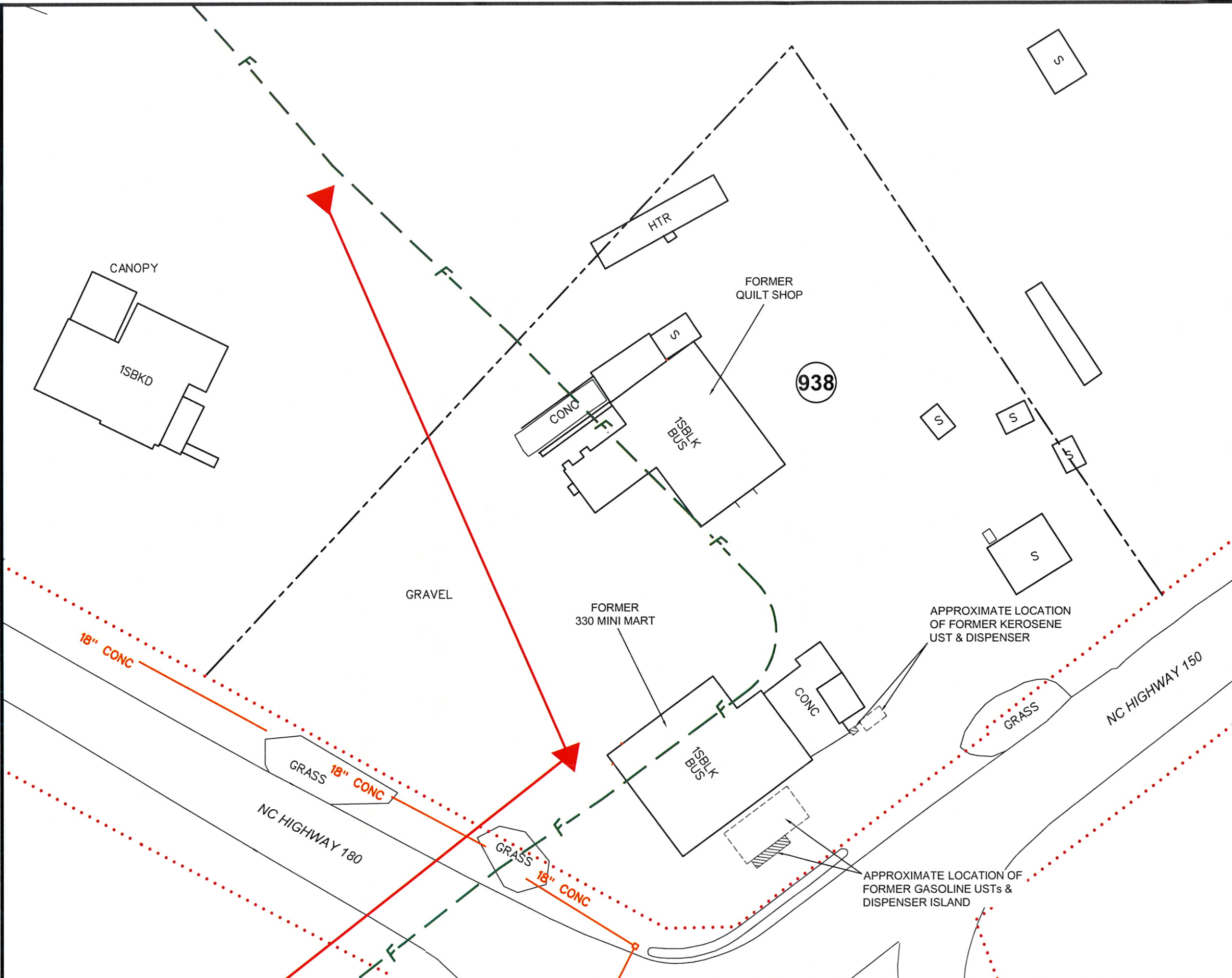
U.S.G.S. QUADRANGLE MAP

WACO, NC 1973

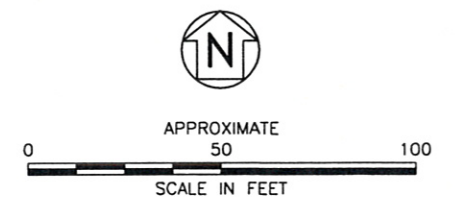
QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)


| | | |
|---------|---|----------------|
| TITLE | SITE LOCATION MAP | |
| PROJECT | GARY BEAM PROPERTY PARCEL 39 SHELBY, NORTH CAROLINA | |
| |  2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 A PROFESSIONAL CORPORATION 704-586-0007 (p) 704-586-0373 (f) | |
| DATE: | 9-16-08 | REVISION NO: 0 |
| JOB NO: | ROW-201 | FIGURE: 1 |

S:\AA-Master-Projects\NC DOT Right-of-Way - ROW\ROW-201 - Shabby PSA\Figures\2008-10-16_FIG-02_ROW-201.dwg, FIG-02_ROW-201.dwg, 10/17/2008 7:48:25 AM, lserver1\SHARP.MX 7000, 1:1

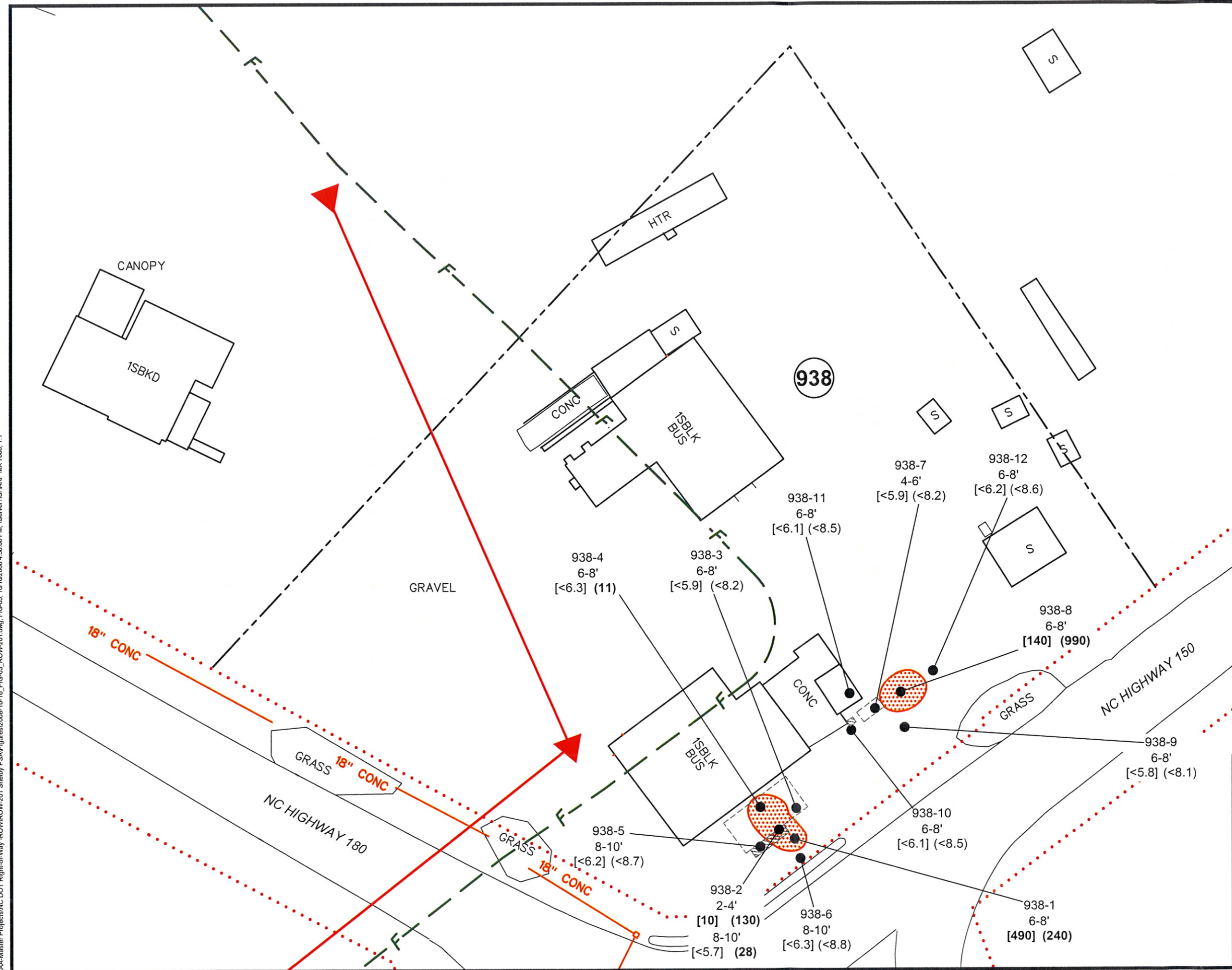


- LEGEND**
- PROPERTY LINE
 - 18" CONC— EXISTING CONCRETE DRAINAGE PIPING
 - EXISTING RIGHT-OF-WAY
 - ▲ PROPOSED RIGHT-OF-WAY
 - F- PROPOSED FILL LINE
 - FORMER UST LOCATION
 - ▨ FORMER DISPENSER LOCATION
 - 938 PARCEL NUMBER

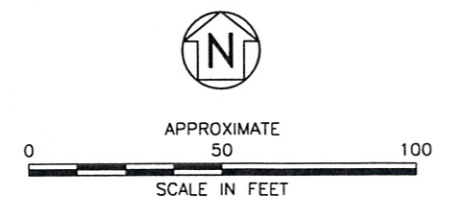



| | | |
|-----------------|---|--|
| TITLE | SITE MAP | |
| PROJECT | GARY BEAM PROPERTY PARCEL #39 SHELBY, NORTH CAROLINA | |
| |  2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) | |
| DATE: 9-30-08 | REVISION NO. 0 | |
| JOB NO: ROW-201 | FIGURE NO. 2 | |

S:\AAA-Master Projects\NC DOT Right-of-Way-ROW\ROW-201_Shelby\PSA\Figures\2008-10-16_FIG-03_10/16/2008 4:38:08 PM_1\server\ISHARP.MX 7000, 1:1



- LEGEND**
- PROPERTY LINE
 - 18" CONC— EXISTING CONCRETE DRAINAGE PIPING
 - EXISTING RIGHT-OF-WAY
 - ▲— PROPOSED RIGHT-OF-WAY
 - F- PROPOSED FILL LINE
 - ▨ IMPACTED SOIL AREA
 - SOIL BORING
 - ▭ FORMER UST LOCATION
 - ▨ FORMER DISPENSER LOCATION
 - 938 PARCEL NUMBER
 - [] = TPH GRO mg/kg
 - () = TPH DRO mg/kg
 - BOLD DENOTES EXCEEDANCE OF NCDENR ACTION LEVEL**




| | |
|---|----------------|
| TITLE SOIL SAMPLE LOCATION MAP | |
| PROJECT GARY BEAM PROPERTY PARCEL #39 SHELBY, NORTH CAROLINA | |
|  2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) | |
| DATE: 9-30-08 | REVISION NO. 0 |
| JOB NO: ROW-201 | FIGURE NO. 3 |

Appendix A
NC DOT Preliminary Plan

Appendix B

Notice of No Further Action


NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
MOORESVILLE REGIONAL OFFICE

DIVISION OF WASTE MANAGEMENT

September 29, 1998

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Petroleum World, Inc.
681 NC 120 Highway
Mooresboro, North Carolina 28114-6713
Attention: Debbie Sailors

SEP 30 1998
ST. ASS.

RE: Notice of No Further Action
15A NCAC 2L .0115(h)
RISK-BASED ASSESSMENT AND CORRECTIVE
ACTION FOR PETROLEUM UNDERGROUND
STORAGE TANKS (USTs)

330 Mini-Mart
1001 Cherryville Road, Shelby
Cleveland County, N.C.
Low Risk Classification
Pollution Incident # 10208

Dear Ms. Sailors:

On September 28, 1998, the Division of Waste Management (DWM) Mooresville Regional Office received Site Closure Request for the above-referenced site. A review of the report shows that soil contamination does not exceed the industrial/commercial maximum soil contaminant concentrations established in 15A NCAC 2L .0115(m) or the soil cleanup levels established by the Department in the "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater" (March 1997)]. A review of the Site Closure Request and the pollution incident file also shows that contaminated groundwater does not exceed gross contamination levels that were established in 15A NCAC 2L .0115(g).

Based on information provided to date, the DWM determines that no further action is required for this incident. This determination is conditional pending completion of the public notice specified below. Once proper public notice has been given, this determination will apply unless the DWM later determines that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

Please be advised that because contaminated groundwater has not been restored to the level of the standard or interim standard established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate, is not suitable for use as a water supply. Also be advised that because contaminated soil was not cleaned up to the residential maximum soil contaminant concentrations, the property containing soil contamination is not suitable for residential use (e.g., homes, day care centers, schools, recreation areas).

919 NORTH MAIN STREET, MOORESVILLE, NORTH CAROLINA 28115
PHONE 704-663-1699 FAX 704-663-6040

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER - 50% RECYCLED/10% POST-CONSUMER PAPER



JAMES B. HUNT JR.
GOVERNOR

WAYNE McDEVITT
SECRETARY

Pursuant to 15A NCAC 2L .0115(e), you have a continuing obligation to notify the DWM of any changes that you know of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the discharge or release, if such change could cause the DWM to reclassify the risk. Please note that this responsibility not only pertains to changes involving the property on which the release occurred, but to changes involving the surrounding properties as well.

Please be advised that you must comply with the public notice requirements of 15A NCAC 2L .0115(k) as specified below. **If public notice is not provided as required, this no further action determination will be deemed invalid.** Within 30 days of receipt of this no further action notice, you must provide a copy of this notice to the following persons:

- local health director;
- chief administrative officer (i.e., Mayor, Chairman of the County Commissioners, County Manager, City Manager or other official of equal or similar position) of each political jurisdiction in which the contamination occurs;
- all property owners and occupants within or contiguous to the area containing contamination; and
- all property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Copies of this no further action notice must be sent to the persons listed above by certified mail. If it is impractical to provide notice by certified mail to the occupants of apartment buildings, condominiums, office buildings, etc., you may post a copy of this notice in a prominent place where the occupants are most likely to see it.

Within 60 days of receiving this no further action notice, you must provide the DWM Mooresville Regional Office with proof of receipt of the copy of the notice or of refusal by the addressee to accept delivery of the copy of the notice. If a copy of the notice is posted, you must provide the DWM with a description of the manner in which the notice was posted.

Interested parties may examine the Site Closure Request along with other site information in the DWM Mooresville Regional Office. In addition, comments on the Site Closure Request may be submitted to me at the letterhead address.

Please be advised that you must close any monitoring wells used to investigate or remediate this incident in accordance with 15A NCAC 2C .0113.

Should you have any questions concerning this notice, please contact me at (704) 663-1699, ext. 244.

Sincerely,



Robert B. Krebs, P.G.
Regional UST Supervisor

Attachments: 15A NCAC 2C .0113

) Brian Bishop - Shield Environmental
Fay Sweat - Incident Management Files

Appendix C
Schnabel Geophysical Report

September 9, 2008

Mr. Matt Bramblett, PE, Project Manger
Hart & Hickman, PC
2923 South Tryon Street, Suite 100
Charlotte, NC 28203

Via email (pdf)

cc: Mr. Cyrus Parker and Mr. Ethan Caldwell, NCDOT
Mr. David Graham, Hart & Hickman, PC

State Project: R-2707C
WBS Element: 34497.1.2
County: Cleveland
Description: US 74 Shelby Bypass West of NC 226 to West of NC 150

SUBJECT: Parcel #938, Gary Beam Property NC150/NC180
Report on Geophysical Surveys to Locate Possible UST's
Schnabel Engineering Project No. 08210020.01

Dear Mr. Bramblett:

This letter contains our report on the geophysical surveys we conducted on the subject property. We understand this letter report will be included as an appendix in your report to the NCDOT. The report includes two 8.5x11 color figures and two 11x17 color figures.

1.0 INTRODUCTION

Schnabel Engineering conducted geophysical surveys on August 19 and August 21, 2008, in the accessible areas of Parcel 938 (Gary Beam Property) under our 2008 contract with the NCDOT. Parcel 938 is located at the northwest corner of the intersection of NC 150 and NC 180. Site photos of the parcel are shown in Figure 1. The work was conducted at the locations indicated by Hart & Hickman, PC (Hart & Hickman) to support their environmental assessment of the subject parcel. The purpose of the geophysical surveys was to locate possible metal underground storage tanks (UST's) and associated metal product lines in the accessible areas of the site.

2.0 FIELD METHODOLOGY

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system. References to direction and location in this report are based on the US State Plane 1983 system, North Carolina 3200 zone, using the NAD 83 datum, with units in US survey feet. The locations of existing site features (buildings, trailers, signs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings. The geophysical investigation consisted of an electromagnetic (EM) induction survey using a Geonics EM61-MK2 instrument, and a ground-penetrating radar survey using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna. Photographs of the equipment used are shown in Figure 2.

The EM61 data were collected along parallel survey lines spaced about 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 over selected EM61 anomalies and over the planned boring locations. 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 sent to Matt Bramblett and David Graham of Hart & Hickman and Cyrus Parker and Ethan Caldwell of the NCDOT on August 22, 2008.

3.0 DISCUSSION OF RESULTS

The contoured EM61 data are shown on Figures 3 and 4. The EM61 early time gate results are plotted on Figure 3. The early time gate data provide the most sensitive detection of metal object targets, regardless of size. Figure 4 shows 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 early time gate and differential results show several anomalies attributed to known site features, two linear anomalies in response to buried concrete drainage pipes, and several anomalies not attributed to known site features (Figures 3 and 4). The anomalies not attributed to known site features were surveyed with GPR, as shown on Figures 3 and 4. The GPR data did not indicate the presence of possible UST's in the areas of the parcel that were surveyed.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 938 of Project R-2707C in Shelby, NC indicates the following:

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

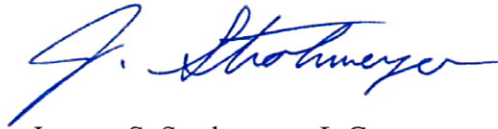
5.0 LIMITATIONS

These services have been performed and this report prepared for Hart & Hickman and the North Carolina Department of Transportation 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,

SCHNABEL ENGINEERING SOUTH, P.C.



Jeremy S. Strohmeyer, L.G.
Project Manager



Edward D. Billington, L.G.
Senior Vice President

JW/JS/NB

Attachment: Figures (4)

FILE: G:\2008 PROJECTS\08210020 (NCDOT 2008 GEOTECH UNIT SERVICES)\08210020.01 (R-2707C, CLEVELAND COUNTY)\REPORT SCHNABEL REPORT ON GEOPHYSICAL SURVEYS OF PARCEL 938.DOC



Parcel 938 – Gary Beam Property, looking northwest



Parcel 938 – Gary Beam Property, looking north



NC Department of Transportation
Geotechnical Engineering Unit

State Project No. R-2707C
Cleveland County, North Carolina

**PARCEL 938
SITE PHOTOS**

FIGURE 1



Geonics EM61-MK2

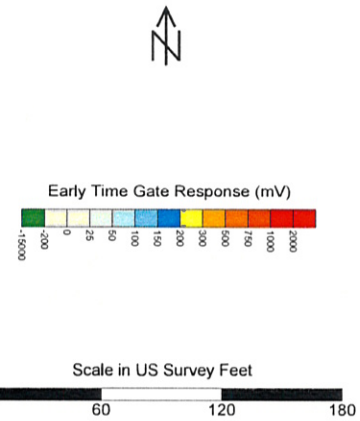
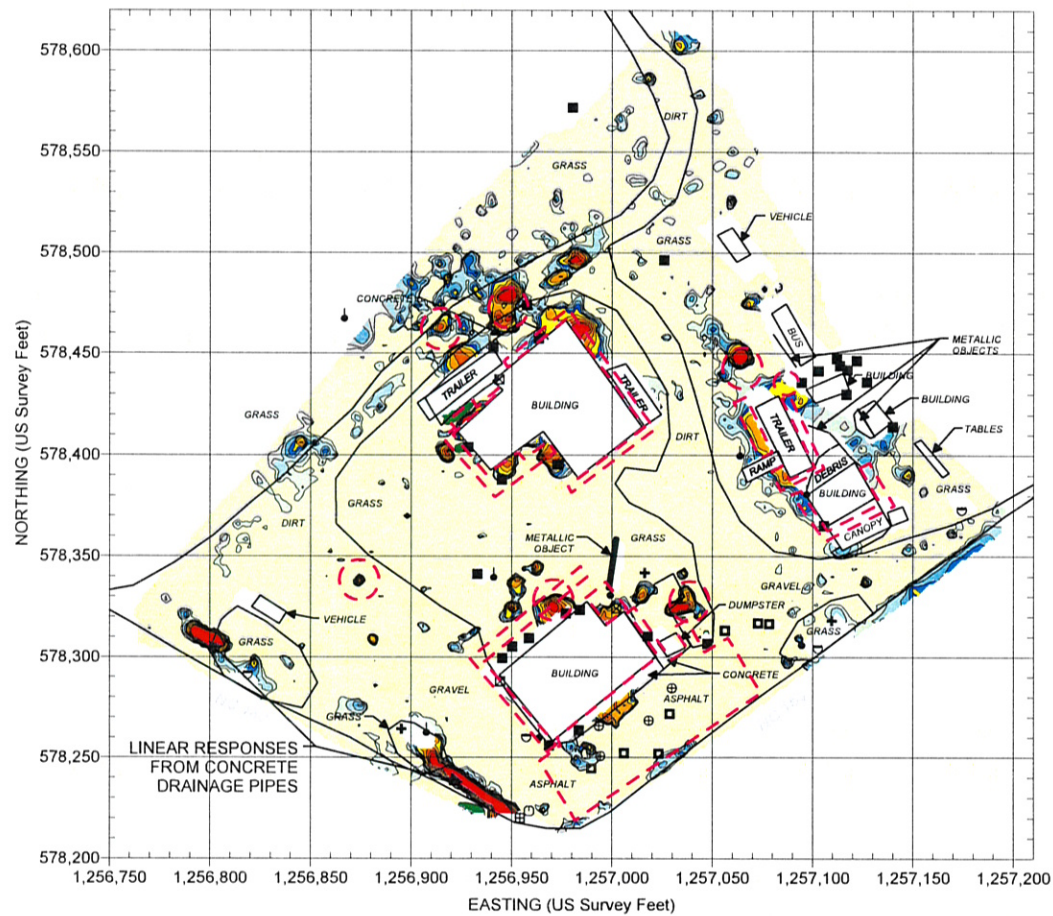


Geophysical Survey Systems SIR-3000 with 400 MHz antenna



NC Department of Transportation
Geotechnical Engineering Unit
State Project No. R-2707C
Cleveland County, North Carolina

**PHOTOS OF
GEOPHYSICAL
EQUIPMENT**
FIGURE 2



| EXPLANATION | |
|-------------|--|
| | EM61 SURVEY AREA - DATA ACQUIRED ALONG PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART |
| | GUY WIRE |
| | SIGN |
| | METALLIC OBJECT |
| | FILLED HOLES |
| | UTILITY POLE |
| | STORMWATER GRATE |
| | UTILITY METER |
| | MONITORING WELL |
| | METAL PLATE (AIR SPARGING SYSTEM) |
| | GPR SURVEY AREA |

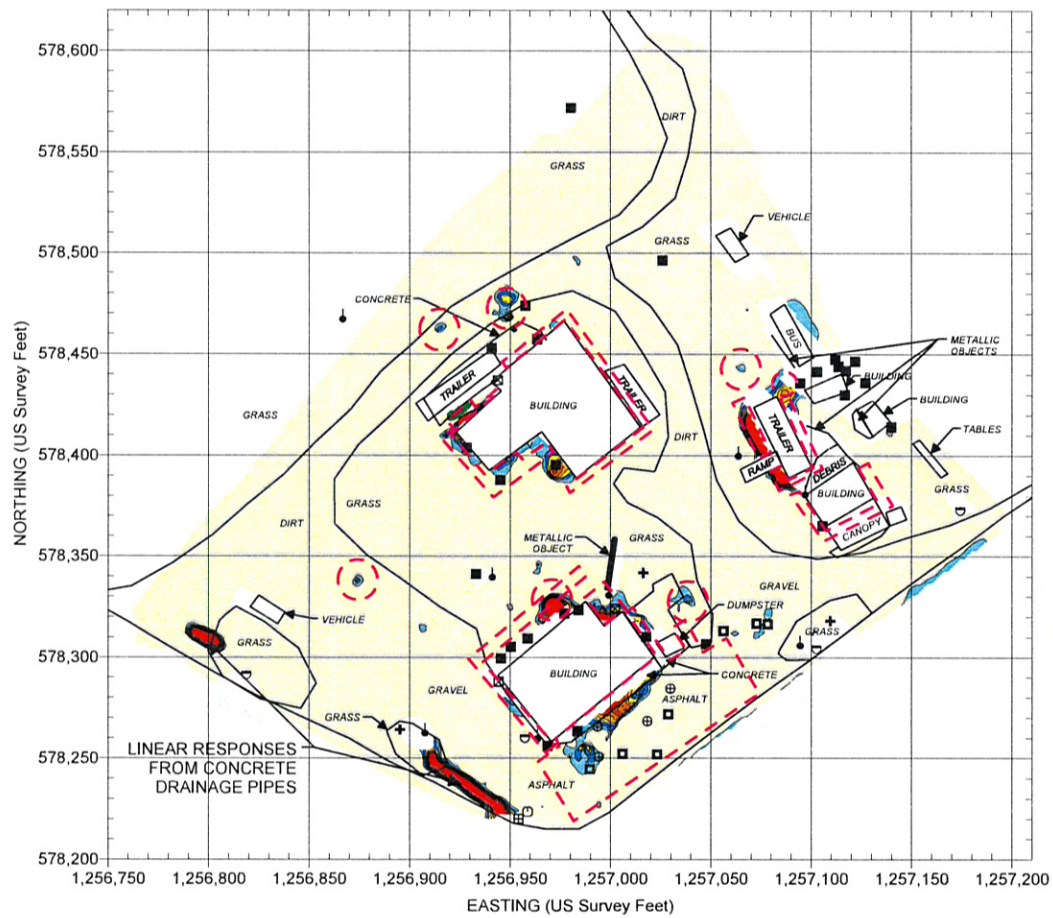
Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on August 19, 2008, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on August 21, 2008, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.



NC Department of Transportation
 Geotechnical Engineering Unit
 State Project No. R-2707C
 Cleveland County, North Carolina

**EM61
 EARLY TIME GATE
 RESPONSE**

FIGURE 3



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 drums and tanks. The EM data were collected on August 19, 2008, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXR5 DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 1983 datum. GPR data were acquired on August 21, 2008, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.



NC Department of Transportation
Geotechnical Engineering Unit
State Project No. R-2707C
Cleveland County, North Carolina

**EM61
DIFFERENTIAL
RESPONSE**

FIGURE 4

Appendix D
Soil Boring Logs



BORING NUMBER 938-1

2923 South Tryon Street-Suite 100
 Charlotte, North Carolina 28203
 704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
 Raleigh, North Carolina 27607
 919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938

JOB NUMBER: ROW-201

LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|--|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Yellow, orange SAND with petroleum odor, Dry | | 0.0 |
| 2.5 | | | 0 | 0 | | | | 2.5 |
| 5.0 | | | 0 | 1260 | | White, yellow silty SAND with petroleum odor, Dry | | 5.0 |
| 7.5 | | | 0 | 690 | | Orange, red sandy CLAY with petroleum odor; decreasing amounts of sand with depth, Dry | | 7.5 |
| 10.0 | | | 0 | 3096 | | | | 10.0 |
| 12.5 | | | 0 | 2083 | | | | 12.5 |
| | | | 0 | 1799 | | Bottom of borehole at 12.0 feet. | | |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Soil sample collected at 6 - 8 ft and submitted for laboratory analysis.



BORING NUMBER 938-2

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938
JOB NUMBER: ROW-201
LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|------------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Pulverized concrete with sand, Dry | | 0.0 |
| 2.5 | | | 0 | 0 | | Red sandy CLAY, Dry | | 2.5 |
| 5.0 | | | 0 | 90.3 | | Red clayey SILT, Dry | | 5.0 |
| 7.5 | | | 0 | 85.9 | | Red silty CLAY, Dry | | 7.5 |
| 10.0 | | | 0 | 48.7 | | Orange silty SAND, Dry | | 10.0 |
| 12.5 | | | 0 | 22.7 | | Bottom of borehole at 12.0 feet. | | 12.5 |
| | | | 0 | 391 | | | | |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil samples were collected at 2-4 ft and 8-10 ft and submitted for laboratory analysis.



BORING NUMBER 938-3

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938
JOB NUMBER: ROW-201
LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|---|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Red CLAY, Dry | | 0.0 |
| 2.5 | | | 0 | 0 | | Red-orange clayey SAND, Dry | | 2.5 |
| 5.0 | | | 0 | 0 | | Yellow-white SAND, Dry | | 5.0 |
| 7.5 | | | 5.2 | 9.8 | | Yellow-orange sandy CLAY, Dry | | 7.5 |
| 10.0 | | | 5.3 | 6.3 | | Orange silty CLAY, Dry | | 10.0 |
| 12.5 | | | 5.2 | 11.6 | | Yellow micaceous clayey SILT with petroleum odor, Dry | | 12.5 |
| | | | 5.4 | 87 | | Bottom of borehole at 12.0 feet. | | |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 6 - 8 ft and submitted for laboratory analysis.



BORING NUMBER 938-4

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938
JOB NUMBER: ROW-201
LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|----------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Red-brown sandy CLAY, Dry | | 0.0 |
| 2.5 | | | 3 | 3 | | Brown clayey SAND, Dry | | 2.5 |
| 5.0 | | | 2 | 2 | | Orange CLAY, Dry | | 5.0 |
| 7.5 | | | 1.7 | 14.1 | | | | 7.5 |
| 10.0 | | | 3 | 57 | | Orange sandy SILT, Dry | | 10.0 |
| 12.5 | | | 3.5 | 29 | | | | 12.5 |
| | | | 4 | 7.8 | | Bottom of borehole at 12.0 feet. | | |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 6 - 8 ft and submitted for laboratory analysis.



BORING NUMBER 938-5

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938
JOB NUMBER: ROW-201
LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|--|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Yellow-orange CLAY with fine sand particles, Dry | | 0.0 |
| 2.5 | | | 0 | 0 | | Yellow clayey SAND, Dry | | 2.5 |
| 5.0 | | | 1.5 | 2 | | Red-orange sandy CLAY, Dry | | 5.0 |
| 7.5 | | | 1.5 | 2.2 | | Orange CLAY, Dry | | 7.5 |
| 10.0 | | | 2 | 3 | | Orange clayey SAND, Dry | | 10.0 |
| 12.5 | | | 2.3 | 4.3 | | Brown clayey SILT, Dry | | 12.5 |
| | | | 2.8 | 4.3 | | Bottom of borehole at 12.0 feet. | | |

LOG OF BORING - HART HICKMAN GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG / METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 8 - 10 ft and submitted for laboratory analysis.



BORING NUMBER 938-6

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938
JOB NUMBER: ROW-201
LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|----------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Red sandy CLAY, Dry | | 0.0 |
| 1.5 | | | 1.5 | 1.6 | | Red-orange clayey SAND, Dry | | 2.5 |
| 1.3 | | | 1.3 | 4.8 | | Orange SAND, Dry | | 5.0 |
| 1.9 | | | 1.9 | 7 | | Brown clayey SAND, Dry | | 7.5 |
| 1.7 | | | 1.7 | 5.4 | | | | 10.0 |
| 2.2 | | | 2.2 | 18.3 | | | | 12.5 |
| 2.3 | | | 2.3 | 806 | | | | 12.5 |
| | | | | | | Bottom of borehole at 12.0 feet. | | |

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 8 - 10 ft and submitted for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ



BORING NUMBER 938-7

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938

JOB NUMBER: ROW-201

LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|------------------------|----------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | | | 0.0 |
| 2.5 | | | 1.3 | 3.5 | Moist brown silty CLAY | | | 2.5 |
| 5.0 | | | 1.5 | 3.9 | Very wet sandy CLAY | | | 5.0 |
| 7.5 | | | 1.5 | 3.3 | White-orange wet SAND | | | 7.5 |
| 10.0 | | | | | | | | 10.0 |
| 12.5 | | | | | | Bottom of borehole at 12.0 feet. | | 12.5 |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Soil sample collected at 4 - 6 ft and submitted for laboratory analysis. No soil was recovered between 2-4 ft and 8-12 ft due perched water.



BORING NUMBER 938-8

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938

JOB NUMBER: ROW-201

LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|----------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Orange clayey SAND, Dry | | 0.0 |
| 2.5 | | | 0.9 | 3.1 | | | | 2.5 |
| 5.0 | | | 1.5 | 20 | | Orange CLAY, Dry | | 5.0 |
| 7.5 | | | 1 | 4.1 | | | | 7.5 |
| 10.0 | | | 1.9 | 353 | | Orange-brown sandy CLAY, Dry | | 10.0 |
| 12.5 | | | 3 | 336 | | Brown-orange clayey SILT, Dry | | 12.5 |
| | | | 5 | 414 | | Bottom of borehole at 12.0 feet. | | |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Soil sample collected at 6 - 8 ft and submitted for laboratory analysis.



BORING NUMBER 938-9

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938

JOB NUMBER: ROW-201

LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|----------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Red CLAY, Dry | | 0.0 |
| 2.5 | | | 1.1 | 4.1 | | Orange clayey SAND, Dry | | 2.5 |
| 5.0 | | | 1.1 | 4.4 | | Red sandy CLAY, Dry | | 5.0 |
| 7.5 | | | 1.1 | 4.8 | | | | 7.5 |
| 10.0 | | | 2.1 | 6.3 | | Tan clayey SAND, Dry | | 10.0 |
| 12.5 | | | 2.1 | 4.5 | | Tan clayey SILT, Dry | | 12.5 |
| 12.5 | | | 2.1 | 5.4 | | Bottom of borehole at 12.0 feet. | | 12.5 |

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Soil sample collected at 6 - 8 ft and submitted for laboratory analysis.

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ



BORING NUMBER 938-10

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938

JOB NUMBER: ROW-201

LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|----------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Orange clayey SAND, Dry | | 0.0 |
| 2.5 | | | 0.6 | 1.2 | | | | 2.5 |
| 5.0 | | | 0.8 | 1.8 | | Orange sandy CLAY, Dry | | 5.0 |
| 7.5 | | | 0.9 | 2 | | | | 7.5 |
| 10.0 | | | 2 | 4.5 | | Brown clayey SILT, Dry | | 10.0 |
| 12.5 | | | 1.6 | 9.3 | | | | 12.5 |
| | | | 1.9 | 6.3 | | Bottom of borehole at 12.0 feet. | | |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected at 6 - 8 ft and submitted for laboratory analysis.



BORING NUMBER 938-11

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938

JOB NUMBER: ROW-201

LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|----------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Orange-tan clayey SAND, wet | | 0.0 |
| 2.5 | | | 1.11 | 1.5 | | | | 2.5 |
| 5.0 | | | 1.1 | 3.9 | | | | 5.0 |
| 7.5 | | | 1 | 4.3 | | Red-tan CLAY, Moist | | 7.5 |
| 10.0 | | | 2 | 4.6 | | | | 10.0 |
| 12.5 | | | 1.9 | 2.7 | | | | 12.5 |
| | | | | | | Bottom of borehole at 12.0 feet. | | |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Soil sample collected at 6 - 8 ft and submitted for laboratory analysis. No soil was recovered at 10 - 12 ft due to perched water.



BORING NUMBER 938-12

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough St.
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Gary Beam Property, Parcel #938

JOB NUMBER: ROW-201

LOCATION: Shelby, North Carolina

| DEPTH (ft) | RECOVERY (%) | BLOW COUNT | OVA (ppm) | | LITHOLOGY | MATERIAL DESCRIPTION | WELL DIAGRAM | DEPTH (ft) |
|------------|--------------|------------|-----------|-------|-----------|----------------------------------|--------------|------------|
| | | | BKG. | SAMP. | | | | |
| 0.0 | | | | | | Tan silty SAND, Dry | | 0.0 |
| 2.5 | | | 0.4 | 3.2 | | | | 2.5 |
| 5.0 | | | 1.1 | 4.1 | | | | 5.0 |
| 7.5 | | | 0.3 | 3.7 | | White, orange silty CLAY, Dry | | 7.5 |
| 10.0 | | | 1 | 4.9 | | | | 10.0 |
| 12.5 | | | 1.2 | 4 | | | | 12.5 |
| 12.5 | | | 1.2 | 2.5 | | Bottom of borehole at 12.0 feet. | | 12.5 |

LOG OF BORING - HART HICKMAN.GDT - 10/17/08 07:32 - S:\AAA-MASTER GINT PROJECTS\ROW-201.GPJ

DRILLING CONTRACTOR: Probe Technologies
DRILL RIG/ METHOD: Geoprobe 66DT / DPT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: HLB
DRAWN BY:

BORING STARTED: 8/27/08
BORING COMPLETED: 8/27/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Soil sample collected at 6 - 8 ft and submitted for laboratory analysis.

Appendix E
Laboratory Analytical Report



Case Narrative

Date: 09/05/08
Company: North Carolina Department of Transportation
Contact: David Graham
Address: c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Client Project ID: ROW-201
Prism COC Group No: G0808732
Collection Date(s): 08/27/08
Lab Submittal Date(s): 08/27/08

Client Project Name Or No: WBS# 34497.1.2

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 15 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

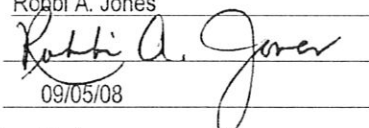
Wet Lab and Micro Analysis

N/A

Please call if you have any questions relating to this analytical report.

Date Reviewed by: Robbi A. Jones

Project Manager: Angela D. Overcash

Signature: 

Signature: 

Review Date: 09/05/08

Approval Date: 09/05/08

Data Qualifiers Key Reference:

- B: Compound also detected in the method blank.
- #: Result outside of the QC limits.
- DO: Compound diluted out.
- E: Estimated concentration, calibration range exceeded.
- J: The analyte was positively identified but the value is estimated below the reporting limit.
- H: Estimated concentration with a high bias.
- L: Estimated concentration with a low bias.
- M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID 938-1 (6-8)
 Prism Sample ID 223440
 COC Group: G0808732
 Time Collected: 08/27/08 10:40
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|--|--------|-------|--------------|--------|-----------------|------------------|--------------------|-----------------------|----------|
| Percent Solids Determination | | | | | | | | | |
| Percent Solids | 82.4 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| Diesel Range Organics (DRO) by GC-FID | | | | | | | | | |
| Diesel Range Organics (DRO) | 240 | mg/kg | 8.5 | 1.4 | 1 | 8015B | 09/02/08 11:28 | jvogel | Q35083 |
| Sample Preparation: | | | | 25 g / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | 83 | 49 - 124 | |
| Sample Weight Determination | | | | | | | | | |
| Weight 1 | 5.57 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 5.45 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Gasoline Range Organics (GRO) by GC-FID | | | | | | | | | |
| Gasoline Range Organics (GRO) | 490 | mg/kg | 12 | 7.6 | 100 | 8015B | 09/02/08 21:31 | dliamm | Q35067 |

Surrogate recovery was outside of the control limits. Matrix interference is suspected.

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
| aaa-TFT | 46 # | 55 - 129 |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID 938-2 (2-4)
 Prism Sample ID 223442
 COC Group: G0808732
 Time Collected: 08/27/08 11:00
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|---|--------|-------|--------------|-----|-----------------|------------------|--------------------|-----------------------|----------|
| <u>Percent Solids Determination</u> | | | | | | | | | |
| Percent Solids | 86.2 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| <u>Diesel Range Organics (DRO) by GC-FID</u> | | | | | | | | | |
| Diesel Range Organics (DRO) | 130 | mg/kg | 8.1 | 1.3 | 1 | 8015B | 09/02/08 12:03 | jvogel | Q35083 |
| Sample Preparation: | | | 25.01 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | 91 | 49 - 124 | |
| <u>Sample Weight Determination</u> | | | | | | | | | |
| Weight 1 | 5.29 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 6.23 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| <u>Gasoline Range Organics (GRO) by GC-FID</u> | | | | | | | | | |
| Gasoline Range Organics (GRO) | 10 | mg/kg | 5.8 | 3.6 | 50 | 8015B | 09/02/08 15:12 | dliamm | Q35067 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | aaa-TFT | 104 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID: 938-2 (8-10)
 Prism Sample ID: 223443
 COC Group: G0808732
 Time Collected: 08/27/08 15:40
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|--|--------|-------|--------------|-----|------------------|-------------------|-----------------------|---------|----------|
| Percent Solids Determination | | | | | | | | | |
| Percent Solids | 87.9 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| Diesel Range Organics (DRO) by GC-FID | | | | | | | | | |
| Diesel Range Organics (DRO) | 28 | mg/kg | 7.9 | 1.3 | 1 | 8015B | 09/02/08 12:39 | joygel | Q35083 |
| Sample Preparation: | | | 25.14 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | Surrogate | % Recovery | Control Limits | | |
| | | | | | o-Terphenyl | 81 | 49 - 124 | | |
| Sample Weight Determination | | | | | | | | | |
| Weight 1 | 5.57 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 5.73 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Gasoline Range Organics (GRO) by GC-FID | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 5.7 | 3.6 | 50 | 8015B | 09/02/08 15:44 | dliamm | Q35067 |

Surrogate recovery was outside the control limits. No target compounds were detected in this sample. No further action was taken.

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
| aaa-TFT | 146 # | 55 - 129 |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID: 938-3 (6-8)
 Prism Sample ID: 223444
 COC Group: G0808732
 Time Collected: 08/27/08 11:30
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|--|--------|-------|--------------|-----|-----------------|------------------|--------------------|-----------------------|----------|
| Percent Solids Determination | | | | | | | | | |
| Percent Solids | 84.5 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| Diesel Range Organics (DRO) by GC-FID | | | | | | | | | |
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.2 | 1.3 | 1 | 8015B | 09/02/08 13:15 | jvogel | Q35083 |
| Sample Preparation: | | | 25.16 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | 76 | 49 - 124 | |
| Sample Weight Determination | | | | | | | | | |
| Weight 1 | 5.45 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 5.81 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Gasoline Range Organics (GRO) by GC-FID | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 5.9 | 3.7 | 50 | 8015B | 09/02/08 16:16 | dliamm | Q35067 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | aaa-TFT | 113 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit
 Values are reported down to the reporting limits only. No J-flags applied.
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID 938-4 (6-8)
 Prism Sample ID 223445
 COC Group: G0808732
 Time Collected: 08/27/08 11:45
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|---|--------|-------|--------------|-----|------------------|----------|--------------------|-----------------------|----------|
| <u>Percent Solids Determination</u> | | | | | | | | | |
| Percent Solids | 79.4 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| <u>Diesel Range Organics (DRO) by GC-FID</u> | | | | | | | | | |
| Diesel Range Organics (DRO) | 11 | mg/kg | 8.8 | 1.4 | 1 | 8015B | 09/02/08 13:50 | jvogel | Q35083 |
| Sample Preparation: | | | 25.08 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | Surrogate | | % Recovery | Control Limits | |
| | | | | | o-Terphenyl | | 68 | 49 - 124 | |
| <u>Sample Weight Determination</u> | | | | | | | | | |
| Weight 1 | 5.12 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 5.04 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| <u>Gasoline Range Organics (GRO) by GC-FID</u> | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.3 | 3.9 | 50 | 8015B | 09/02/08 16:47 | dliamm | Q35067 |
| | | | | | Surrogate | | % Recovery | Control Limits | |
| | | | | | aaa-TFT | | 83 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID 938-5 (8-10)
 Prism Sample ID 223446
 COC Group: G0808732
 Time Collected: 08/27/08 12:00
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|---|--------|-------|--------------|-----|-----------------|------------------|--------------------|-----------------------|----------|
| <u>Percent Solids Determination</u> | | | | | | | | | |
| Percent Solids | 80.6 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| <u>Diesel Range Organics (DRO) by GC-FID</u> | | | | | | | | | |
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.7 | 1.4 | 1 | 8015B | 09/02/08 14:26 | jvogel | Q35083 |
| Sample Preparation: | | | 25.02 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | 82 | 49 - 124 | |
| <u>Sample Weight Determination</u> | | | | | | | | | |
| Weight 1 | 5.08 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 5.25 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| <u>Gasoline Range Organics (GRO) by GC-FID</u> | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.2 | 3.9 | 50 | 8015B | 09/02/08 17:19 | dliamm | Q35067 |

Surrogate recovery was outside the control limits. No target compounds were detected in this sample. No further action was taken.

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
| aaa-TFT | 142 # | 55 - 129 |

Sample Comment(s):

BRL = Below Reporting Limit
 Values are reported down to the reporting limits only. No J-flags applied.
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID: 938-7 (4-6)
 Prism Sample ID: 223448
 COC Group: G0808732
 Time Collected: 08/27/08 13:30
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|--|--------|-------|------------------|-----|-----------------|----------|--------------------|-----------------------|----------|
| Percent Solids Determination | | | | | | | | | |
| Percent Solids | 84.6 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| Diesel Range Organics (DRO) by GC-FID | | | | | | | | | |
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.2 | 1.3 | 1 | 8015B | 09/02/08 15:38 | jvogel | Q35083 |
| Sample Preparation: | | | 25.28 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | Surrogate | | | | % Recovery | Control Limits | |
| | | | o-Terphenyl | | | | 78 | 49 - 124 | |
| Sample Weight Determination | | | | | | | | | |
| Weight 1 | 6.70 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 6.20 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Gasoline Range Organics (GRO) by GC-FID | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 5.9 | 3.7 | 50 | 8015B | 09/02/08 18:22 | dliamm | Q35067 |
| | | | Surrogate | | | | % Recovery | Control Limits | |
| | | | aaa-TFT | | | | 117 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID 938-8 (6-8)
 Prism Sample ID 223449
 COC Group: G0808732
 Time Collected: 08/27/08 13:50
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|---|--------|-------|--------------|-----|-----------------|------------------|--------------------|-----------------------|----------|
| <u>Percent Solids Determination</u> | | | | | | | | | |
| Percent Solids | 78.9 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| <u>Diesel Range Organics (DRO) by GC-FID</u> | | | | | | | | | |
| Diesel Range Organics (DRO) | 990 | mg/kg | 89 | 14 | 10 | 8015B | 09/03/08 11:19 | jvogel | Q35083 |
| Sample Preparation: | | | 25.24 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | DO # | 49 - 124 | |
| <u>Sample Weight Determination</u> | | | | | | | | | |
| Weight 1 | 5.44 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 5.39 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| <u>Gasoline Range Organics (GRO) by GC-FID</u> | | | | | | | | | |
| Gasoline Range Organics (GRO) | 140 | mg/kg | 13 | 7.9 | 100 | 8015B | 09/02/08 22:03 | dliamm | Q35067 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | aaa-TFT | 86 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID: 938-9 (6-8)
 Prism Sample ID: 223450
 COC Group: G0808732
 Time Collected: 08/27/08 14:15
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|--|--------|-------|--------------|-----|-----------------|------------------|--------------------|-----------------------|----------|
| Percent Solids Determination | | | | | | | | | |
| Percent Solids | 86.0 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| Diesel Range Organics (DRO) by GC-FID | | | | | | | | | |
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.1 | 1.3 | 1 | 8015B | 09/02/08 16:50 | jvogel | Q35083 |
| Sample Preparation: | | | 25.01 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | 67 | 49 - 124 | |
| Sample Weight Determination | | | | | | | | | |
| Weight 1 | 6.04 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 5.90 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Gasoline Range Organics (GRO) by GC-FID | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 5.8 | 3.6 | 50 | 8015B | 09/02/08 18:54 | dliamm | Q35067 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | aaa-TFT | 85 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID 938-10 (6-8)
 Prism Sample ID 223451
 COC Group: G0808732
 Time Collected: 08/27/08 14:45
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|---|--------|-------|--------------|-----|-----------------|------------------|--------------------|-----------------------|----------|
| <u>Percent Solids Determination</u> | | | | | | | | | |
| Percent Solids | 81.4 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| <u>Diesel Range Organics (DRO) by GC-FID</u> | | | | | | | | | |
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.5 | 1.4 | 1 | 8015B | 09/02/08 17:26 | jvoegel | Q35083 |
| Sample Preparation: | | | 25.33 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | 66 | 49 - 124 | |
| <u>Sample Weight Determination</u> | | | | | | | | | |
| Weight 1 | 6.04 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 6.10 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| <u>Gasoline Range Organics (GRO) by GC-FID</u> | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.1 | 3.8 | 50 | 8015B | 09/02/08 19:25 | lbrown | Q35067 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | aaa-TFT | 88 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

Client Sample ID 938-11 (6-8)
 Prism Sample ID 223452
 COC Group: G0808732
 Time Collected: 08/27/08 15:00
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|---|--------|-------|--------------|-----|-----------------|------------------|--------------------|-----------------------|----------|
| <u>Percent Solids Determination</u> | | | | | | | | | |
| Percent Solids | 81.7 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| <u>Diesel Range Organics (DRO) by GC-FID</u> | | | | | | | | | |
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.5 | 1.4 | 1 | 8015B | 09/02/08 18:01 | jvogel | Q35083 |
| Sample Preparation: | | | 25.15 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | 61 | 49 - 124 | |
| <u>Sample Weight Determination</u> | | | | | | | | | |
| Weight 1 | 6.21 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 6.25 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| <u>Gasoline Range Organics (GRO) by GC-FID</u> | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.1 | 3.8 | 50 | 8015B | 09/02/08 19:57 | dliamm | Q35067 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | aaa-TFT | 112 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

09/05/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-201
 Project No.: WBS# 34497.1.2
 Sample Matrix: Soil

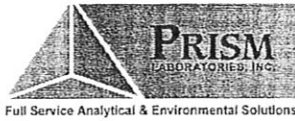
Client Sample ID: 938-12 (6-8)
 Prism Sample ID: 223453
 COC Group: G0808732
 Time Collected: 08/27/08 15:30
 Time Submitted: 08/27/08 16:45

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|---|--------|-------|--------------|-----|-----------------|------------------|--------------------|-----------------------|----------|
| <u>Percent Solids Determination</u> | | | | | | | | | |
| Percent Solids | 81.2 | % | | | 1 | SM2540 G | 09/02/08 15:00 | mbarber | |
| <u>Diesel Range Organics (DRO) by GC-FID</u> | | | | | | | | | |
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.6 | 1.4 | 1 | 8015B | 09/02/08 18:37 | jvogel | Q35083 |
| Sample Preparation: | | | 25.1 g | / | 1 mL | 3545 | 08/29/08 10:00 | pbarr | P22444 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | o-Terphenyl | 82 | 49 - 124 | |
| <u>Sample Weight Determination</u> | | | | | | | | | |
| Weight 1 | 6.25 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| Weight 2 | 5.94 | g | | | 1 | GRO | 09/02/08 0:00 | lbrown | |
| <u>Gasoline Range Organics (GRO) by GC-FID</u> | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.2 | 3.9 | 50 | 8015B | 09/02/08 20:28 | dliamm | Q35067 |
| | | | | | | Surrogate | % Recovery | Control Limits | |
| | | | | | | aaa-TFT | 85 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit
 Values are reported down to the reporting limits only. No J-flags applied.
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Level II QC Report

9/5/2008

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-201
 Project No.: WBS# 34497.1.2

COC Group Number: G0808732
 Date/Time Submitted: 8/27/200 16:45

Gasoline Range Organics (GRO) by GC-FID, method 8015B

| Method Blank | | | | | | | | | |
|--------------------------------------|--------|--------------|---------------|-------|------------|-------------------|-------|-------------|-------------|
| | Result | RL | Control Limit | Units | | | | | QC Batch ID |
| Gasoline Range Organics (GRO) | ND | 5 | <2.5 | mg/kg | | | | | Q35067 |
| Laboratory Control Sample | | | | | | | | | |
| | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | | QC Batch ID |
| Gasoline Range Organics (GRO) | 44.9 | 50 | | mg/kg | 90 | 67-116 | | | Q35067 |
| Matrix Spike | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | | QC Batch ID |
| 223442 Gasoline Range Organics (GRO) | 51.4 | 50 | | mg/kg | 85 | 57-113 | | | Q35067 |
| Matrix Spike Duplicate | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
| 223442 Gasoline Range Organics (GRO) | 48.2 | 50 | | mg/kg | 79 | 57-113 | 6 | 0 - 23 | Q35067 |

Diesel Range Organics (DRO) by GC-FID, method 8015B

| Method Blank | | | | | | | | | |
|------------------------------------|--------|--------------|---------------|-------|------------|-------------------|-------|-------------|-------------|
| | Result | RL | Control Limit | Units | | | | | QC Batch ID |
| Diesel Range Organics (DRO) | ND | 7 | <3.5 | mg/kg | | | | | Q35083 |
| Laboratory Control Sample | | | | | | | | | |
| | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | | QC Batch ID |
| Diesel Range Organics (DRO) | 74.3 | 80 | | mg/kg | 93 | 55-109 | | | Q35083 |
| Matrix Spike | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | | QC Batch ID |
| 223319 Diesel Range Organics (DRO) | 65.7 | 80 | | mg/kg | 82 | 50-117 | | | Q35083 |
| Matrix Spike Duplicate | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
| 223319 Diesel Range Organics (DRO) | 68.2 | 80 | | mg/kg | 85 | 50-117 | 4 | 0 - 24 | Q35083 |

#-See Case Narrative



Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: Hurt, Hickman

Report To/Contact Name: D. Graham

Reporting Address: 2923 S. Tilton St
CLT, NC 28203

Phone: 586-007 Fax (Yes) (No): _____

Email (Yes) (No) Email Address _____

EDD Type: PDF Excel Other

Site Location Name: Shelby, NC

Site Location Physical Address: NC 150 : NC 180

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Row-201

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: See above

Address: _____

Purchase Order No./Billing Reference _____

Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days

"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved

Samples received after 15:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

| LAB USE ONLY | | | |
|--------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| | YES | NO | N/A |
| Samples INTACT upon arrival? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Received ON WET ICE? Temp <u>5.4</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| PROPER PRESERVATIVES indicated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Received WITHIN HOLDING TIMES? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CUSTODY SEALS INTACT? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| VOLATILES rec'd W/OUT HEADSPACE? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| PROPER CONTAINERS used? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC _____ USACE _____ FL _____ NC to

SC _____ OTHER _____ N/A _____

Water Chlorinated: YES _____ NO to

Sample Iced Upon Collection: YES to NO _____

| CLIENT SAMPLE DESCRIPTION | DATE COLLECTED | TIME COLLECTED MILITARY HOURS | MATRIX (SOIL, WATER OR SLUDGE) | SAMPLE CONTAINER | | | PRESERVATIVES | ANALYSES REQUESTED | | | | | REMARKS | PRISM LAB ID NO. | |
|---------------------------|----------------|-------------------------------|--------------------------------|------------------|-----|------|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-----|----|---------|------------------|--------|
| | | | | *TYPE SEE BELOW | NO. | SIZE | | TPH | DRO | TPH | SRP | PH | | | 2,4,6 |
| 938-1 (6-8) | 8/27 | 1040 | SL | | 4 | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | 223440 |
| 938-1 (8-10) | | 1545 | | | | | | | | | | | | | 223441 |
| 938-2 (2-4) | | 1100 | | | | | | | | | | | | | 223442 |
| 938-2 (8-10) | | 1540 | | | | | | | | | | | | | 223443 |
| 938-3 (6-8) | | 1130 | | | | | | | | | | | | | 223444 |
| 938-4 (6-8) | | 1145 | | | | | | | | | | | | | 223445 |
| 938-5 (8-10) | | 1200 | | | | | | | | | | | | | 223446 |
| 938-6 (8-10) | | 1230 | | | | | | | | | | | | | 223447 |
| 938-7 (4-6) | | 1330 | | | | | | | | | | | | | 223448 |
| 938-8 (6-8) | | 1350 | | | | | | | | | | | | | 223449 |

Sampler's Signature: B. O'Donnell Sampled By (Print Name): [Signature] Affiliation: MFM

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

| | | | |
|---|--|---------------------|-----------------------------|
| Relinquished By: (Signature) <u>[Signature]</u> | Received By: (Signature) _____ | Date _____ | Military/Hours _____ |
| Relinquished By: (Signature) _____ | Received By: (Signature) _____ | Date _____ | Military/Hours _____ |
| Relinquished By: (Signature) _____ | Received For Prism Laboratories By: <u>[Signature]</u> | Date <u>8-27-08</u> | Military/Hours <u>16:45</u> |

Additional Comments:

| |
|----------------------|
| Site Arrival Time: |
| Site Departure Time: |
| Field Tech Fee: |
| Mileage: |

Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other _____
 NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
 COC Group No. G0808732

NPDES: NC SC UST: NC SC GROUNDWATER: NC SC DRINKING WATER: NC SC SOLID WASTE: NC SC RCRA: NC SC CERCLA: NC SC LANDFILL: NC SC OTHER: NC SC

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

PRISM USE ONLY

| |
|----------------------|
| Site Arrival Time: |
| Site Departure Time: |
| Field Tech Fee: |
| Mileage: |

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: Hart, H. Chapman
 Report To/Contact Name: D. Graham
 Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
 Email (Yes) (No) Email Address: _____
 EDD Type: PDF Excel Other
 Site Location Name: Shelby, NC
 Site Location Physical Address: NC 150 ; NC 180

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Row-201
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
 Invoice To: _____
 Address: _____

| LAB USE ONLY | | | |
|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| | YES | NO | N/A |
| Samples INTACT upon arrival? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Received ON WET ICE? Temp <u>54</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| PROPER PRESERVATIVES indicated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Received WITHIN HOLDING TIMES? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CUSTODY SEALS INTACT? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| VOLATILES rec'd W/OUT HEADSPACE? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| PROPER CONTAINERS used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Purchase Order No./Billing Reference _____
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC _____ USACE _____ FL _____ NC _____
 SC _____ OTHER _____ N/A _____
 Water Chlorinated: YES _____ NO _____
 Sample Iced Upon Collection: YES _____ NO _____

| CLIENT SAMPLE DESCRIPTION | DATE COLLECTED | TIME COLLECTED MILITARY HOURS | MATRIX (SOIL, WATER OR SLUDGE) | SAMPLE CONTAINER | | | PRESERVATIVES | ANALYSES REQUESTED | | | | REMARKS | PRISM LAB ID NO. |
|---------------------------|----------------|-------------------------------|--------------------------------|------------------|-----|------|---------------|-------------------------------------|-------------------------------------|-------------------------------------|--|---------|------------------|
| | | | | *TYPE SEE BELOW | NO. | SIZE | | DRO | H ₂ O | 20 mL/25 | | | |
| 938-9(6-8) | 8/27 | 1415 | SL | | 4 | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | 223450 |
| 938-10(6-8) | ↓ | 1445 | ↓ | | ↓ | | | ↓ | ↓ | ↓ | | | 223451 |
| 938-11(6-8) | ↓ | 1500 | ↓ | | ↓ | | | ↓ | ↓ | ↓ | | | 223452 |
| 938-12(6-8) | ↓ | 1530 | ↓ | | ↓ | | | | | | | | 223453 |

Sampler's Signature: [Signature] Sampled By (Print Name): B O'Donnell Affiliation: H/M

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

| | | | |
|---|--|---------------------|-----------------------------|
| Relinquished By: (Signature) <u>[Signature]</u> | Received By: (Signature) _____ | Date _____ | Military/Hours _____ |
| Relinquished By: (Signature) _____ | Received By: (Signature) _____ | Date _____ | Military/Hours _____ |
| Relinquished By: (Signature) _____ | Received For Prism Laboratories By: <u>[Signature]</u> | Date <u>8-27-08</u> | Military/Hours <u>16:45</u> |

Additional Comments:

PRISM USE ONLY

Site Arrival Time: _____
 Site Departure Time: _____
 Field Tech Fee: _____
 Mileage: _____

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
 Fed Ex UPS Hand-delivered Prism Field Service Other _____
 COC Group No. G0828732

| | | | | | | | | |
|--|--|--|---|--|---|---|---|--|
| NPDES: <input type="checkbox"/> NC <input type="checkbox"/> SC | UST: <input type="checkbox"/> NC <input type="checkbox"/> SC | GROUNDWATER: <input type="checkbox"/> NC <input type="checkbox"/> SC | DRINKING WATER: <input type="checkbox"/> NC <input type="checkbox"/> SC | SOLID WASTE: <input type="checkbox"/> NC <input type="checkbox"/> SC | RCRA: <input type="checkbox"/> NC <input type="checkbox"/> SC | CERCLA: <input type="checkbox"/> NC <input type="checkbox"/> SC | LANDFILL: <input type="checkbox"/> NC <input type="checkbox"/> SC | OTHER: <input type="checkbox"/> NC <input type="checkbox"/> SC |
|--|--|--|---|--|---|---|---|--|

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TI = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL