

**PRELIMINARY SITE ASSESSMENT
FOR
PARCEL #004, LEIBURN R. STRICKLAND PROPERTY
STATE PROJECT: R-2303B
WBS ELEMENT: 34416.1.1
NC 24 FROM SR 1853 (JOHN NUNNERY RD.) IN CUMBERLAND
COUNTY TO SR 1404 (DOWDY RD.) IN SAMPSON COUNTY**

PREPARED FOR:



**NCDOT GEOTECHNICAL ENGINEERING UNIT
GEOENVIRONMENTAL SECTION
1589 MSC
RALEIGH, NORTH CAROLINA 27699-1589**

JULY 26, 2011

PREPARED BY:

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CATLIN PROJECT NO. 211043

**CORPORATE GEOLOGY LICENSE CERTIFICATION NO. C-118
CORPORATE LICENSURE NO. FOR ENGINEERING SERVICES C-0585**

TABLE OF CONTENTS

	<u>Page</u>
1.0 PURPOSE OF INVESTIGATION AND DESCRIPTION	1
2.0 METHODS	2
2.1 FIELD METHODS	3
2.2 LABORATORY TESTING	4
3.0 RESULTS	4
4.0 SUMMARY AND RECOMMENDATIONS	6
5.0 LIMITATIONS	7
6.0 SIGNATURES	8

TABLES

TABLE 1	SUMMARY OF SOIL LABORATORY RESULTS – EPA METHOD 8015 – PARCEL #004, LEIBURN R. STRICKLAND PROPERTY
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FIGURES

FIGURE 1	GENERAL LOCATION
FIGURE 2	PARCEL #004, LEIBURN R. STRICKLAND PROPERTY

APPENDICES

APPENDIX A	BORING LOGS
APPENDIX B	LABORATORY REPORT AND CHAIN OF CUSTODY RECORD
APPENDIX C	SCHNABEL GEOPHYSICAL REPORT
APPENDIX D	NCDENR UST FILE REVIEW INFORMATION

**Preliminary Site Assessment
for
Parcel #004, Leiburn R. Strickland Property**

**State Project: R-2303B
WBS Element: 34416.1.1
NC 24 from SR 1853 (John Nunnery Rd.) in Cumberland County
to SR 1404 (Dowdy Rd.) in Sampson County**

July 26, 2011

1.0 PURPOSE OF INVESTIGATION AND DESCRIPTION

CATLIN Engineers and Scientists (CATLIN) were retained by the North Carolina Department of Transportation (NCDOT) Geotechnical Engineering Unit to provide a field investigation concluding with a Preliminary Site Assessment (PSA) for the above referenced property. In response to a Request for Technical and Cost Proposal (RFP) dated May 10, 2011 and discussions with NCDOT GeoEnvironmental Project Manager Mr. Terry Fox, LG, CATLIN submitted a proposal for conducting an investigation at five (5) parcels near Stedman and Autryville, North Carolina. Notice to Proceed was received from NCDOT in correspondence dated May 27, 2011.

Acquisition of the right-of-way is necessary for NC 24 roadway construction (above referenced State Project R-2303B) and specifically at the above referenced parcel. A site investigation is necessary to determine the presence of underground storage tanks (USTs) and/or contaminated soil in the proposed right-of-way and/or easement. Figure 1 illustrates the State Project location.

This report documents our activities and findings at Parcel #004 Leiburn R. Strickland Property. The site is illustrated on Figure 2. The following specific parcel information was provided by NCDOT:

Parcel #004 Harold R. Draughon Property

Plan Sheet 05
Strickland Marathon
9007 Clinton Rd.
Stedman, NC 28391

Property Owner:
Strickland, Leiburn R.
2354 Cedar Creek Rd.
Fayetteville, NC 28312

Parcel #004 Harold R. Draughon Property (continued)

Facility ID #: 0-036802

Groundwater Incident: 29271

UST Owner:

Stricklands Inc.
2354 Cedar Creek Rd.
Fayetteville, NC 28312

Responsible Party:

Cary Oil Company
PO Box 5189
Cary, NC 27511

Currently this site operates as a gas station. The site is located on the north side of NC 24 (Clinton Rd.) at its intersection with John Nunnery Rd. There are two (2) USTs currently in operation. Several monitoring wells were observed on site. The site is illustrated on Figure 2.

The work scope as requested includes:

- Locate all USTs and determine approximate size and contents (if any).
- Determine if contaminated soils are present.
- If contamination is evident, estimate the quantity of impacted soils and indicate the approximate area of soil contamination on a site map.
- Provide a Microstation file with the location of USTs, soil contamination and monitoring wells.
- Prepare a report including field activities, findings, and recommendations for each site in triplicate and electronically to the NCDOT GeoEnvironmental Section.

In addition to the RFP, NCDOT provided plan sheets associated with the roadway construction. CATLIN and NCDOT personnel agreed to approximate proposed boring and sample locations (10 within the right-of-way and/or easement for soil sample collection and total petroleum hydrocarbons (TPH) diesel and gasoline range organics (DRO and GRO) laboratory analysis.

2.0 METHODS

Approximate proposed borings were discussed with NCDOT personnel before final Workplan submittal. Per NCDOT request, borings (soil samples) were located near known or suspect UST systems and proposed drainage features (as indicated on NCDOT provided plan sheets). A NCDENR UST file review was conducted at the NCDENR Fayetteville Regional Office.

CATLIN coordinated geophysical activities concurrently with soil boring and sampling. The geophysical investigation methods are detailed in the Schnable Engineering report provided in Appendix C. Final boring/sample

locations were determined based on proposed drainage feature locations, geophysical results, and field observations. CATLIN's field activities concluded on June 24, 2011.

2.1 FIELD METHODS

All field work was conducted in general accordance with state and federal guidelines and industry standards.

Underground utility locating was coordinated by CATLIN personnel. The North Carolina One Call Center (NC-1-Call) was contacted for underground utility location. Proposed boring locations were marked before NC-1-Call personnel were on-site. The areas around the proposed boring locations were checked and found to be clear of any underground utilities or alternate locations were indicated by NC-1-Call personnel.

CATLIN personnel gathered subsurface soil data at the site by Direct Push Technology (DPT) boring advancement using an AMS PowerProbe™ 9600D (PowerProbe). The borings were advanced to depth by static force and a 90-pound hydraulic percussion hammer. Two and one-quarter inch diameter by four-foot length steel is used as casing. Soil samples were continuously collected in four-foot long and one and one-half inch diameter clear liners. Liners are removed from the casing and then cut in half longitudinally to allow for visual/manual classification utilizing the Unified Soil Classification System (USCS).

Borings were identified by the parcel number (as indicated by NCDOT) followed by "DPT" and consecutive numbers starting with "01" at each parcel (example: 4-DPT-01). Soil samples were collected continuously from near the surface to boring termination. Soils were removed from the liners in two-foot intervals and placed in sealable polyethylene bags for organic vapor analysis (OVA) headspace screening utilizing a photo ionization detector (PID). The USCS, OVA/PID reading, and any indication of petroleum impact were recorded on field logs and have been transferred to the Boring Logs provided in Appendix A.

Soil samples were collected for laboratory analysis above the water table using roughly a one-foot interval of the two-foot sample revealing the highest OVA/PID reading. Sample identification was based on the boring identification followed by sample depth (in feet) below land surface (BLS) in parentheses [example: 4-DPT-01 (2-3')]. In some cases of elevated OVA/PID readings, additional borings were advanced for soil sample collection in an attempt to delineate suspected soil contamination.

Due to unknown locations of private utilities in the area of the orphan UST, a post-hole digger was utilized to collect a soil sample (4-DPT-13 (3-5')).

New disposable nitrile gloves were worn during sampling activities. All samples were placed into laboratory provided glassware and packed on ice in an insulated cooler for transportation to the laboratory. Sample integrity was maintained by following proper Chain of Custody procedures. A copy of the Chain of Custody is provided following the analytical report in Appendix B.

Boreholes were abandoned to just below the surface using three-eighth inch bentonite chips. Bentonite and water were poured into the borehole simultaneously to facilitate hydration. Borings located in asphalt or gravel were topped with asphalt cold patch. Final borehole and sample locations were surveyed utilizing a Trimble® GPS survey instrument.

Thirteen (13) borings were advanced for soil sample collection and one sample was collected from each boring for laboratory analysis. Borings were advanced near the suspected UST, dispenser, and near the proposed drainage features across the property and northern portion of the property. Boring/sample locations are illustrated on Figure 2. Boring and sample collection was limited around the probable UST locations due to the presence private utilities not marked by the NC-One-Call service. Utilities and the proximity of John Nunnery Road limited boring and sampling to the west.

2.2 LABORATORY TESTING

Following boring advancement, selected soils were placed in the appropriately labeled glassware. In an attempt to provide information regarding petroleum impact to soils and groundwater with reasonable analytical expense, soil samples were analyzed for TPH DRO and GRO by Environmental Protection Agency (EPA) Methods 5030 and 3550 with analysis by modified 8015.

A total of 13 soil samples were submitted to SGS North America Inc. (NC Certification # 481). Chain of Custody documentation is included in Appendix B.

3.0 RESULTS

In the event a cut is required for roadway construction or utility installation, any soil samples revealing detectable TPH concentrations will be considered

petroleum impacted for handling and disposal purposes. The complete laboratory analytical reports are provided in Appendix B. Results of Schnabel's geophysical investigation including site photographs were submitted directly to NCDOT and a copy is provided in Appendix C. Schnabel's investigation results will be generally discussed in the following section. Copies of select documents from the NCDENR UST file review are provided in Appendix D.

The geophysical data indicated the presence of two (2) known (and active) USTs and two probable USTs. The western known UST is about 4,000-gallon capacity and is buried about 3.0 to 4.0 feet BLS. The eastern known UST is about 10,000-gallon capacity and is buried about 3.0 to 4.0 feet BLS. The southern probable UST is about 560-gallon capacity and is buried 1.5 to 2.5 feet BLS. The northern probable UST is about 1,500-gallon capacity and is buried 1.5 to 2.5 feet BLS. No other geophysical anomalies indicative of a potential UST were revealed. The UST locations and active dispenser canopy location are illustrated on Figure 2. Photographs of the site including the known UST locations are included in the geophysical report provided in Appendix C. Numerous monitoring wells were identified on site and the locations are illustrated on Figure 2 and figures provided in Appendix D.

According to information on file with NCDENR, the two (2) known USTs were installed in 2006 following removal of previous USTs. Soil and groundwater contamination were revealed during UST closure/removal activities and assessment/monitoring activities are on-going at the site. Historical water table information indicated a depth to water of approximately six (6) feet BLS. Nine (9) monitoring wells are illustrated on figures provided in Appendix D and were identified in the field.

Based on review of the dissolved contaminant isoconcentration plume figures provided in Appendix D, the highest groundwater contaminant concentrations are near the active dispenser canopy. A groundwater contour flow map indicates groundwater flow to the north (see Appendix D).

Borings 4-DPT-01 and 4-DPT-02 were terminated at eight (8) feet BLS. Depth to water was measured at approximately seven (7) feet BLS in borings 4-DPT-01 and 4-DPT-02. Borings 4-DPT-03 through 4-DPT-12 were terminated at four (4) feet BLS. The post-hole boring 4-DPT-13 was terminated at 3.5 feet BLS. Predominately sands were encountered with some mix of clays and silts. Damp to saturated soils were encountered in borings 4-DPT-01 and 4-DPT-02 at six (6) feet BLS. Soil samples were collected for laboratory analysis from within the two (2) foot interval with the highest OVA/PID reading. No physical indications (petroleum odor or staining) of petroleum impacted soils were noted in the field. Boring logs including USCS classification and OVA/PID screening results are provided in

Appendix A. Summarized analytical results are provided on Table 1 and Figure 2.

No TPH GRO concentrations were detected above the laboratory reporting limit in any of the soil samples. The soil samples collected from borings near the current USTs (4-DPT-02, 4-DPT-03, and 4-DPT-13) and the dispenser island (4-DPT-08) revealed minor TPH DRO concentrations [less than 9 milligrams per kilogram (mg/kg)]. No TPH concentrations were detected in the soil samples collected along the proposed drainage features.

The estimated extent of TPH impacted soil is illustrated on Figure 2. This area is based on TPH concentrations above the laboratory reporting limit, not regulatory standards/limits. The illustrated TPH impacted soil areas are limited to soils within the right-of-way.

The TPH impacted soil area around borings 4-DPT-02 and 4-DPT-3 encompasses approximately 1,800 ft² (as illustrated on Figure 2). Based on an assumed zone of contamination from the surface to the estimated water table depth of six (6) feet, (and subtracting the UST volumes) approximately 330 yds³ of TPH impacted soils may be in the area. However, it should be noted the minor TPH DRO concentrations (less than 8 mg/kg) may be limited to the immediate area surrounding the borings and not reflective of clean fill around the USTs (installed in 2006).

The TPH impacted soil area around boring 4-DPT-08 encompasses approximately 410 ft² (as illustrated on Figure 2). Based on an assumed zone of contamination from the surface to the estimated water table depth of six (6) feet, approximately 90 yds³ of TPH impacted soils may be in this area and a portion of this area is within the proposed drainage feature.

The TPH impacted soil area around boring 4-DPT-013 encompasses approximately 170 ft² (as illustrated on Figure 2). Based on an assumed zone of contamination from the surface to the estimated water table depth of six (6) feet, approximately 38 yds³ of TPH impacted soils may be in this area. However, it should be noted this area is based on limited data from one sample location and “clean” sample locations do not define this area to the north, east, or west.

4.0 SUMMARY AND RECOMMENDATIONS

A preliminary site assessment was conducted at the subject site as requested by NCDOT. Right-of-Way acquisition for NC 24 roadway construction is proposed at the site. In the event a cut is required for roadway construction or utility installation, any soil samples revealing detectable TPH

concentrations will be considered petroleum impacted for handling and disposal purposes.

Two (2) known USTs and an active dispenser island are located at the site. Two (2) probable USTs were also identified during the geophysical investigation.

No TPH concentrations were revealed in sample collected along the proposed drainage features.

Thirteen (13) borings were advanced for soil sample collection. Minor petroleum impacts were detected in soil samples collected near the active USTs and dispenser island/canopy. Minor petroleum impacts were also detected in a soil sample collected near the probable USTs located on the southeastern portion of the property. The total volume of impacted soils is approximately 460 yds³ or roughly 700 tons.

Groundwater sample results reviewed at NCDENR indicate groundwater contamination in the area of the proposed drainage feature near the dispenser canopy. Nine (9) monitoring wells are currently at the site. The depth to water has been reported at approximately six (6) feet BLS across the site. If an excavation extends below the water table additional contaminant soil volume could be expected.

CATLIN recommends removing the active UST system and collecting composite soil samples for waste characterization or disposing of excavated soils as petroleum impacted waste. Additionally, the area of the Probable USTs should be further investigated (excavated) and any soils removed or tanks uncovered should be properly disposed.

Any utility or construction contractor should be notified of these (and/or future investigation) findings and be advised to be prepared to handle petroleum impacted soil near areas indicated on Figure 2. Additionally, based on NCDENR file review information provided in Appendix D, petroleum impacted groundwater is widespread across the site. Any saturated soils encountered may need to be handled as a petroleum impacted waste.

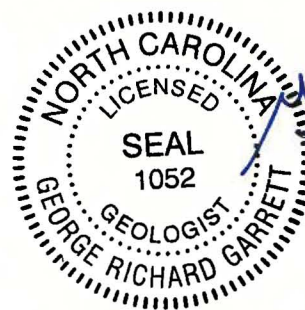
5.0 LIMITATIONS

This report is based on the agreed work scope and a review of available data from limited sampling. It is possible that this investigation may have failed to reveal the presence of contamination in the project area where such contamination may exist. Although CATLIN has used accepted methods appropriate for soil and groundwater sampling, CATLIN cannot guarantee that additional soil and/or groundwater contamination does not exist.

6.0 SIGNATURES



Benjamin J. Ashba
Project Manager



G. Richard Garrett, P.G.
Senior Project Manager

TABLES

TABLE 1
SUMMARY OF SOIL LABORATORY RESULTS
EPA METHOD 8015

Parcel #004
Leiburn R. Strickland Property
Strickland Marathon
9007 Clinton Rd.
Stedman, North Carolina
Facility ID: 0-036802
Groundwater Incident: 29271

Sample ID	Location		Contaminant of Concern →	Diesel Range Organics	Gasoline Range Organics
	Northing	Easting	Date Collected		
4-DPT-01 (4-6ft)	455960.611	2103439.064	6/21/2011	<6.21	<4.01
4-DPT-02 (3-4ft)	455943.311	2103456.938	6/21/2011	6.70	<3.78
4-DPT-03 (1-2ft)	455937.353	2103418.982	6/21/2011	7.19	<3.83
4-DPT-04 (3-4ft)	455909.345	2103431.486	6/21/2011	<6.46	<3.45
4-DPT-05 (1-2ft)	455958.186	2103402.045	6/21/2011	<6.61	<3.58
4-DPT-06 (1-2ft)	455956.594	2103483.069	6/21/2011	<6.40	<3.81
4-DPT-07 (3-4ft)	455844.436	2103443.077	6/21/2011	<6.60	<3.71
4-DPT-08 (1-2ft)	455856.369	2103435.420	6/21/2011	7.80	<3.67
4-DPT-09 (3-4ft)	455868.819	2103464.017	6/21/2011	<6.56	<3.66
4-DPT-10 (2-3ft)	455888.438	2103443.125	6/21/2011	<6.61	<3.95
4-DPT-11 (3-4ft)	455850.620	2103460.406	6/21/2011	<6.42	<3.39
4-DPT-12 (3-4ft)	455835.186	2103507.684	6/21/2011	<6.33	<3.75
4-DPT-13 (3.5ft)	455841.026	2103501.526	6/24/2011	8.56	<3.57

All results in milligrams per kilogram (mg/kg).

Location coordinates: US State Plane 1983, NC Zone 3200, NAD 1983, US Survey feet

Sample depth in feet provided in parenthesis () as part of the Sample ID.

< = Less than reporting limit

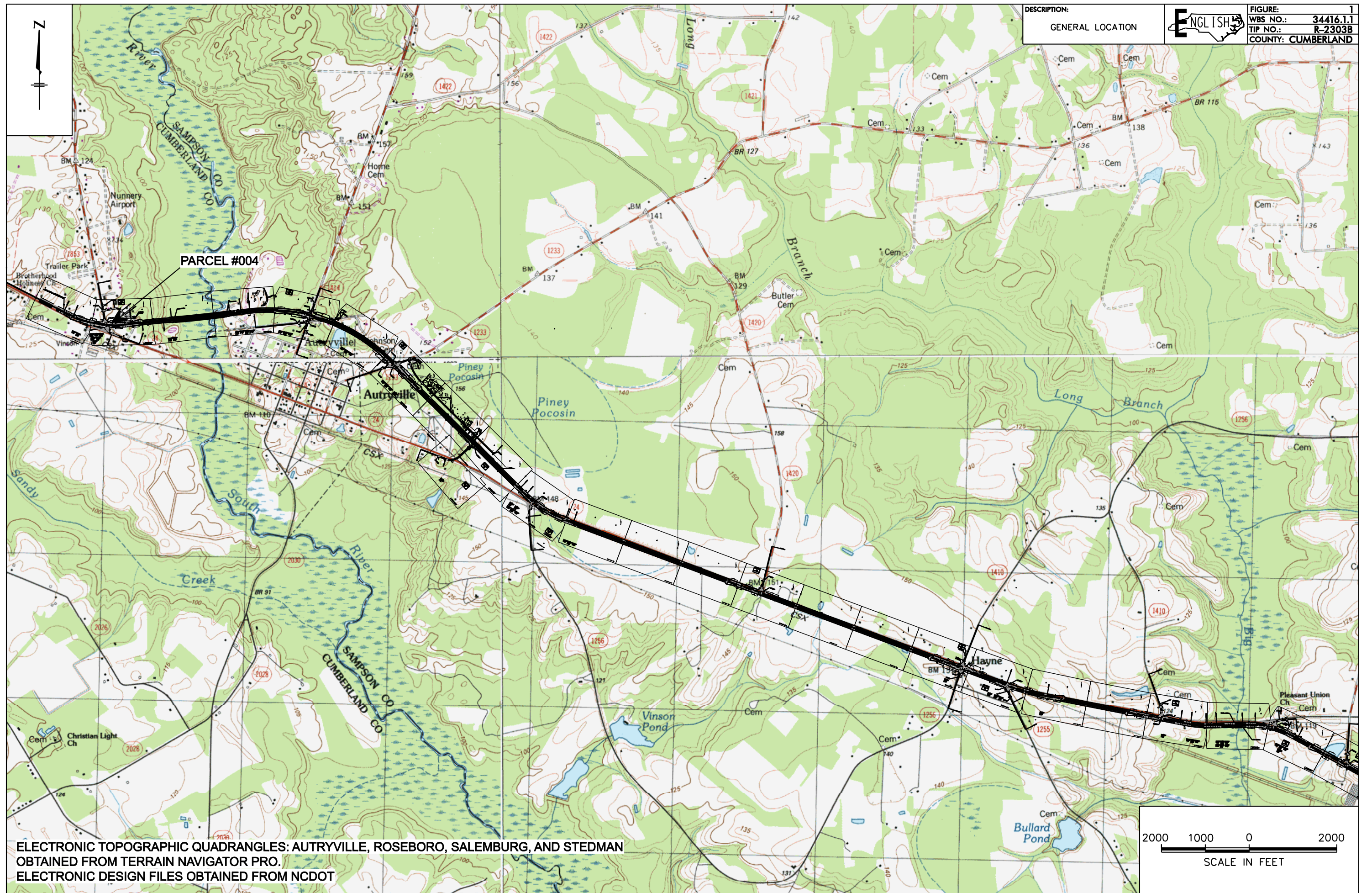
Results in bold exceed the reporting limit.

FIGURES

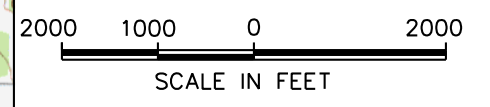
DESCRIPTION:
GENERAL LOCATION



FIGURE: 1
WBS NO.: 34416.1.1
TIP NO.: R-2303B
COUNTY: CUMBERLAND

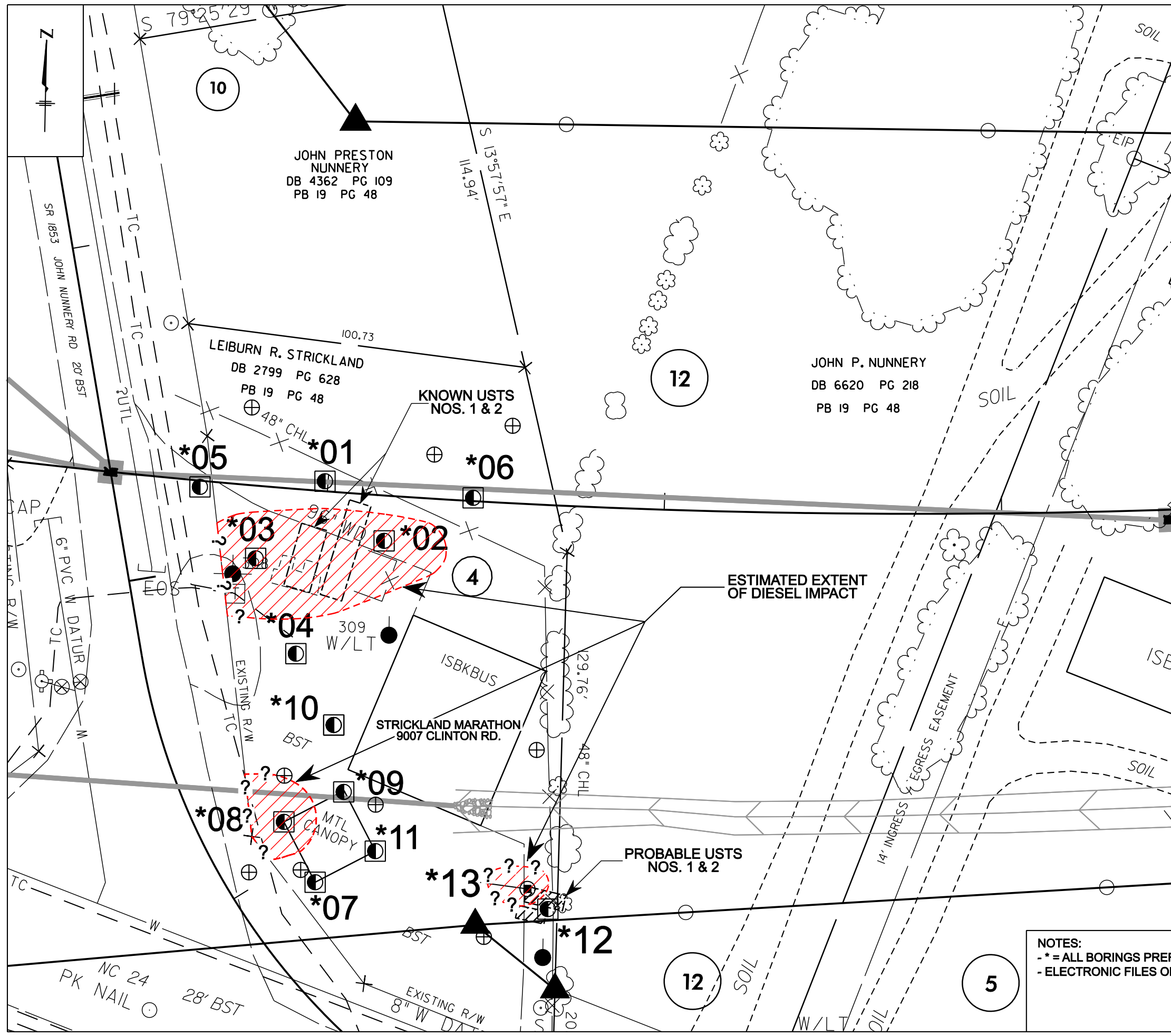


ELECTRONIC TOPOGRAPHIC QUADRANGLES: AUTRYVILLE, ROSEBORO, SALEMBURG, AND STEDMAN
OBTAINED FROM TERRAIN NAVIGATOR PRO.
ELECTRONIC DESIGN FILES OBTAINED FROM NCDOT



Sample ID	Date Collected	Contaminant of Concern	
		Diesel Range Organics	Gasoline Range Organics
4-DPT-01 (4-6ft)	6/21/2011	<6.21	<4.01
4-DPT-02 (3-4ft)	6/21/2011	6.70	<3.78
4-DPT-03 (1-2ft)	6/21/2011	7.19	<3.83
4-DPT-04 (3-4ft)	6/21/2011	<6.46	<3.45
4-DPT-05 (1-2ft)	6/21/2011	<6.61	<3.58
4-DPT-06 (1-2ft)	6/21/2011	<6.40	<3.81
4-DPT-07 (3-4ft)	6/21/2011	<6.60	<3.71
4-DPT-08 (1-2ft)	6/21/2011	7.80	<3.67
4-DPT-09 (3-4ft)	6/21/2011	<6.56	<3.66
4-DPT-10 (2-3ft)	6/21/2011	<6.61	<3.95
4-DPT-11 (3-4ft)	6/21/2011	<6.42	<3.39
4-DPT-12 (3-4ft)	6/21/2011	<6.33	<3.75
4-DPT-13 (3.5ft)	6/24/2011	8.56	<3.57

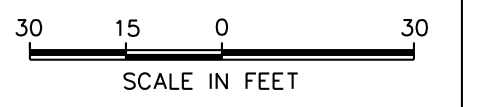
All results in milligrams per kilogram (mg/kg).
 Sample depth in feet provided in parenthesis () as part of the Sample ID.
 < = Less than reporting
 Results in bold exceed the reporting limit.



LEGEND

- DPT SOIL BORING/SAMPLE
- POST HOLE BORING/SOIL SAMPLE
- EXISTING MONITORING WELL

NOTES:
 - * = ALL BORINGS PREFACED WITH "4-DPT."
 - ELECTRONIC FILES OBTAINED FROM NCDOT



APPENDICES

APPENDIX A
BORING LOGS

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-01
NORTHING: 455,960.61		EASTING: 2,103,439.06	DRILLER: Michael D. Mason
SYSTEM:		BORING LOCATION: N. of UST basin along proposed drainage	LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: ~7	BORING DEPTH: 8.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm)				LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
			0	1000	2000	3000				4000	DEPTH
0.0									0.0	LAND SURFACE	
									0.5	CONCRETE.	
		D	▲48.4						2.0	Brown, Sandy GRAVEL.	
4.0									4.0	S.A.A.	
		Sat.	▲199.0				4-DPT-01 (4-6') @ 1215		6.0	S.A.A.	
8.0									8.0	S.A.A.	

Boring Terminated at Depth 8.0 ft

CATLIN ENVIRO LOG_211043_NCDOT_NC24-SR1404_GEL_CATLIN.GDI_7/25/11

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-02
NORTHING: 455,943.31		EASTING: 2,103,456.94	DRILLER: Michael D. Mason
SYSTEM:		BORING LOCATION: E. of UST basin	LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: ~7	BORING DEPTH: 8.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT	MOI.	PID RESULTS (ppm)	LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0	0.5 0.5 0.5 0.5		0 1000 2000 3000 4000				0.0	LAND SURFACE
0.0 - 2.0		D	▲71.0		SM		2.0	Brown, vf. to coarse SAND w/ SILT.
2.0 - 4.0		D	▲130.0	4-DPT-02 (3-4') @ 1230	SP		4.0	S.A.A. grading to clean f. SAND, varying brown colors.
4.0 - 6.0		D	▲70.7		SP		6.0	S.A.A.
6.0 - 8.0		W	▲20.1		CL		8.0	Light grayish-tan, Sandy CLAY. Med. plasticity.

Boring Terminated at Depth 8.0 ft

CATLIN\ENVIRO.LOG_211043.NC.DOT_NC24-SR1404.GPJ_CATLIN.GDI_7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-03
NORTHING: 455,937.35		EASTING: 2,103,418.98	CREW:
SYSTEM:		BORING LOCATION: W. of UST basin	LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0		D	▲63.9	4-DPT-03 (1-2') @ 1245	SP		2.0	Fine SAND.
4.0		D	▲16.0		SP		4.0	S.A.A. w/ tr. silt and clay content @ 4' BLS.
Boring Terminated at Depth 4.0 ft								

CATLIN ENVIRO LOG - 211043.NC.DOT_NC24-SR1404.GPJ.CATLIN.GDI_7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-04
		DRILLER: Michael D. Mason	
NORTHING: 455,909.35	EASTING: 2,103,431.49	CREW:	
SYSTEM:	BORING LOCATION: S. of UST basin		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0		D	▲19.2		SP		2.0	Fine SAND. Varying brown colors.
4.0		D	▲42.2	4-DPT-04 (3-4')	SP		4.0	S.A.A.
Boring Terminated at Depth 4.0 ft								

CATLIN ENVIRO. LOG. 211043.NC.DOT_NC24-SR1404.GPJ.CATLIN.GDI.7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-05
		DRILLER: Michael D. Mason	
NORTHING: 455,958.19	EASTING: 2,103,402.05	CREW:	
SYSTEM:	BORING LOCATION: Western side of proposed drainage		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0		D	▲14.8	4-DPT-05 (1-2') @ 1315	SP		2.0	Vf to f. SAND. Dark brown grading to light brown.
4.0		D	▲6.2		SP		4.0	S.A.A.
Boring Terminated at Depth 4.0 ft								

CATLIN ENVIRO LOG - 211043.NC.DOT_NC24-SR1404.GPJ.CATLIN.GDI_7/25/11

▽ = 0hr. DTW ▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-06
		DRILLER: Michael D. Mason	
NORTHING: 455,956.59	EASTING: 2,103,483.07	CREW:	
SYSTEM:	BORING LOCATION: Eastern side of proposed drainage		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
2.0		D	▲43.0	4-DPT-06 (1-2) @ 1330	SP		2.0	Fine SAND. Varying brown colors.
4.0		M	▲8.4		SP		4.0	S.A.A.
								Boring Terminated at Depth 4.0 ft

CATLIN ENVIRO. LOG_211043_NCDOT_NC24-SR1404.GPJ.CATLIN.GDI_7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-07
NORTHING: 455,844.44		EASTING: 2,103,443.08	CREW: Michael D. Mason
SYSTEM:	BORING LOCATION: Southern corner of canopy		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT	MOI.	PID RESULTS (ppm)	LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0	0.5 0.5 0.5 0.5		0 1000 2000 3000 4000				0.0	LAND SURFACE
0.0		D	▲9.2		GP	0.3	0.3	ASPHALT.
0.5					GP	0.5	0.5	GRAVEL.
2.0		D	▲9.5	4-DPT-07 (3-4") @ 1345	SP	2.0	2.0	Fine SAND. Varying brown colors to orangish-brown.
4.0					SP	4.0	4.0	S.A.A.
Boring Terminated at Depth 4.0 ft								

CATLIN ENVIRO LOG_211043.NC.DOT_NC24-SR1404.GPJ.CATLIN.GDI_7/25/11

▽ = 0hr. DTW ▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-08
		DRILLER: Michael D. Mason	
NORTHING: 455,856.37	EASTING: 2,103,435.42	CREW:	
SYSTEM:	BORING LOCATION: W. side of canopy		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
0.0		D	▲16.4	4-DPT-08 (1-2) @ 1400	GP	0.3	0.3	ASPHALT.
0.5					GP	0.5	0.5	GRAVEL.
2.0		D	▲11.5		SP	2.0	2.0	Fine SAND. Dark brown grading to orangish-brown. S.A.A.
4.0					SP	4.0	4.0	Boring Terminated at Depth 4.0 ft

CATLIN ENVIRO. LOG_211043_NCDOT_NC24-SR1404_GEL_CATLIN_GDI_7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-09
NORTHING: 455,868.82		EASTING: 2,103,464.02	DRILLER: Michael D. Mason
SYSTEM:		BORING LOCATION: N. corner of canopy	CREW:
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --
LAND ELEV.: NM			

DEPTH	BLOW COUNT	MOI.	PID RESULTS (ppm)	LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0	0.5 0.5 0.5 0.5		0 1000 2000 3000 4000				0.0	LAND SURFACE
0.0		D	▲12.1		GP		0.3	ASPHALT.
0.5					GP		0.5	GRAVEL.
1.0					SP		1.0	Fine SAND.
1.5					GW		1.5	GRAVEL.
2.0		D	▲28.4	4-DPT-09 (3-4') @ 1415	SP		2.0	Fine SAND. Varying brown colors.
4.0					SP		4.0	S.A.A.
Boring Terminated at Depth 4.0 ft								

CATLIN ENVIRO. LOG_211043_NCDOT_NC24-SR1404.GPJ.CATLIN.GDI_7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID:
		DRILLER: Michael D. Mason	4-DPT-10
NORTHING: 455,888.44	EASTING: 2,103,443.13	CREW:	
SYSTEM:	BORING LOCATION: Midpoint of Gas Supply line		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
		D	▲21.7		GP		0.3	ASPHALT.
2.0					SP		2.0	Vf to f. SAND. Grayish-brown grading to light brown to brown w/ depth. Black @ ~2' BLS. No petro odor.
		D	▲25.7	4-DPT-10 (2-3') @ 1430	SP			S.A.A.
4.0							4.0	Boring Terminated at Depth 4.0 ft

CATLIN ENVIRO. LOG. 211043.NC.DOT_NC24-SR1404.GPJ.CATLIN.GDI.7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID: 4-DPT-11
		DRILLER: Michael D. Mason	
NORTHING: 455,850.62	EASTING: 2,103,460.41	CREW:	
SYSTEM:	BORING LOCATION: E. side of canopy		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	U S C S	L O G	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0							0.0	LAND SURFACE
0.0		D	▲17.4		GP	0.3	0.3	ASPHALT.
2.0					SP		2.0	Brown, Vf. to f. SAND w/ tr. coarse grains.
2.0		D	▲18.2	4-DPT-11 (3-4') @ 1445	SP		4.0	S.A.A.
4.0							4.0	Boring Terminated at Depth 4.0 ft

CATLIN ENVIRO LOG_211043_NCDOT_NC24-SR1404.GPJ.CATLIN.GDI_7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID:
		DRILLER: Michael D. Mason	4-DPT-12
NORTHING: 455,835.19	EASTING: 2,103,507.68	CREW:	
SYSTEM:	BORING LOCATION: E. of orphan USTs		LAND ELEV.: NM
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: N/A	BORING DEPTH: 4.0
START DATE: 6/21/11	FINISH DATE: 6/21/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT	MOI.	PID RESULTS (ppm)	LAB.	USCS	LOG	SOIL AND ROCK DESCRIPTION	
							DEPTH	ELEVATION
0.0	0.5 0.5 0.5 0.5		0 1000 2000 3000 4000				0.0	LAND SURFACE
2.0		D	▲22.0		SP		2.0	Vf. to f. SAND. Varying browns.
4.0		D	▲59.1	4-DPT-12 (3-4') @ 1500	SP		4.0	S.A.A.
Boring Terminated at Depth 4.0 ft								

CATLIN ENVIRO. LOG. 211043.NC.DOT_NC24-SR1404.GPJ.CATLIN.GDT_7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

BORING LOG



Wilmington, NC

PROJECT NO.: 211043	STATE: NC	COUNTY: Cumberland	LOCATION: Stedman
PROJECT NAME: NC 24 from SR 1853 to SR 1404		LOGGED BY: Ben Ashba	BORING ID:
		DRILLER: Michael D. Mason	4-DPT-13
NORTHING: 455,841.03	EASTING: 2,103,501.53	CREW:	
SYSTEM:	BORING LOCATION: N. of orphan USTs		LAND ELEV.: NM
DRILL MACHINE: Hand Auger	METHOD: Post Hole Dig	0 HOUR DTW: N/A	BORING DEPTH: 3.5
START DATE: 6/24/11	FINISH DATE: 6/24/11	24 HOUR DTW: N/A	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	PID RESULTS (ppm) 0 1000 2000 3000 4000	LAB.	U S C S	L O G	SOIL AND ROCK		
							DEPTH	DESCRIPTION	ELEVATION
0.0							0.0	LAND SURFACE	
2.0		D			SP		2.0	F. SAND.	
3.5		D		4-DPT-12 (3.5') @ 0830	SP			S.A.A.	
4.0							4.0	Boring Terminated at Depth 3.5 ft	

CATLIN ENVIRO. LOG 211043.NCDDOT_NC24-SR1404.GPJ.CATLIN.GDT 7/25/11

▽ = 0hr. DTW

▼ = 24hr. DTW

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



Laboratory Report of Analysis

To: Ben Ashba
RICHARD CATLIN & ASSOCIATES
P.O. Box 10279
Wilmington, NC 28404

Report Number: **31101647**

Client Project: **Strickland Prop-Parcel 4**

Dear Ben Ashba,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. 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. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. 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 services performed during this project, please call Barbara A. Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Barbara A. Hager
Project Manager
barbara.hager@sgs.com

Date

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < LOD)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Amount detected is between the Method Detection Limit and the Lower Calibration Limit
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range
M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.



Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
4-DPT-01 (4-6ft)	31101647001	06/21/2011 12:15	06/24/2011 11:30	Soil-Solid as dr
4-DPT-02 (3-4ft)	31101647002	06/21/2011 12:30	06/24/2011 11:30	Soil-Solid as dr
4-DPT-03 (1-2ft)	31101647003	06/21/2011 12:45	06/24/2011 11:30	Soil-Solid as dr
4-DPT-04 (3-4ft)	31101647004	06/21/2011 13:00	06/24/2011 11:30	Soil-Solid as dr
4-DPT-05 (1-2ft)	31101647005	06/21/2011 13:15	06/24/2011 11:30	Soil-Solid as dr
4-DPT-06 (1-2ft)	31101647006	06/21/2011 13:30	06/24/2011 11:30	Soil-Solid as dr
4-DPT-07 (3-4ft)	31101647007	06/21/2011 13:45	06/24/2011 11:30	Soil-Solid as dr
4-DPT-08 (1-2ft)	31101647008	06/21/2011 14:00	06/24/2011 11:30	Soil-Solid as dr
4-DPT-09 (3-4ft)	31101647009	06/21/2011 14:15	06/24/2011 11:30	Soil-Solid as dr
4-DPT-10 (2-3ft)	31101647010	06/21/2011 14:30	06/24/2011 11:30	Soil-Solid as dr
4-DPT-11 (3-4ft)	31101647011	06/21/2011 14:45	06/24/2011 11:30	Soil-Solid as dr
4-DPT-12 (3-4ft)	31101647012	06/21/2011 15:00	06/24/2011 11:30	Soil-Solid as dr
4-DPT-13 (3-5ft)	31101647013	06/24/2011 08:30	06/24/2011 11:30	Soil-Solid as dr



Results of 4-DPT-01 (4-6ft)

Client Sample ID: **4-DPT-01 (4-6ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647001-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 12:15
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 97

Results by SW-846 8015C GRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		4.01	mg/kg	1	06/27/2011 12:59

Surrogates

4-Bromofluorobenzene	101		70.0-130	%	1	06/27/2011 12:59
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 12:59**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.13 g**
Prep Extract Vol: **5 mL**



Results of 4-DPT-01 (4-6ft)

Client Sample ID: **4-DPT-01 (4-6ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647001-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 12:15
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 97

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.21	mg/kg	1	06/30/2011 16:38
Surrogates						
o-Terphenyl	59.7		40.0-140	%	1	06/30/2011 16:38

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 16:38**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **33.11 g**
Prep Extract Vol: **10 mL**



Results of **4-DPT-02 (3-4ft)**

Client Sample ID: **4-DPT-02 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647002-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 12:30
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 93

Results by **SW-846 8015C GRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.78	mg/kg	1	06/27/2011 13:26

Surrogates

4-Bromofluorobenzene	98.8		70.0-130	%	1	06/27/2011 13:26
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 13:26**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.71 g**
Prep Extract Vol: **5 mL**



Results of 4-DPT-02 (3-4ft)

Client Sample ID: **4-DPT-02 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647002-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 12:30
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 93

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	6.70		6.66	mg/kg	1	06/30/2011 17:06
Surrogates						
o-Terphenyl	61.4		40.0-140	%	1	06/30/2011 17:06

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 17:06**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **32.35 g**
Prep Extract Vol: **10 mL**



Results of 4-DPT-03 (1-2ft)

Client Sample ID: **4-DPT-03 (1-2ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647003-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 12:45
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 94

Results by SW-846 8015C GRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.83	mg/kg	1	06/27/2011 13:53

Surrogates

4-Bromofluorobenzene	97.4		70.0-130	%	1	06/27/2011 13:53
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 13:53**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.55 g**
Prep Extract Vol: **5 mL**



Results of 4-DPT-03 (1-2ft)

Client Sample ID: **4-DPT-03 (1-2ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647003-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 12:45
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 94

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	7.19		6.67	mg/kg	1	06/30/2011 17:34
Surrogates						
o-Terphenyl	62.6		40.0-140	%	1	06/30/2011 17:34

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 17:34**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **31.82 g**
Prep Extract Vol: **10 mL**



Results of 4-DPT-04 (3-4ft)

Client Sample ID: **4-DPT-04 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647004-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 13:00
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 94

Results by SW-846 8015C GRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.45	mg/kg	1	06/27/2011 14:20

Surrogates

4-Bromofluorobenzene	98.7		70.0-130	%	1	06/27/2011 14:20
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 14:20**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **6.16 g**
Prep Extract Vol: **5 mL**



Results of 4-DPT-04 (3-4ft)

Client Sample ID: **4-DPT-04 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647004-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 13:00
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 94

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.46	mg/kg	1	06/30/2011 18:03
Surrogates						
o-Terphenyl	62.3		40.0-140	%	1	06/30/2011 18:03

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 18:03**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **32.87 g**
Prep Extract Vol: **10 mL**



Results of 4-DPT-05 (1-2ft)

Client Sample ID: **4-DPT-05 (1-2ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647005-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 13:15
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 96

Results by SW-846 8015C GRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.58	mg/kg	1	06/27/2011 14:47

Surrogates

4-Bromofluorobenzene	97.7		70.0-130	%	1	06/27/2011 14:47
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 14:47**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.81 g**
Prep Extract Vol: **5 mL**



Results of **4-DPT-05 (1-2ft)**

Client Sample ID: **4-DPT-05 (1-2ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647005-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 13:15
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 96

Results by **SW-846 8015C DRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.61	mg/kg	1	06/30/2011 18:31
Surrogates						
o-Terphenyl	62.9		40.0-140	%	1	06/30/2011 18:31

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 18:31**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **31.49 g**
Prep Extract Vol: **10 mL**



Results of **4-DPT-06 (1-2ft)**

Client Sample ID: **4-DPT-06 (1-2ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647006-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 13:30
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 95

Results by **SW-846 8015C GRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.81	mg/kg	1	06/27/2011 15:14

Surrogates

4-Bromofluorobenzene	100		70.0-130	%	1	06/27/2011 15:14
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 15:14**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.52 g**
Prep Extract Vol: **5 mL**



Results of 4-DPT-06 (1-2ft)

Client Sample ID: **4-DPT-06 (1-2ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647006-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 13:30
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 95

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.40	mg/kg	1	06/30/2011 19:00
Surrogates						
o-Terphenyl	61.0		40.0-140	%	1	06/30/2011 19:00

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 19:00**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **32.88 g**
Prep Extract Vol: **10 mL**



Results of 4-DPT-07 (3-4ft)

Client Sample ID: **4-DPT-07 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647007-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 13:45
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 94

Results by SW-846 8015C GRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.71	mg/kg	1	06/27/2011 15:41

Surrogates

4-Bromofluorobenzene	97.5		70.0-130	%	1	06/27/2011 15:41
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 15:41**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.72 g**
Prep Extract Vol: **5 mL**



Results of **4-DPT-07 (3-4ft)**

Client Sample ID: **4-DPT-07 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647007-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 13:45
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 94

Results by **SW-846 8015C DRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.60	mg/kg	1	06/30/2011 19:28
Surrogates						
o-Terphenyl	64.0		40.0-140	%	1	06/30/2011 19:28

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 19:28**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **32.11 g**
Prep Extract Vol: **10 mL**



Results of **4-DPT-08 (1-2ft)**

Client Sample ID: **4-DPT-08 (1-2ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647008-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 14:00
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 95

Results by **SW-846 8015C GRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.67	mg/kg	1	06/27/2011 16:09

Surrogates

4-Bromofluorobenzene	98.1		70.0-130	%	1	06/27/2011 16:09
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 16:09**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.71 g**
Prep Extract Vol: **5 mL**



Results of **4-DPT-08 (1-2ft)**

Client Sample ID: **4-DPT-08 (1-2ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647008-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 14:00
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 95

Results by **SW-846 8015C DRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	7.80		6.53	mg/kg	1	07/1/2011 11:23
Surrogates						
o-Terphenyl	64.2		40.0-140	%	1	07/1/2011 11:23

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **07/01/2011 11:23**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **32.13 g**
Prep Extract Vol: **10 mL**



Results of **4-DPT-09 (3-4ft)**

Client Sample ID: **4-DPT-09 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647009-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 14:15
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 96

Results by **SW-846 8015C GRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.66	mg/kg	1	06/27/2011 16:36

Surrogates

4-Bromofluorobenzene	97.0		70.0-130	%	1	06/27/2011 16:36
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 16:36**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.68 g**
Prep Extract Vol: **5 mL**



Results of 4-DPT-09 (3-4ft)

Client Sample ID: **4-DPT-09 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647009-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 14:15
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 96

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.56	mg/kg	1	06/30/2011 20:25
Surrogates						
o-Terphenyl	59.8		40.0-140	%	1	06/30/2011 20:25

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 20:25**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **31.64 g**
Prep Extract Vol: **10 mL**



Results of **4-DPT-10 (2-3ft)**

Client Sample ID: **4-DPT-10 (2-3ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647010-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 14:30
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 92

Results by **SW-846 8015C GRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.95	mg/kg	1	06/27/2011 17:03

Surrogates

4-Bromofluorobenzene	97.7		70.0-130	%	1	06/27/2011 17:03
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 17:03**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.49 g**
Prep Extract Vol: **5 mL**



Results of **4-DPT-10 (2-3ft)**

Client Sample ID: **4-DPT-10 (2-3ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647010-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 14:30
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 92

Results by **SW-846 8015C DRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.61	mg/kg	1	06/30/2011 20:54

Surrogates

o-Terphenyl	54.6		40.0-140	%	1	06/30/2011 20:54
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Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 20:54**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **32.81 g**
Prep Extract Vol: **10 mL**



Results of **4-DPT-11 (3-4ft)**

Client Sample ID: **4-DPT-11 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647011-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 14:45
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 95

Results by **SW-846 8015C GRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.39	mg/kg	1	06/27/2011 17:30

Surrogates

4-Bromofluorobenzene	100		70.0-130	%	1	06/27/2011 17:30
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 17:30**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **6.21 g**
Prep Extract Vol: **5 mL**

Results of 4-DPT-11 (3-4ft)

Client Sample ID: **4-DPT-11 (3-4ft)**
 Client Project ID: **Strickland Prop-Parcel 4**
 Lab Sample ID: 31101647011-C
 Lab Project ID: 31101647

Collection Date: 06/21/2011 14:45
 Received Date: 06/24/2011 11:30
 Matrix: Soil-Solid as dry weight
 Solids (%): 95

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.42	mg/kg	1	06/30/2011 21:22

Surrogates

o-Terphenyl	64.3		40.0-140	%	1	06/30/2011 21:22
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Batch Information

Analytical Batch: **XGC1337**
 Analytical Method: **SW-846 8015C DRO**
 Instrument: **GC6**
 Analyst: **DTF**
 Analytical Date/Time: **06/30/2011 21:22**

Prep Batch: **XXX1485**
 Prep Method: **SW-846 3541**
 Prep Date/Time: **06/29/2011 11:30**
 Prep Initial Wt./Vol.: **32.75 g**
 Prep Extract Vol: **10 mL**



Results of **4-DPT-12 (3-4ft)**

Client Sample ID: **4-DPT-12 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647012-A
Lab Project ID: 31101647

Collection Date: 06/21/2011 15:00
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 97

Results by **SW-846 8015C GRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.75	mg/kg	1	06/27/2011 17:56

Surrogates

4-Bromofluorobenzene	101		70.0-130	%	1	06/27/2011 17:56
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 17:56**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.52 g**
Prep Extract Vol: **5 mL**



Results of 4-DPT-12 (3-4ft)

Client Sample ID: **4-DPT-12 (3-4ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647012-C
Lab Project ID: 31101647

Collection Date: 06/21/2011 15:00
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 97

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	ND		6.33	mg/kg	1	06/30/2011 21:50
Surrogates						
o-Terphenyl	60.0		40.0-140	%	1	06/30/2011 21:50

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **06/30/2011 21:50**

Prep Batch: **XXX1485**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:30**
Prep Initial Wt./Vol.: **32.7 g**
Prep Extract Vol: **10 mL**



Results of **4-DPT-13 (3-5ft)**

Client Sample ID: **4-DPT-13 (3-5ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647013-A
Lab Project ID: 31101647

Collection Date: 06/24/2011 08:30
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 94

Results by **SW-846 8015C GRO**

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Gasoline Range Organics (GRO)	ND		3.57	mg/kg	1	06/27/2011 18:23

Surrogates

4-Bromofluorobenzene	100		70.0-130	%	1	06/27/2011 18:23
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Batch Information

Analytical Batch: **VGC1280**
Analytical Method: **SW-846 8015C GRO**
Instrument: **GC4**
Analyst: **LMC**
Analytical Date/Time: **06/27/2011 18:23**

Prep Batch: **VXX1698**
Prep Method: **SW-846 5035**
Prep Date/Time: **06/27/2011 11:02**
Prep Initial Wt./Vol.: **5.97 g**
Prep Extract Vol: **5 mL**



Results of 4-DPT-13 (3-5ft)

Client Sample ID: **4-DPT-13 (3-5ft)**
Client Project ID: **Strickland Prop-Parcel 4**
Lab Sample ID: 31101647013-C
Lab Project ID: 31101647

Collection Date: 06/24/2011 08:30
Received Date: 06/24/2011 11:30
Matrix: Soil-Solid as dry weight
Solids (%): 94

Results by SW-846 8015C DRO

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>Units</u>	<u>DF</u>	<u>Date Analyzed</u>
Diesel Range Organics (DRO)	8.56		6.82	mg/kg	1	07/1/2011 7:45
Surrogates						
o-Terphenyl	69.5		40.0-140	%	1	07/1/2011 7:45

Batch Information

Analytical Batch: **XGC1337**
Analytical Method: **SW-846 8015C DRO**
Instrument: **GC6**
Analyst: **DTF**
Analytical Date/Time: **07/01/2011 07:45**

Prep Batch: **XXX1487**
Prep Method: **SW-846 3541**
Prep Date/Time: **06/29/2011 11:34**
Prep Initial Wt./Vol.: **31.29 g**
Prep Extract Vol: **10 mL**



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CONTACT: Ben Asha @ CATUN PHONE NO: (910) 452-5861

PROJECT: Strickland Prop. - PAPER 4

REPORTS TO: Ben @ CATUN ben.asha@catun.us.com

INVOICE TO: NCDOT

QUOTE # Cumberland County
WBS: 34416.1.1
NUMBERS: R-2303B

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	REMARKS
	4-DPT-01 (4-6')	6/21/11	1215	SPIC	
	4-DPT-02 (3-4')		1230		
	4-DPT-03 (1-2')		1245		
	4-DPT-04 (3-4')		1300		
	4-DPT-05 (1-2')		1315		
	4-DPT-06 (1-2')		1330		
	4-DPT-07 (3-4')		1345		
	4-DPT-08 (1-2')		1400		
	4-DPT-09 (3-4')		1415		
	4-DPT-10 (2-3')		1430		
	4-DPT-11 (3-4')		1445		
	4-DPT-12 (3-4')		1500		
	4-DPT-13 (3-5')	6-24-11	830		

3 SGS Reference: 31101647

Preservatives Used: None

Analysis Required: 3

4

Shipping Carrier: Samples Received Cold? (Circle) YES NO

Shipping Ticket No: Temperature °C: 5.20C

Special Deliverable Requirements: Chain of Custody Seal: (Circle) INTACT BROKEN

Summary EDP

Special Instructions: ABSENT

Requested Turnaround Time: RUSH STD Date Needed

5

Collected/Relinquished By: (1) Ben Asha Date: 6-24-11 Time: 1130 Received By: [Signature]

Relinquished By: (2) [Signature] Date: [] Time: [] Received By: []

Relinquished By: (3) Date: [] Time: [] Received By: []

Relinquished By: (4) Date: [] Time: [] Received By: []

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: Catlin

Work Order No.: 31101647

- | | | |
|-----|--|-----------------------------|
| 1. | <input type="checkbox"/> Shipped
<input checked="" type="checkbox"/> Hand Delivered | Notes: _____
_____ |
| 2. | <input checked="" type="checkbox"/> COC Present on Receipt
<input type="checkbox"/> No COC
<input type="checkbox"/> Additional Transmittal Forms | _____
_____ |
| 3. | <input type="checkbox"/> Custody Tape on Container
<input checked="" type="checkbox"/> No Custody Tape | _____
_____ |
| 4. | <input checked="" type="checkbox"/> Samples Intact
<input type="checkbox"/> Samples Broken / Leaking | _____
_____ |
| 5. | <input checked="" type="checkbox"/> Chilled on Receipt Actual Temp.(s) in °C: <u>5.2</u>
<input type="checkbox"/> Ambient on Receipt
<input type="checkbox"/> Walk-in on Ice; Coming down to temp.
<input type="checkbox"/> Received Outside of Temperature Specifications | _____

_____ |
| 6. | <input checked="" type="checkbox"/> Sufficient Sample Submitted
<input type="checkbox"/> Insufficient Sample Submitted | _____
_____ |
| 7. | <input type="checkbox"/> Chlorine absent
<input type="checkbox"/> HNO3 < 2
<input type="checkbox"/> HCL < 2
<input type="checkbox"/> Additional Preservatives verified (see notes) | <u>NA</u>

_____ |
| 8. | <input checked="" type="checkbox"/> Received Within Holding Time
<input type="checkbox"/> Not Received Within Holding Time | _____
_____ |
| 9. | <input checked="" type="checkbox"/> No Discrepancies Noted
<input type="checkbox"/> Discrepancies Noted | _____
_____ |
| 10. | <input type="checkbox"/> No Headspace present in VOC vials
<input type="checkbox"/> Headspace present in VOC vials >6mm | _____
_____ |

Comments: _____

Inspected and Logged in by: TP
Date: Fri-6/24/11 00:00

APPENDIX C
SCHNABEL GEOPHYSICAL REPORT

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 (monitoring wells, signs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings.

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 anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the possible presence of USTs. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

DISCUSSION OF RESULTS

The contoured EM61 data collected over Parcel 4 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 more sensitive detection of metal objects. 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 USTs.

The early time gate and differential results show anomalies of unknown cause, in addition to those apparently caused by reinforced concrete, buried utilities, or known site features (Figures 3 and 4). The GPR data collected northwest of the northwest corner of the building indicated the presence of two known USTs located approximately 20 to 30 feet northwest of the northwestern building corner. The USTs are inside the limits of the planned right-of way and/or easement. Figures 3 and 4 show the location of the known USTs as marked in the field. Example GPR images showing the reflections from the known USTs are shown on Figures 3, 4, and 5. The GPR data indicate that the known USTs are buried approximately 3.0 to 4.0 feet below ground surface. The GPR data indicate that the western known UST (Known UST No. 1) is about 8 feet in diameter and about 20 feet long, equivalent to a capacity of about 4,000 gallons. The GPR data indicate that the eastern known UST (Known UST No. 2) is about 8 feet in diameter and about 30 feet long, equivalent to a capacity of about 10,000 gallons. Photographs of the known UST locations, as marked in the field, are included on Figure 6.

The GPR data collected southeast of the southeastern corner of the building indicated the presence of two probable USTs located within approximately 20 to 30 feet southeast of the southeastern corner of the building. The probable USTs are inside or partially inside the limits of the planned right-of way and/or easement. Example GPR images showing the reflections from the probable USTs are shown on Figures 3, 4, and 5. Figures 3 and 4 include the locations of the probable USTs as marked in the field. The GPR data indicate that the probable USTs are buried approximately 1.5 to 2.5 feet below ground surface. The GPR data indicate that southern probable UST (Probable UST No. 1) is about 3.5 feet in diameter and about 7.5 feet long, equivalent to a capacity of about 560 gallons. The GPR data indicate that the

northern probable UST (Probable UST No. 2) is about 5.0 feet in diameter and about 9 feet long, equivalent to a capacity of about 1,500 gallons. Photographs of the known and probable UST locations, as marked in the field, are included on Figure 6.

CONCLUSIONS

Our evaluation of the geophysical data collected on the subject property on Project R-2303B in Stedman, NC indicates the following:

The geophysical data indicate the presence of two known USTs and two probable USTs on Parcel 4. The four USTs are partially or totally within the planned right-of-way and/or easement. The western known UST is about 4,000-gallon capacity and is buried about 3.0 to 4.0 feet below ground surface. The eastern known UST is about 10,000-gallon capacity and is buried about 3.0 to 4.0 feet below ground surface. The southern probable UST is about 560-gallon capacity and is buried 1.5 to 2.5 feet below ground surface. The northern probable UST is about 1,500-gallon capacity and is buried 1.5 to 2.5 feet below ground surface.

LIMITATIONS

These services have been performed and this report prepared for Catlin Engineers and Scientists, Inc. 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.

We appreciate the opportunity to have provided these services. Please call if you need additional information or have any questions.

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC



Jeremy S. Strohmeyer, LG
Project Manager



Edward D. Billington, LG
Senior Vice President

JS:NB

Attachments: Figures (6)

FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.41 (R-2303B, CUMBERLAND-SAMPSON CO.)\REPORT\PARCEL 4\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 4 (R-2303B).DOCX



Parcel 4 – Leiburn R. Strickland Property, looking northeast



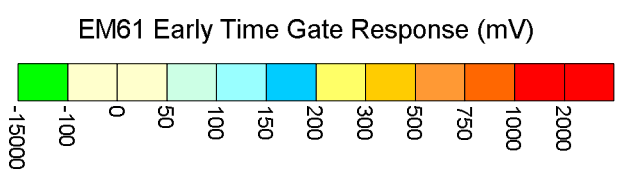
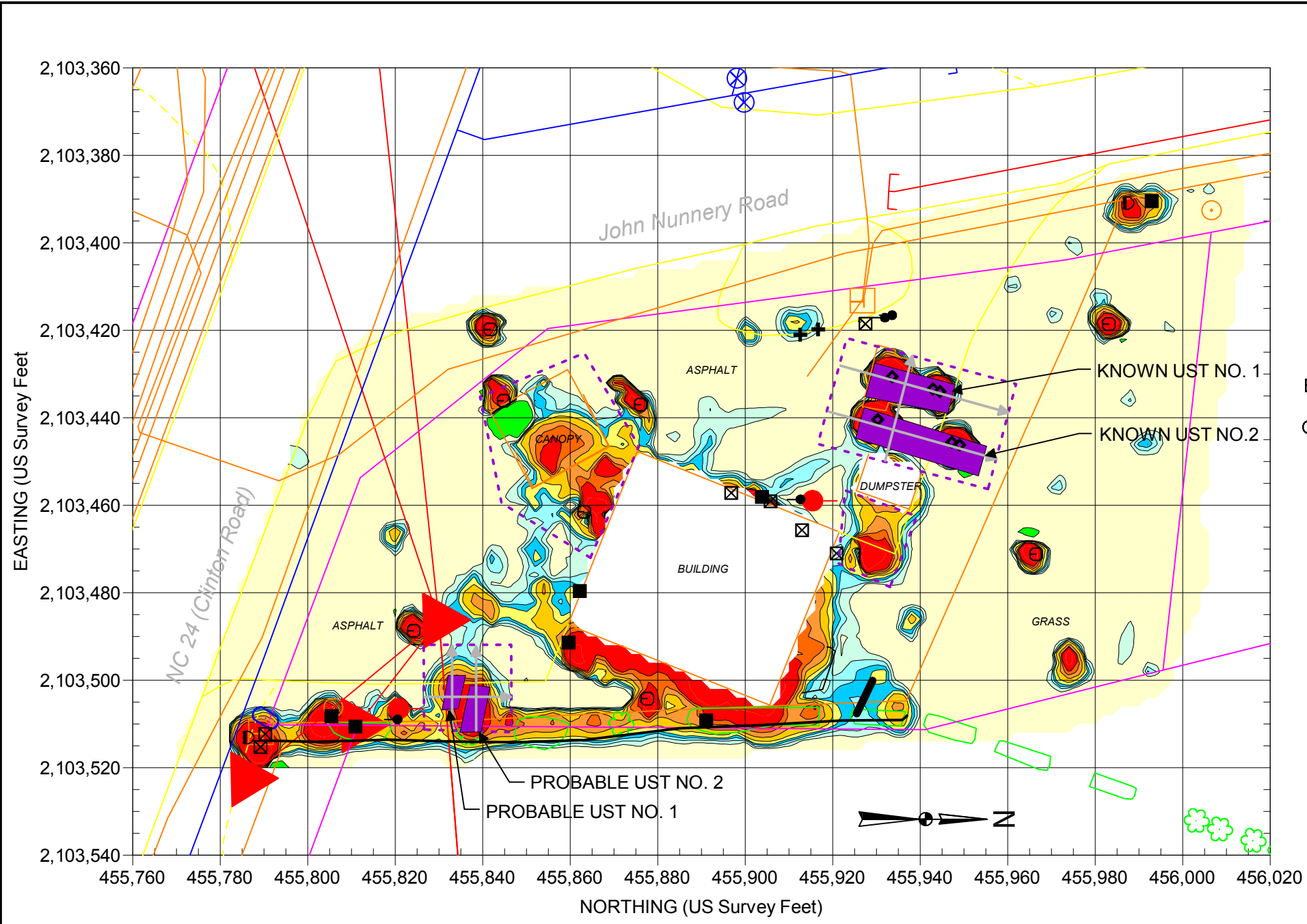
Parcel 4 – Leiburn R. Strickland Property, looking southeast



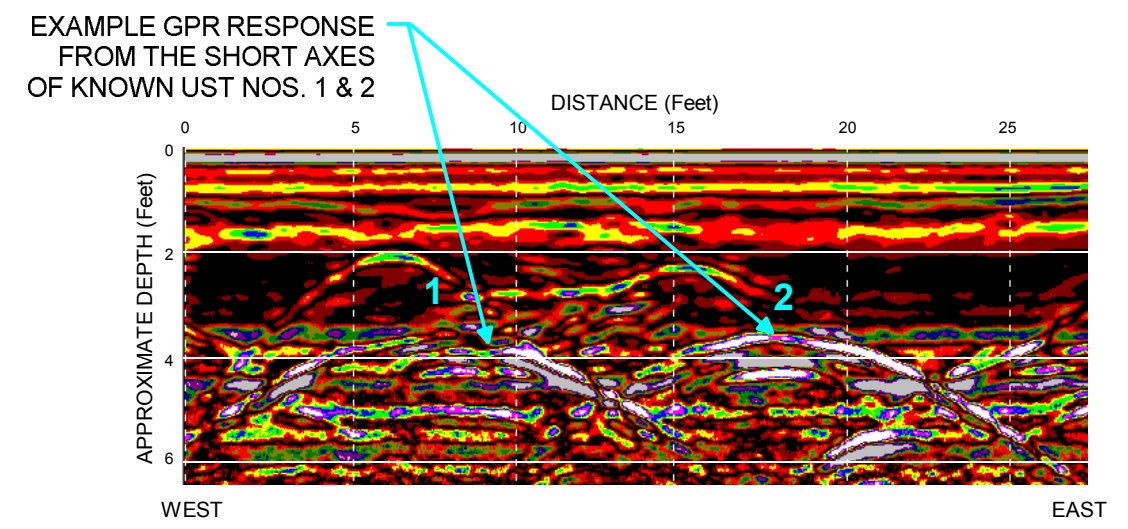
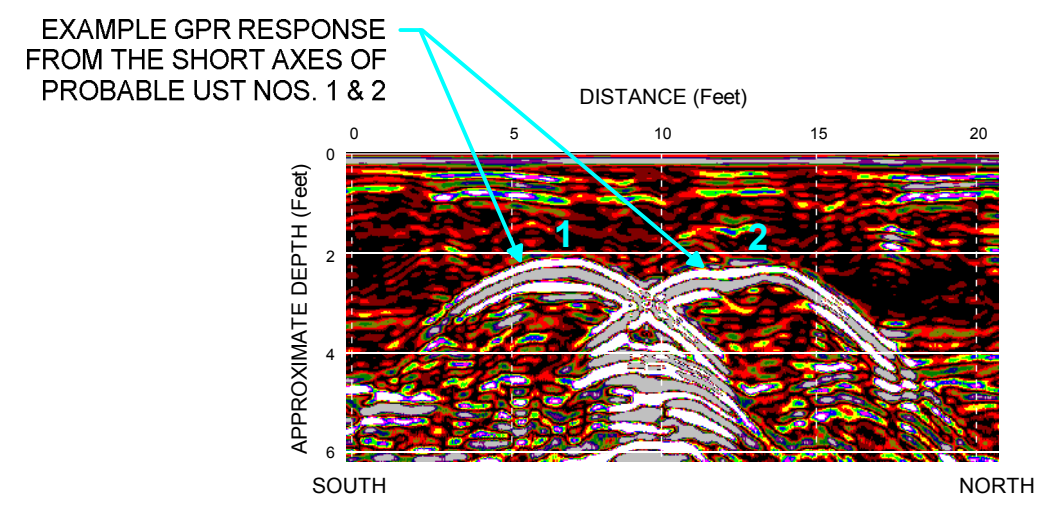
Geonics EM61-MK2



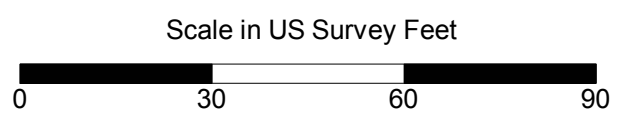
GSSI SIR-3000



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 May 26, 2011, 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 June 7, 2011, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

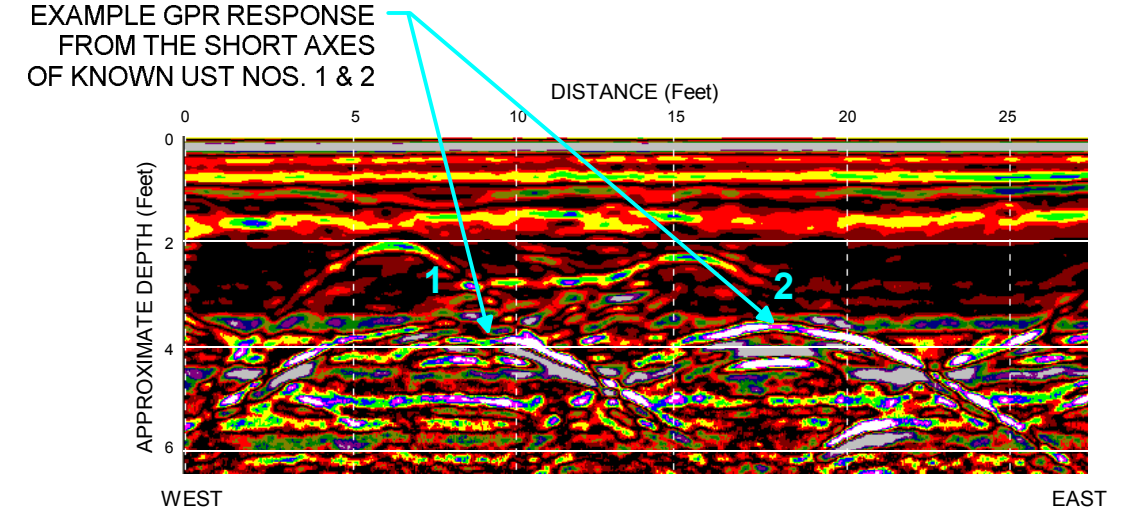
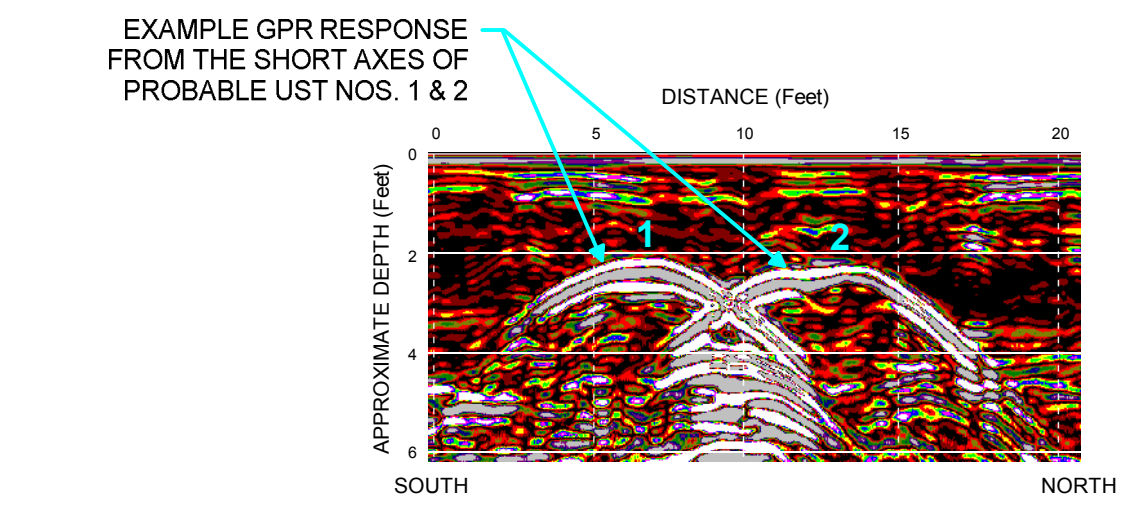
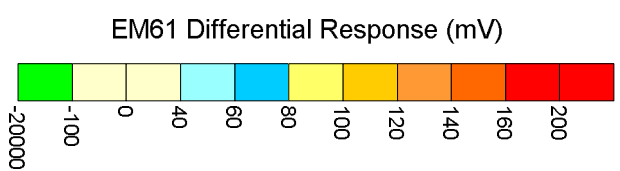
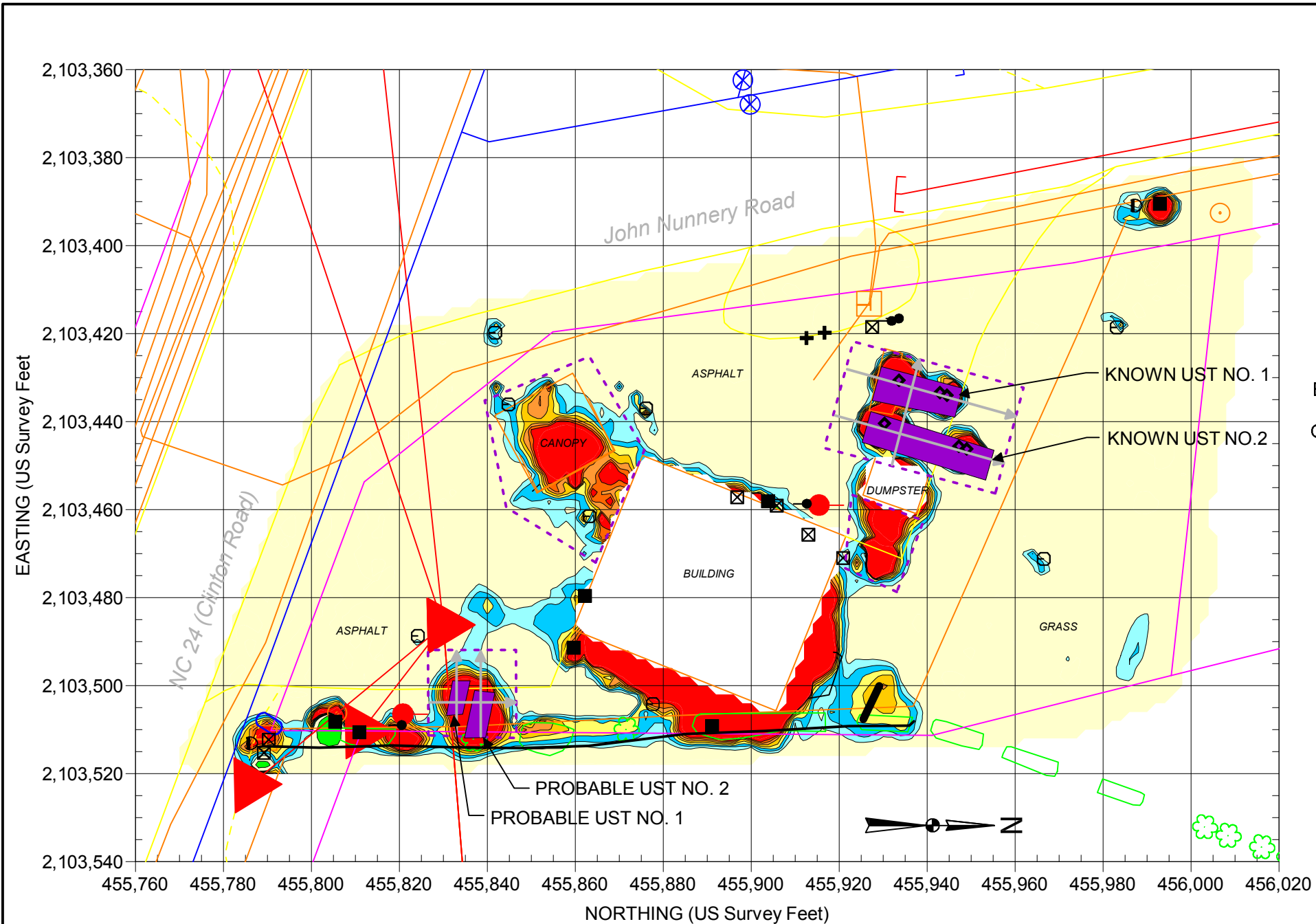


EXPLANATION	
	SIGN
	UTILITY POLE
	GUY WIRE
	MISCELLANEOUS METALLIC OBJECT
	UTILITY MANHOLE, METER, BOX, ETC.
	LIGHT POLE
	MONITORING WELL
	UST LID
	DOT PROPOSED RW
	DOT PROPOSED UTILITY EASEMENT
	PROPERTY LINE
	UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT (VARIOUS COLORS))
	EXAMPLE GPR LINE LOCATION
	GPR SURVEY AREA
	LOCATION OF KNOWN OR SUSPECT USTS MARKED ON SITE

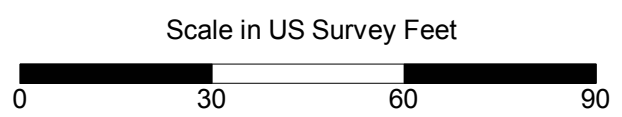


REF.: NCDOT FILE: r2303b_rdy_psh5.dgn
(FOR SOME SITE FEATURES)

	STATE PROJECT R-2303B CUMBERLAND-SAMPSON COUNTIES, NC NC DEPARTMENT OF TRANSPORTATION	PARCEL 4 EM61 EARLY TIME GATE RESPONSE
	PROJECT NO. 09210013.41	FIGURE 3



EXPLANATION	
	SIGN
	UTILITY POLE
	GUY WIRE
	MISCELLANEOUS METALLIC OBJECT
	UTILITY MANHOLE, METER, BOX, ETC.
	LIGHT POLE
	MONITORING WELL
	UST LID
	DOT PROPOSED RW
	DOT PROPOSED UTILITY EASEMENT
	PROPERTY LINE
	UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT (VARIOUS COLORS))
	EXAMPLE GPR LINE LOCATION
	GPR SURVEY AREA
	LOCATION OF KNOWN OR SUSPECT USTS MARKED ON SITE

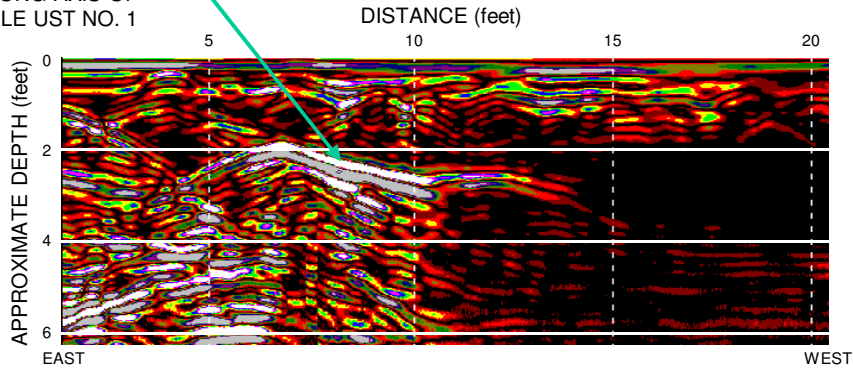


Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as drums and tanks. The EM data were collected on May 26, 2011, 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 3200 Zone, using the NAD 1983 datum. GPR data were acquired on June 7, 2011, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

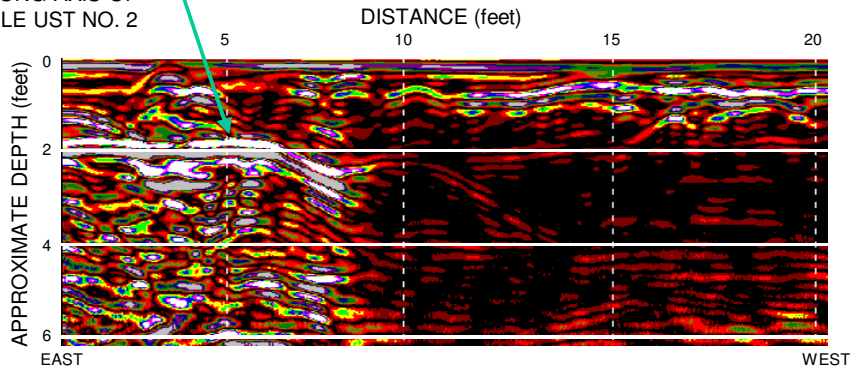
REF.: NCDOT FILE: r2303b_rdy_psh5.dgn (FOR SOME SITE FEATURES)

	STATE PROJECT R-2303B CUMBERLAND-SAMPSON COUNTIES, NC NC DEPARTMENT OF TRANSPORTATION PROJECT NO. 09210013.41	PARCEL 4 EM61 DIFFERENTIAL RESPONSE
	FIGURE 4	

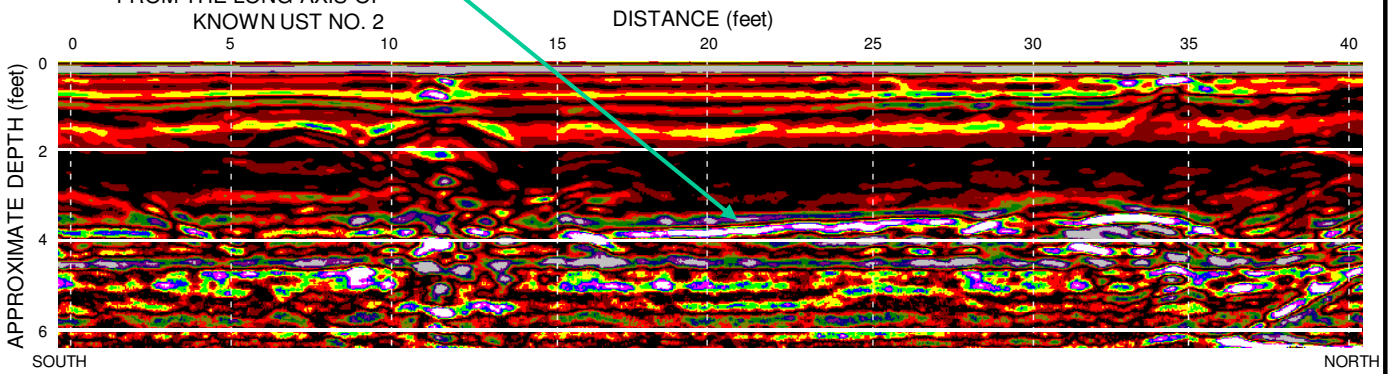
EXAMPLE GPR RESPONSE FROM THE LONG AXIS OF PROBABLE UST NO. 1



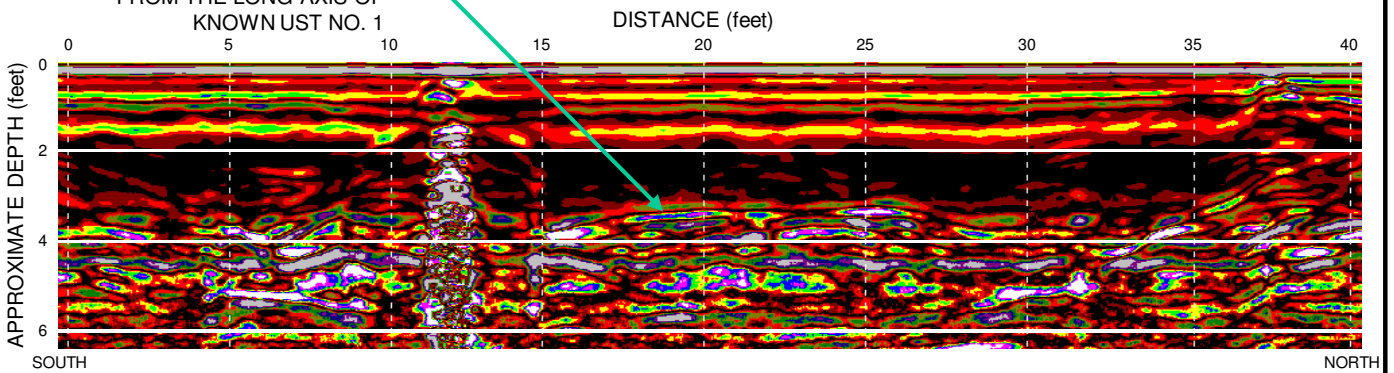
EXAMPLE GPR RESPONSE FROM THE LONG AXIS OF PROBABLE UST NO. 2



EXAMPLE GPR RESPONSE FROM THE LONG AXIS OF KNOWN UST NO. 2



EXAMPLE GPR RESPONSE FROM THE LONG AXIS OF KNOWN UST NO. 1



STATE PROJECT R-2303B
NC DEPT. OF TRANSPORTATION
CUMBERLAND-SAMPSON COS., NC
PROJECT NO. 09210013.41

PARCEL 4
ADDITIONAL EXAMPLE
GPR IMAGES

FIGURE 5



Parcel 4 – Leiburn R. Strickland Property, looking south. Photo shows approximate marked location of the two known USTs on the northwest side of the property.



Parcel 4 – Leiburn R. Strickland Property, looking north. Photo shows approximate marked location of the two probable USTs on the southeast side of the property.

APPENDIX D
NCDENR UST FILE REVIEW INFORMATION

TABLE 7

UST CLOSURE SOIL ANALYTICAL DATA

STRICKLANDS #3
9007 HIGHWAY 24
AUTRYVILLE, NORTH CAROLINA
ATC PROJECT NO. 45.03451.0048
NCDENR FACILITY ID NO: 0-003898

Sample ID	Date	OVA Reading (ppm)	Sample Location	Contaminants	Sample Depth (ft)	TPH - GRO	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	BTEX	MTBE	NAPHTHALENE	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aro
SW-1	1/17/06	4.1	Sidewall		3-4	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-2	1/17/06	586	Sidewall	Gasoline	3-4	370	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-3	1/17/06	6.1	Sidewall	Gasoline	3-4	<3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-4	1/17/06	5.7	Sidewall	Gasoline	3-4	<0.085	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-5	1/17/06	16.3	Sidewall	Gasoline	3-4	<0.087	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-6	01/17/06	10.6	Sidewall	Gasoline	3-4	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-7	01/17/06	4.0	Sidewall	Gasoline	3-4	<0.088	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-8	01/17/06	3.2	Sidewall	Gasoline	3-4	<0.082	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-9	01/17/06	2.6	Sidewall	Gasoline	3-4	<0.081	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-10	01/17/06	1.3	Sidewall	Gasoline	3-4	<0.077	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-1	01/17/06	1,468	Stockpile	Gasoline	--	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-2	01/17/06	1,663	Stockpile	Gasoline	--	380	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-3	02/09/06	118	Stockpile	Gasoline	--	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-4	02/09/06	158	Stockpile	Gasoline	--	0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OE-SW-11	02/09/06	10.5	Sidewall	Gasoline	4	NA	<0.0042	<0.0042	<0.0042	<0.0042	ND	<0.0042	<0.0042	30	<4.4	<1.3
D-1	02/13/06	474	Dispensers	Gasoline	2	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-2	02/13/06	38.9	Dispensers	Gasoline	2	<0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D-OE-BOTTOM	02/13/06	5.8	Dispensers	Gasoline	3.5	NA	<0.0047	0.0084	<0.0047	<0.0047	0.0084	<0.0047	<0.0047	34	<4.9	<1.5
SP-5	02/13/06	98.2	Stockpile	Gasoline	--	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-6	02/13/06	79.8	Stockpile	Gasoline	--	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PP-1	02/13/06	1.0	Product Line	Gasoline	3	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PP-2	02/13/06	1.0	Product Line	Gasoline	3	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OE-SW-1	02/13/06	10.6	Product Line	Gasoline	2	NA	0.015	0.046	0.067	0.345	0.473	0.027	0.033	34	7.8	6.5
OE-SW-2	02/13/06	3.1	Product Line	Gasoline	3	NA	<0.0053	<0.0053	<0.0053	<0.00532	ND	<0.0053	<0.0053	33	<4.7	<1.4
OE-SW-3	02/13/06	669	Product Line	Gasoline	4	NA	<0.480	<0.480	0.880	7.9	8.780	<0.480	5.8	64	140	86
OE-SW-4	02/13/06	2,829	Product Line	Gasoline	5	NA	<2.5	6.7	57	346	409.7	<2.5	66	220	2,300	1,700
OE-BOTTOM	02/13/06	2,863	Product Line	Gasoline	6	NA	<2.2	3.6	49	313	365.6	<2.2	58	<880	3,400	2,200
NCDENR Action Level :						10	--	--	--	--	--	--	--	--	--	--
Soil-to-Groundwater MSCC :						--	0.0056	7	0.24	5	--	0.92	0.58	72	3,255	34
Residential MSCC :						--	22	3,200	1,560	32,000	--	156	63	939	9,386	469
Industrial/ Commercial MSCC :						--	200	82,000	40,000	200,000	--	4,088	1,635	24,528	245,280	12,264

Notes:

1. TPH = Total petroleum hydrocarbons.

2. Concentrations reported in milligrams per kilogram (mg/kg).

3. "<" = not detected at or above the laboratory detection limit.

4. ppm = parts per million.

5. MSCC = Maximum Soil Contaminant Concentrations.

6. **Bold** indicates concentrations above NCDENR Action Level or MSCCs.

TABLE 8

SOIL ANALYTICAL DATA

STRICKLANDS #3
 9007 HIGHWAY 24
 AUTRYVILLE, NORTH CAROLINA
 ATC PROJECT NO. 45.03451.0048
 NCDENR FACILITY ID NO: 0-003898

BORING I.D.	DATE SAMPLED	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	Naphthalene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics
MW-1 (0-4)	4/13/2006	<0.0057	<0.0057	0.010	0.0098	<0.0057	0.0079	<10	<5.2	<1.6
MW-1 (4-8)	4/13/2006	<0.200	0.930	<0.200	6.6	<0.200	2	9.1	70	51
SB-1 (2-4')	12/12/2006	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	NA	<10.0	<5.2	<1.6
SB-2 (2-4')	12/12/2006	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	NA	<11.0	<5.3	<1.8
SB-3 (0-2')	12/12/2006	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	NA	<10.0	<5.1	<1.6
SB-5 (0-2')	12/12/2006	<0.0053	0.015	0.063	0.073	<0.0053	NA	<11.0	<5.3	<1.8
SB-6 (2-4')	12/12/2006	<0.0053	<0.0053	<0.0053	<0.0052	<0.0053	NA	<11.0	<5.3	<1.7
SB-7 (2-4')	12/12/2006	<0.0051	<0.0051	<0.0051	<0.005	<0.0051	NA	<10.0	<5.1	<1.5
SB-8 (2-4')	12/12/2006	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	NA	<11.0	<5.3	<1.7
SB-9 (2-4')	12/12/2006	<0.0051	<0.0051	<0.0051	<0.005	<0.0051	NA	<10.0	<5.1	<1.9
Soil-to-Groundwater MSCCs		0.0056	5	7.3	5	0.92	0.58	72	3,255	34
Residential MSCCs		18	1,560	3,200	3,129	213	313	939	9,386	469
Industrial/Commercial		164	40,000	82,000	81,760	1,908	8,176.00	24,528	245,280	12,264

Notes:

- All measurements are in milligrams per kilogram (mg/kg).
- MSCC = Maximum Soil Contaminant Concentration established by NCDENR.
- mg/kg = milligrams per kilogram
- ND or "<" = None detected above method detection limit.
- NE = Not established.
- NA = Not analyzed.
- Values in **BOLD** indicate concentrations above Soil-to-Groundwater MSCCs

TABLE 7

HISTORICAL GROUNDWATER ANALYTICAL DATA

STRICKLANDS #3
9007 HIGHWAY 24
AUTRYVILLE, NORTH CAROLINA
ATC PROJECT NO. 45.03451.0048

Page 1

ANALYTICAL:		EPA METHOD 624/6200B							MADEP VPH			EPA METHOD 3030C
BORING I.D.	DATE SAMPLED:	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Isopropyl-ether (IPE)	Naphthalene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
MW-1	4/14/2006	<10	87	840	5,600	<50	<50	<50	<4000	20,000	13,000	46.4
	2/28/2007	<10	<50	130	860	<20	<50	<50	540	9,400	7,200	12.9
	8/30/2007	<1	78	NA	NA	<5	<5	<5	1400	27,000	16,000	69.6
	1/14/2008	<20	110	1,600	9,300	<20	<20	<100	<2000	49,000	17,000	72.8
	9/5/2008	<0.1	2	110	560	<0.2	<0.1	<0.1	240	1,000	10,000	25.9
	3/25/2009	<1	<1	21	120	<1	<1	45	99	4,700	6,900	22.7
	9/3/2009	<0.1	0.57	52	251	<0.2	<0.1	<0.1	<300	7,000	6,800	24.9
	3/19/2010	<0.1	<0.1	1.3	7.8	<0.2	<0.1	<0.1	NA	NA	NA	32.8
	9/23/2010	<1	3	170	1,070	<2	<1	260	NA	NA	NA	71.3
3/25/2011	<0.1	0.32	50	218	<0.2	<0.1	<0.1	NA	NA	NA	<10	
MW-2	6/7/2006	<1	<5	80	157	<5	<5	<5	590	3,100	2,100	11.9
	2/28/2007	<1	<5	<5	<5	<5	<5	<5	<200	900	670	11.7
	8/30/2007	<1	<5	28	93	<5	<5	<5	490	2,000	1,300	<10
	1/14/2008	<1	3.3	68	189	<1	<1	<5	340	1,700	900	15.5
	9/5/2008	<0.1	<0.1	0.31	1.44	<0.2	<0.1	<0.1	<200	30	150	<10
	3/25/2009	<1	<1	<1	<1	<1	<1	<1	<30	<35	<10	23.9
	9/3/2009	<0.1	<0.2	0.39	0.36	<0.2	<0.1	1	<30	<35	14	15.1
	3/19/2010	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	35.3
	9/23/2010	<0.1	<0.1	1.50	4.43	<0.2	<0.1	<0.1	NA	NA	NA	18.1
3/25/2011	<0.1	<0.2	<0.2	<0.4	<0.2	<0.1	<0.1	NA	NA	NA	<10	
MW-3	6/7/2006	7.8	920	370	1,000	<5	<5	<5	2,300	1,800	560	104
	2/28/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	29.8
	8/30/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	37.5
	1/14/2008	<1	<1	<1	<1	<1	<1	<5	<200	<100	<30	35.3
	9/5/2008	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<200	<70	<30	19.5
	3/25/2009	<1	<1	<1	<1	<1	<1	<1	<30	<35	<10	12
	9/3/2009	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<30	<35	<10	17.7
	3/19/2010	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	<10
	9/23/2010	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	NA	NA	NA	69.4
3/25/2011	<0.1	<0.2	<0.2	<0.4	<0.2	<0.1	<0.1	NA	NA	NA	39.4	
MW-4	6/7/2006	<1	<5	<5	5.3	<5	<5	<5	<200	<100	<30	136
	2/28/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	<10.0
	8/30/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	<10
	1/14/2008	<1	<1	<1	<1	<1	<1	<5	<200	<100	<30	10.3
	9/5/2008	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<200	<70	<30	21.2
	3/25/2009	<1	<1	<1	<1	<1	<1	<1	<30	<35	<10	19.3
	9/3/2009	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<30	<35	<10	27.5
	3/19/2010	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	41.7
	9/23/2010	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	NA	NA	NA	74.6
3/25/2011	<0.1	<0.2	<0.2	<0.4	<0.2	<0.1	<0.1	NA	NA	NA	60.7	
2L GW Standards:		1	600	600	500	20	70	6	420	4,200	210	15
GCLs:		5,000	260,000	84,500	85,500	20,000	70,000	6,000	NE	NE	NE	15,000

Notes:

- All measurements are in micrograms per liter (ug/L)
- << or ND = None detected above method detection limit.
- NC 2L GW Standard = Title 15A NCAC 2L 0202 Groundwater Standard
- GCL = Gross Contaminant Level established by NCDENR.
- NE = Not established.
- NA = Not analyzed.
- MTBE = Methyl tertiary butyl ether
- Values in **BOLD** indicate levels above 2L Groundwater Standards.
- September 23, 2010 data analyzed by Standard Method 6200B.

TABLE 7 (contd)

HISTORICAL GROUNDWATER ANALYTICAL DATA

STRICKLANDS #3
9007 HIGHWAY 24
AUTRYVILLE, NORTH CAROLINA
ATC PROJECT NO. 45.03451.0048

Page 2

ANALYTICAL:		EPA METHOD 624/6200B							MADEP VPH			EPA METHOD 3030C
BORING I.D.	DATE SAMPLED:	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Isopropyl-ether (IPE)	Naphthalene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
MW-5	2/28/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	76.8
	8/30/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	71.7
	1/14/2008	<1	1.9	<1	<1	<1	<1	<5	<200	<100	<30	115
	9/5/2008	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<200	<70	<30	18.9
	3/25/2009	<1	<1	<1	<1	<1	<1	<1	<30	<35	<10	37
	9/3/2009	<0.1	<0.2	0.41	1.83	<0.2	<0.1	<0.1	<30	<35	<10	22.5
	3/19/2010	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	24.8
	9/23/2010	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	NA	NA	NA	45.9
3/25/2011	<0.1	<0.2	<0.2	<0.4	<0.2	<0.1	<0.1	NA	NA	NA	24	
MW-6	2/28/2007	<1	<5	<5	<5	<5	<5	<5	220	<100	<30	359
	8/30/2008	<1	<5	<5	<5	<5	<5	<5	<200	110	76	79
	1/14/2008	<1	<1	<1	<1	<1	<1	<5	<200	<100	<30	47.3
	9/5/2008	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<200	<70	<30	21.1
	3/25/2009	<1	<1	<1	<1	<1	<1	<1	<30	<35	<10	17.4
	9/3/2009	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<30	<35	<10	20.5
	3/19/2010	<0.1	<0.1	<0.1	11.3	<0.2	<0.1	1.9	NA	NA	NA	15.9
	9/23/2010	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	NA	NA	NA	29.3
3/25/2011	<0.1	<0.2	<0.2	<0.4	<0.2	<0.1	<0.1	NA	NA	NA	16.3	
MW-7	2/28/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	359
	8/30/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	37	92.5
	1/14/2008	<1	<1	<1	<1	<1	<1	<5	<200	<100	<30	81.8
	9/5/2008	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<200	<70	<30	56.2
	3/25/2009	<1	<1	<1	<1	<1	<1	<1	<30	<35	<10	81.5
	9/3/2009	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<30	<35	<10	27.7
	3/19/2010	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	35.1
	3/19/2010	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	35.1
9/23/2010	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	NA	NA	NA	49.4	
3/25/2011	<0.1	<0.2	<0.2	<0.4	<0.2	<0.1	<0.1	NA	NA	NA	45.7	
MW-8	2/28/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	32.7
	8/30/2007	<1	<5	<5	<5	<5	<5	<5	<200	<100	<30	12.1
	1/14/2008	<1	<1	<1	<1	<1	<1	<5	<200	<100	<30	82.9
	9/5/2008	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<200	<70	<30	26.9
	3/25/2009	<1	<1	<1	<1	<1	<1	<1	<30	<35	<10	17.8
	9/3/2009	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<30	<35	<10	14.3
	3/19/2010	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	15.6
	9/23/2010	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	NA	NA	NA	25.9
3/25/2011	<0.1	<0.2	<0.2	<0.4	<0.2	<0.1	<0.1	NA	NA	NA	12.9	
2L GW Standards:		1	600	600	500	20	70	6	420	4,200	210	15
GCLs:		5,000	260,000	84,500	85,500	20,000	70,000	6,000	NE	NE	NE	15,000

Notes:

- All measurements are in micrograms per liter (ug/L).
- < or ND = None detected above method detection limit.
- NC 2L GW Standard = Title 15A NCAC 2L. 0202 Groundwater Standard
- GCL = Gross Contaminant Level established by NCDENR.
- NE = Not established.
- NA = Not analyzed.
- MTBE = Methyl tertiary butyl ether
- Values in BOLD indicate levels above 2L Groundwater Standards.
- September 23, 2010 data analyzed by Standard Method 6200B.

TABLE 7 (contd)

HISTORICAL GROUNDWATER ANALYTICAL DATA

STRICKLANDS #3
9007 HIGHWAY 24
AUTRYVILLE, NORTH CAROLINA
ATC PROJECT NO. 45.03451.0048

Page 3

ANALYTICAL:		EPA METHOD 624/6200B							MADEP VPH			EPA METHOD 3030C
BORING I.D.	DATE SAMPLED:	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Isopropyl-ether (IPE)	Naphthalene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
MW-1D	2/28/2007	<1	240	110	740	<5	<5	<5	580	2,400	1,000	<10.0
	8/30/2007	<1	<5	<5	8.4	<5	<5	<5	<200	<100	30	<10
	1/14/2008	<1	<1	<1	<1	<1	<1	<5	<200	<100	<30	<10
	9/5/2008	<0.1	0.19	1.1	0.25	<0.2	<0.1	<0.1	<200	<70	<30	<10
	3/24/2009	<1	<1	<1	<1	<1	<1	<1	<30	<35	11	<10
	9/3/2009	<0.1	0.64	3.4	5.7	<0.2	<0.1	1.9	<30	37	27	12
	3/19/2010	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	<10
	9/23/2010	<0.1	<0.1	<0.1	0.16	<0.2	<0.1	1.8	NA	NA	NA	<10
	3/25/2011	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	NA	NA	NA	<10
2L GW Standards:		1	600	600	500	20	70	6	420	4,200	210	15
GCLs:		5,000	260,000	84,500	85,500	20,000	70,000	6,000	NE	NE	NE	15,000

Notes:

- All measurements are in micrograms per liter (ug/L)
- "<" or ND = None detected above method detection limit.
- NC 2L GW Standard = Title 15A NCAC 2L .0202 Groundwater Standard
- GCL = Gross Contaminant Level established by NCDENR.
- NE = Not established.
- NA = Not analyzed.
- MTBE = Methyl tertiary butyl ether
- Values in **BOLD** indicate levels above 2L Groundwater Standards.
- September 23, 2010 data analyzed by Standard Method 6200B.

TABLE 9

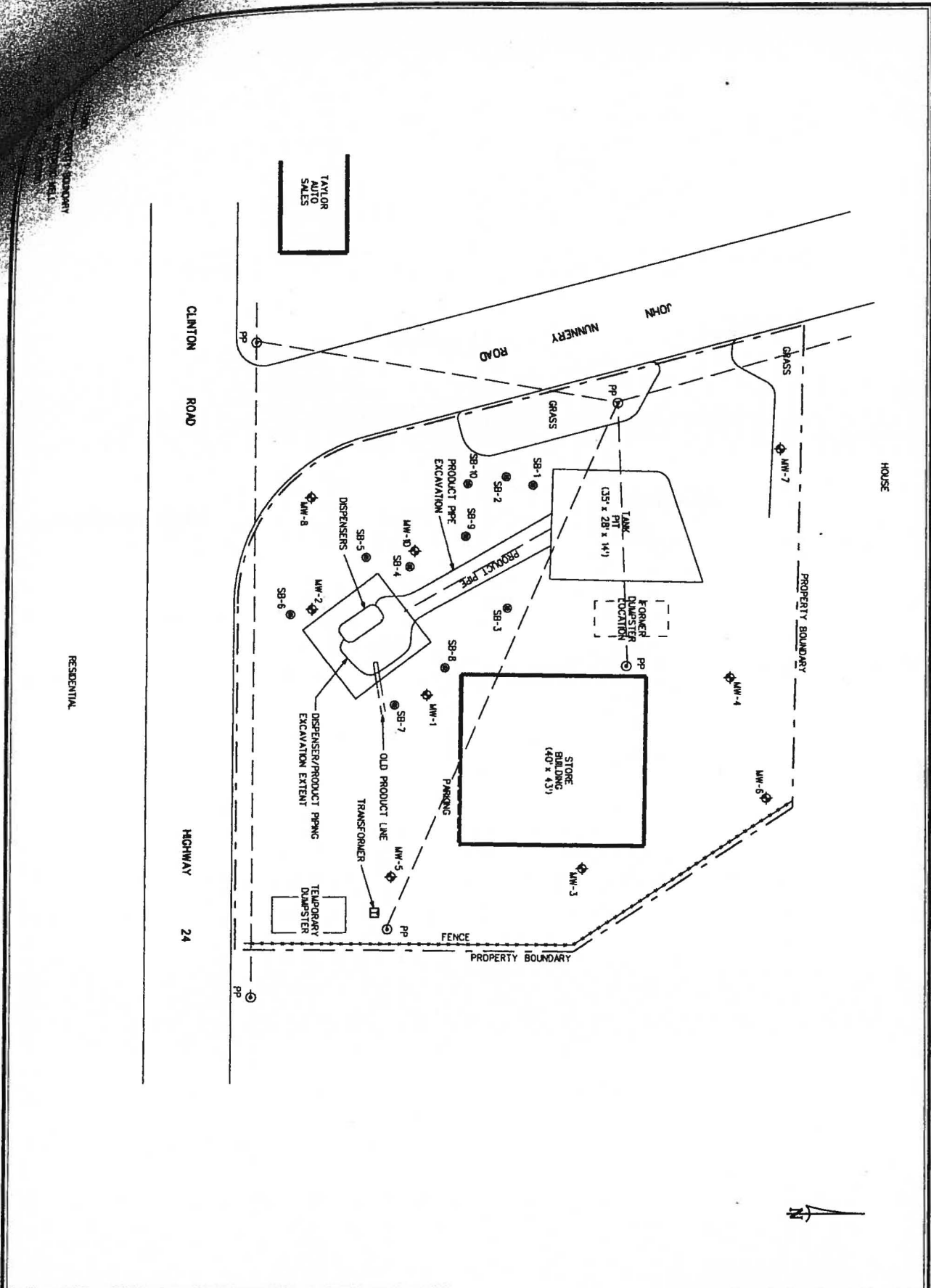
HISTORICAL GROUNDWATER ANALYTICAL DATA

STRICKLANDS #3
9007 HIGHWAY 24
AUTRYVILLE, NORTH CAROLINA
ATC PROJECT NO. 45.03451.0048
NCDENR FACILITY ID NO: 0-003898

ANALYTICAL:		EPA METHOD 624								MADEP VPH & MADEP EPH			EPA METHOD 3030C
BORING I.D.	DATE SAMPLED:	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	Isopropyl-ether (IPE)	Naphthalene	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	Lead
MW-1	4/14/2006	<10	87	840	5,600	6,527	<50	<50	<50	<4000	20,000	13,000	46.4
	2/28/2007	<10	<50	130	860	990	<20	<50	<50	540	9,400	7,200	12.9
MW-2	6/7/2006	<1	<5	80	157	237	<5	<5	<5	590	3,100	2,100	11.9
	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	<200	900	670	11.7
MW-3	6/7/2006	7.8	920	370	1,000	2,298	<5	<5	<5	2,300	1,800	560	104
	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	<200	<100	<30	29.8
MW-4	6/7/2006	<1	<5	<5	5.3	5.3	<5	<5	<5	<200	<100	<30	136
	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	<200	<100	<30	<10.0
MW-5	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	<200	<100	<30	76.8
MW-6	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	220	<100	<30	359
MW-7	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	<200	<100	<30	359
MW-8	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	<200	<100	<30	32.7
MW-1D	2/28/2007	<1	240	110	740	1,090	<5	<5	<5	580	2,400	1,000	<10.0
PW-4	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	NA	NA	NA	NA
PW-13	2/28/2007	<1	<5	<5	<5	ND	<5	<5	<5	NA	NA	NA	NA
2L GW Standards:		1	1,000	550	530	NE	200	70	21	420	4,200	210	15
GCLs:		5,000	257,500	84,500	87,500	NE	200,000	70,000	15,500	NE	NE	NE	15,000

Notes:

- All measurements are in micrograms per liter (ug/L)
- "<" or ND = None detected above method detection limit.
- NC 2L GW Standard = Title 15A NCAC 2L .0202 Groundwater Standard
- GCL = Gross Contaminant Level established by NCDENR.
- NE = Not established.
- NA = Not analyzed.
- MTBE = Methyl tertiary butyl ether
- Values in BOLD indicate levels above 2L Groundwater Standards.



- NOTES:
1. MW-1 WAS INSTALLED ON 04/13/06.
 2. MW-1 WAS SAMPLED ON 04/14/06.
 3. SB-1 THROUGH SB-10 WERE ADVANCED ON 12/12/06.
 4. MW-2 THROUGH MW-4 WERE SAMPLED ON 6/7/06.
 5. MW-5 THROUGH MW-7 WERE INSTALLED ON 12/12/06.
 6. MW-8 AND MW-10 WERE INSTALLED ON 02/16/07.

TITLE FIGURE 2
 SITE MAP
 STRICKLANDS #3
 9007 HIGHWAY 24
 AUTRYVILLE, NORTH CAROLINA

CAD FILE 1252925.DGN	TYPE CODE	PREP BY JB	REV. BY KN
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VATC
 ASSOCIATES INC.

Raleigh, North Carolina 27604 (919)871-0999 FAX (919)871-0335

SCALE 1" = 20'	DATE 03-28-2007	PROJECT NO. 45.03451.0048
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UNSATURATED WATER SUPPLY WELL & IDENTIFICATION
 PROPERTY



NOTES:

TITLE FIGURE 3
 SITE VICINITY MAP
 STRICKLANDS #3
 9007 HIGHWAY 24
 AUTRYVILLE, NORTH CAROLINA

CAD FILE	TITLE CODE	PREP. BY	REV. BY
1252925.DGN		JB	KN

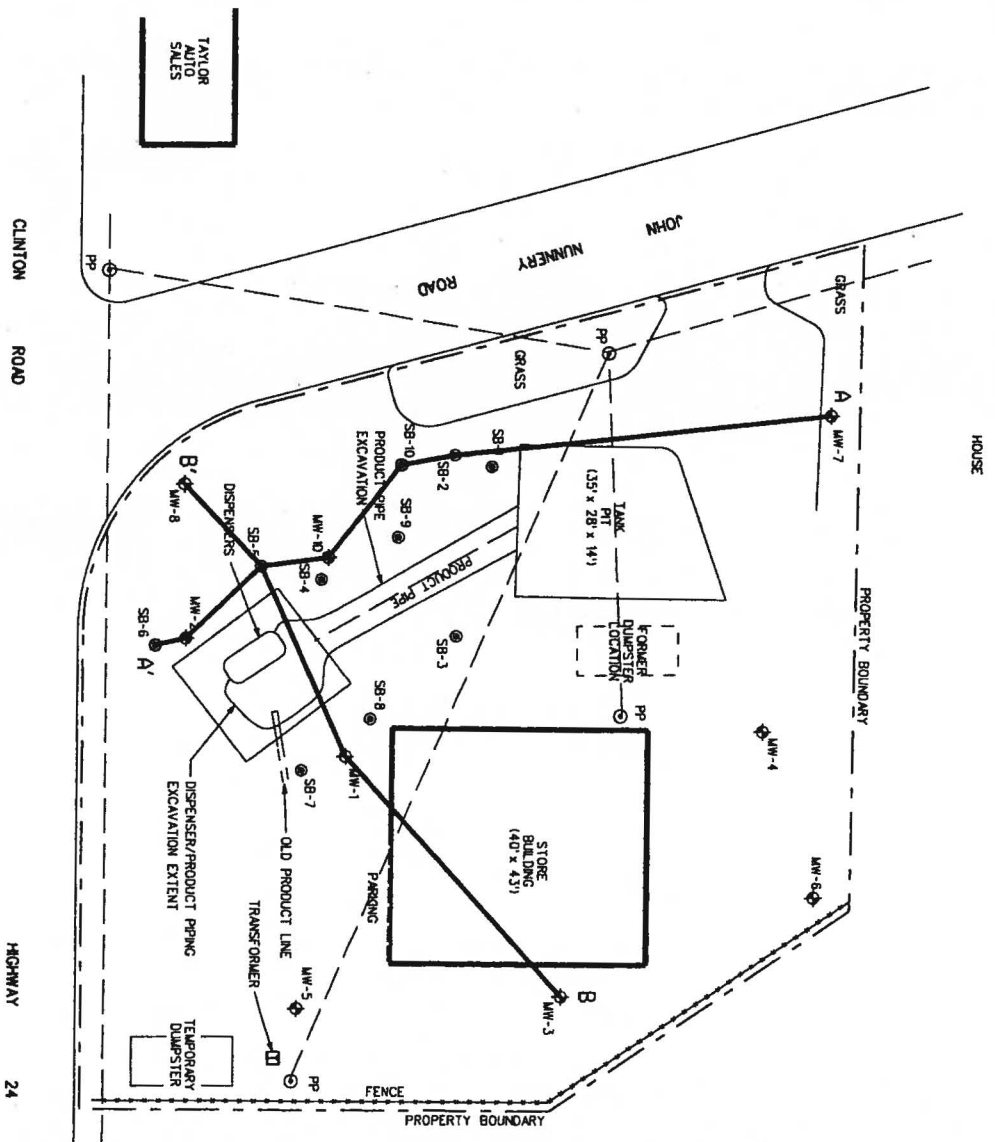


VATC
ASSOCIATES INC.

Raleigh, North Carolina 27604 (919) 871-0020 FAX (919) 871-0025

SCALE	DATE	PROJECT NO.
1" = 300'	03-28-2007	45.03451.0048

LEGEND
 PROPERTY BOUNDARY
 MONITORING WELL
 SAND SPRING



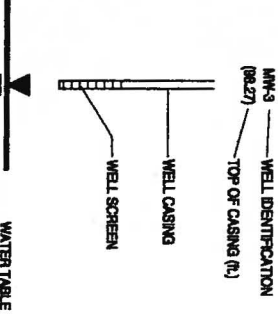
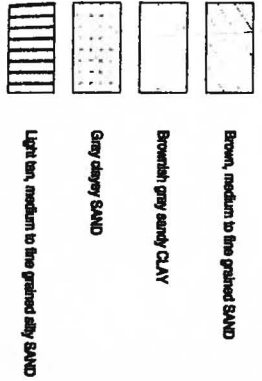
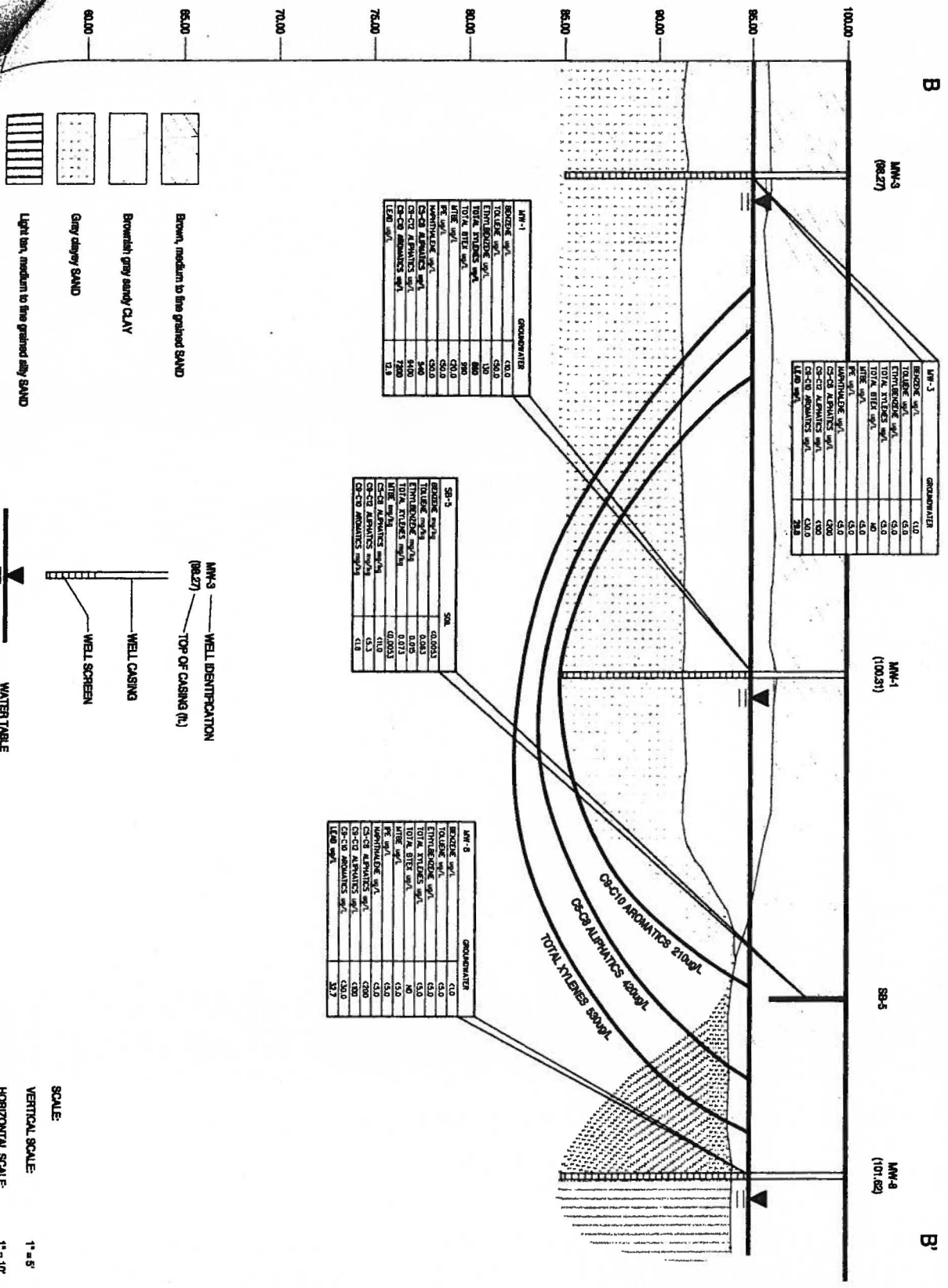
- NOTES:
1. MW-1 WAS INSTALLED ON 04/13/06.
 2. SB-1 THROUGH SB-10 WERE ADVANCED ON 12/12/06.
 3. MW-5 THROUGH MW-7 WERE INSTALLED ON 12/12/06.
 4. MW-8 AND MW-10 WERE INSTALLED ON 02/16/07.

TITLE **FIGURE 5**
 GEOLOGIC CROSS-SECTION MAP (A-A', B-B')
 STRICKLANDS #3
 9007 HIGHWAY 24
 AUTRYVILLE, NORTH CAROLINA



Raleigh, North Carolina 27604 (919)871-0599 FAX (919)871-0335

CAD FILE 1252925.DGN	TYPE CODE	PREP BY JJB	REV. BY KN	SCALE 1" = 20'	DATE 03-28-2007	PROJECT NO. 45.03451.0048
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SCALE:
 VERTICAL SCALE: 1" = 5'
 HORIZONTAL SCALE: 1" = 10'

NOTES:
 1. SB-2 THROUGH SB-9 WERE SAMPLED ON 12/12/2006.
 2. MW-1, MW-3, AND MW-8 WERE SAMPLED ON 02/28/2007.

TITLE FIGURE 7
 GEOLOGIC CROSS-SECTION B - B'
 STRICKLANDS *3
 9007 HIGHWAY 24
 AUTRYVILLE, NORTH CAROLINA

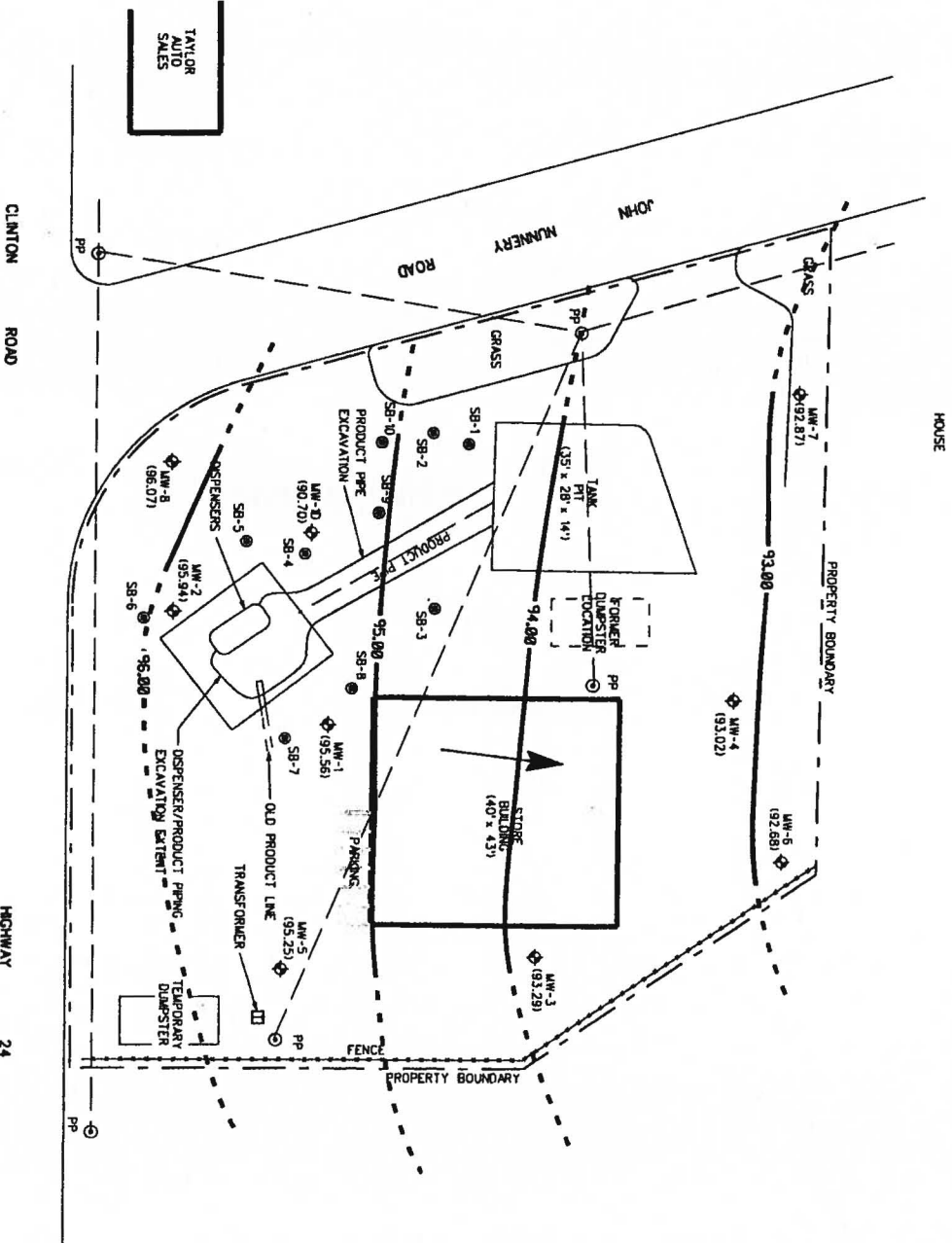


Raleigh, North Carolina 27604 (919)871-0899 FAX (919)871-0335

CAD FILE 1252925.DGN	TYPE CODE	PREP. BY JB	REV. BY	SCALE AS SHOWN	DATE 03-28-2007	PROJECT NO. 45.03451.0048
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LEGEND:

- PROPERTY BOUNDARY
- ◆ MONITORING WELL
- SOIL BORING
- GROUNDWATER ELEVATION CONTOUR (F&J)
- REVERSED GROUNDWATER FLOW DIRECTION



- NOTES:
1. MW-1 WAS INSTALLED ON 04/13/06
 2. SB-1 THROUGH SB-10 WERE ADVANCED ON 12/12/06.
 3. MW-5 THROUGH MW-7 WERE INSTALLED ON 12/12/06.
 4. MW-8 AND MW-10 WERE INSTALLED ON 02/16/07.
 5. MW-10 WAS NOT USED IN GROUNDWATER ELEVATION CONTOUR MAP
 6. DTW MEASUREMENTS WERE TAKEN ON 02/28/07

TITLE **FIGURE 8**
 GROUNDWATER ELEVATION CONTOUR MAP
 STRICKLANDS #3
 9007 HIGHWAY 24
 AUTRYVILLE, NORTH CAROLINA

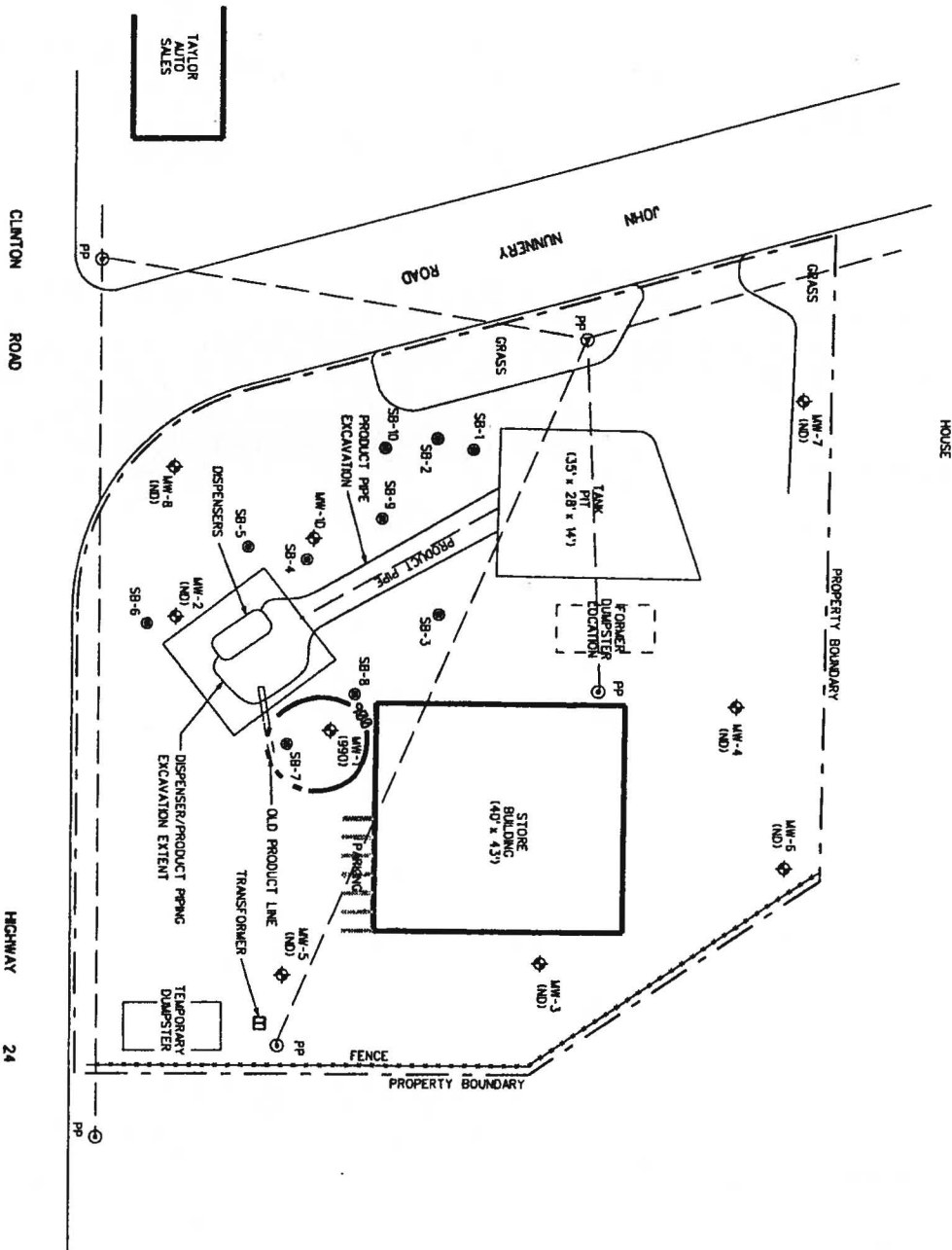
CAD FILE	TITLE CODE	PLP'D BY	REV. BY
1252975.DGN		JB	KN

VATC
ASSOCIATED INC

Raleigh, North Carolina 27604 (919)871-0899 FAX (919)871-0335

SCALE	DATE	PROJECT NO.
1" = 20'	03-28-2007	45.03451.004H


LEGEND:
 - - - PROPERTY BOUNDARY
 ◆ MONITORING WELL
 ● SOIL BORING
 --- DISSOLVED TOTAL BTEX ISOCONCENTRATION CONTOUR (ug/L)
 --- DISSOLVED TOTAL BTEX CONCENTRATION (ug/L)
 --- NOT DETECTED



NOTES:
 1. MW-1 WAS INSTALLED ON 04/13/06.
 2. SB-1 THROUGH SB-10 WERE ADVANCED ON 12/12/06.
 3. MW-3 THROUGH MW-7 WERE INSTALLED ON 12/12/06.
 4. MW-8 AND MW-10 WERE INSTALLED ON 02/16/07.
 5. GROUNDWATER SAMPLES WERE COLLECTED ON 02/28/07.
 6. MW-8 AND MW-10 WERE INSTALLED ON 02/16/07.
 7. GROUNDWATER SAMPLES WERE COLLECTED ON 02/28/07.
 8. MW-10 WAS NOT USED TO CREATE ISOCONCENTRATION CONTOUR MAP

TITLE **FIGURE 9**
 DISSOLVED TOTAL BTEX ISOCONCENTRATION CONTOUR MAP
 STRICKLANDS #3
 9007 HIGHWAY 24
 AUTRYVILLE, NORTH CAROLINA

CAD FILE 1252925.DGN	TYPE CODE	PREP. BY JB	REV. BY KN
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VATC
ASSOCIATES INC.

Raleigh, North Carolina 27604 (919)871-0999 FAX (919)871-0335

SCALE 1" = 20'	DATE 03-28-2007	PROJECT NO. 45.03451.0048
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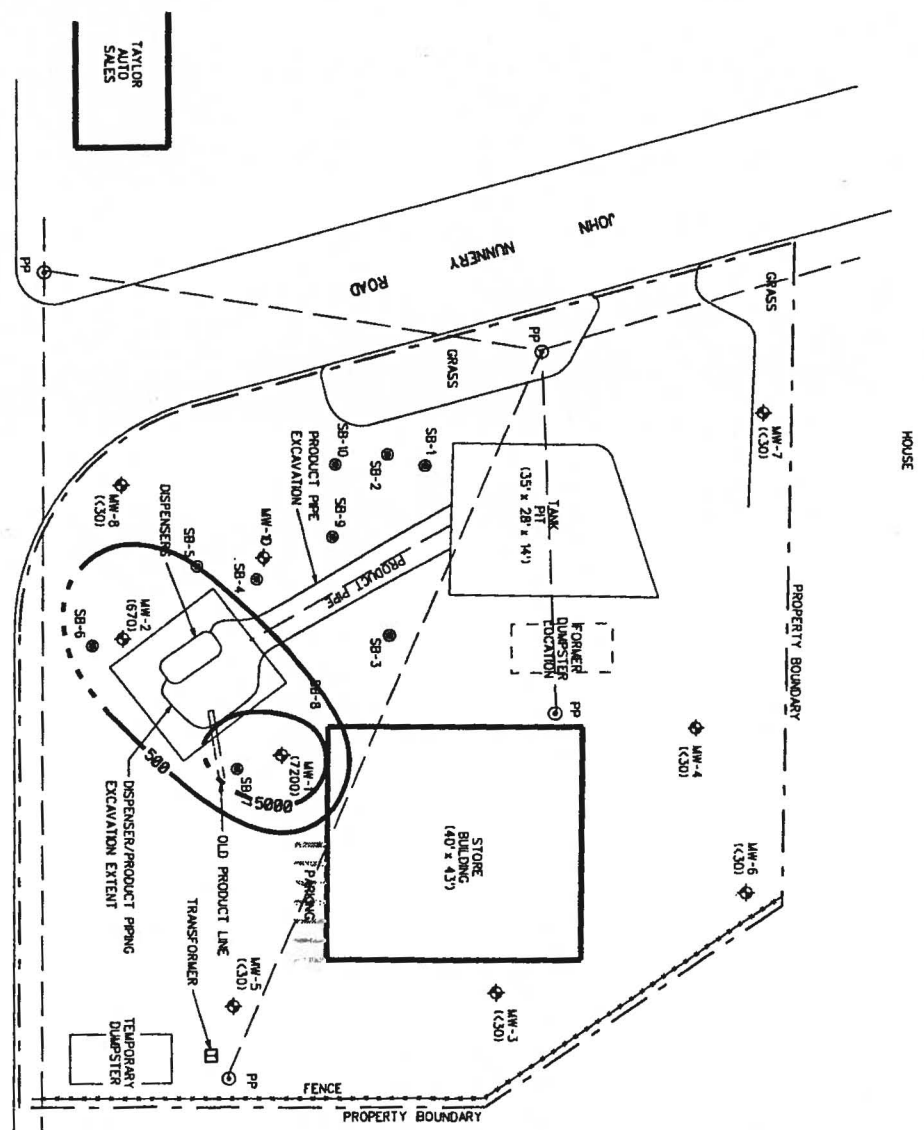
LEGEND:
 - - - PROPERTY BOUNDARY
 ○ MONITORING WELL
 ● SOIL BORING
 --- DISSOLVED C9-C10 AROMATICS ISOCONCENTRATION CONTOUR (ug/L)
 --- DISSOLVED C9-C10 AROMATICS CONCENTRATION (ug/L)
 --- BELOW LABORATORY DETECTION LIMITS

LEGEND:

CLINTON ROAD

HIGHWAY 24

RESIDENTIAL



- NOTES:
1. MW-1 WAS INSTALLED ON 04/13/06.
 2. SB-1 THROUGH SB-10 WERE ADVANCED ON 12/12/06.
 3. MW-5 THROUGH MW-7 WERE INSTALLED ON 12/12/06.
 4. MW-8 AND MW-10 WERE INSTALLED ON 02/16/07.
 5. GROUNDWATER SAMPLES WERE COLLECTED ON 02/28/07.
 6. MW-8 AND MW-10 WERE INSTALLED ON 02/16/07.
 7. GROUNDWATER SAMPLES WERE COLLECTED ON 02/28/07.
 8. MW-10 WAS NOT USED TO CHL11 ISOCONCENTRATION CONTOUR MAP.

TITLE FIGURE 10
 DISSOLVED C9-C10 AROMATICS ISOCONCENTRATION CONTOUR MAP
 STRICKLANDS • 3
 9007 HIGHWAY 24
 AUTRYVILLE, NORTH CAROLINA



Raleigh, North Carolina 27604

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CAD FILE
 1252925.DGN

TYPE CODE

PREP BY
 JB

REV. BY
 KN

SCALE
 1" = 20'

DATE
 03-28-2007

PROJECT NO.
 45.03451.0048

04/15/2011 3:33pm - slhompson - H:\25 - A\C - 1252925.pl-04-15-11.dwg

LEGEND

- PROPERTY LINE
- ⊕ MONITORING WELL (TYPE II)
- ⊙ SOIL BORING LOCATION

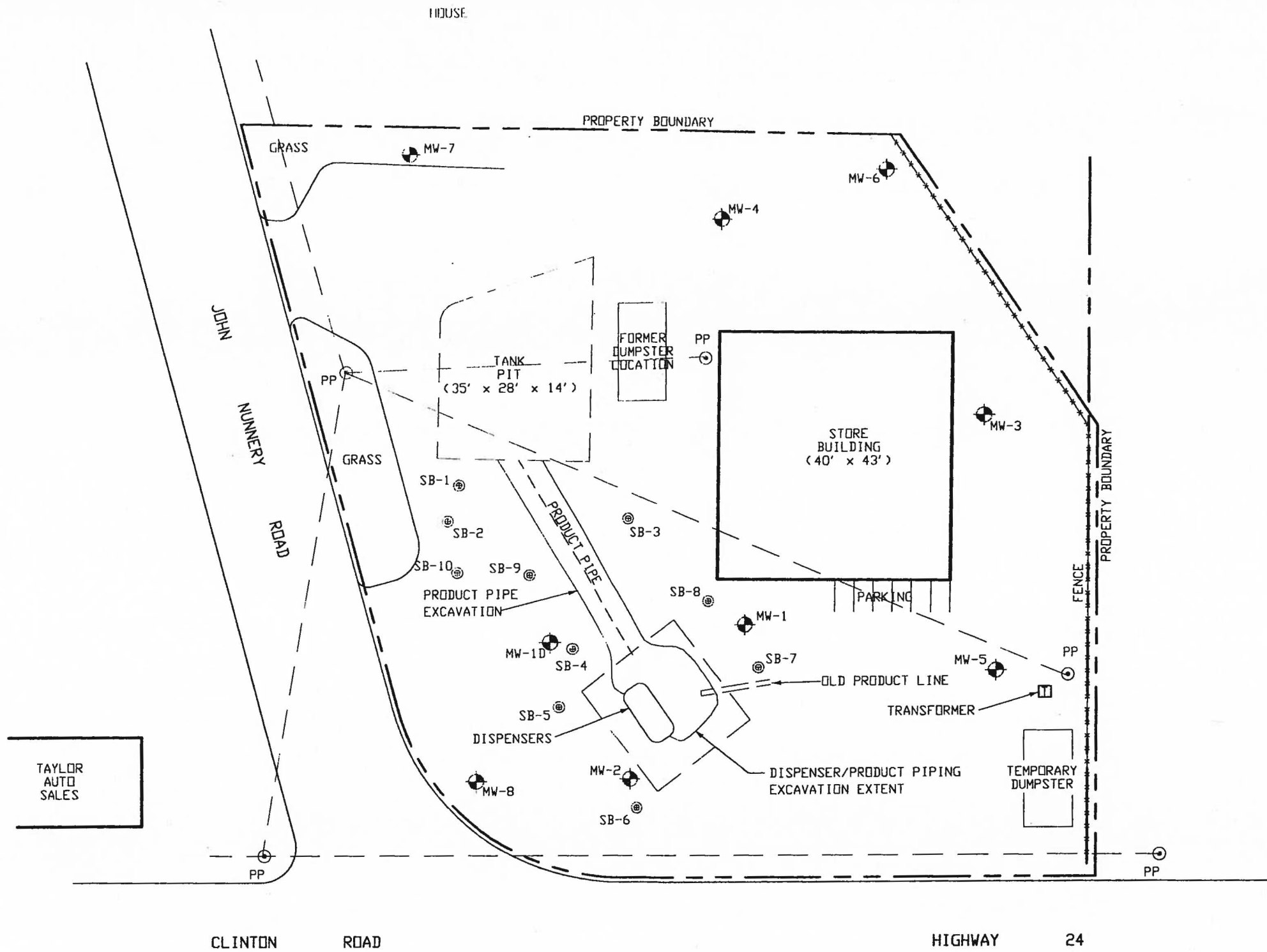


FIGURE 2

SITE MAP
STRICKLANDS #3
9007 HIGHWAY 24
AUTRYVILLE, NORTH CAROLINA



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NOTES: