REPORT OF
PRELIMINARY SITE ASSESSMENT

C. RICHARD BRUNING IV PROPERTY (QUICK SHOP EXXON), PARCEL #32
STATE PROJECT U-2412B, TIP NO. 34802.1.1
5814-A HIGH POINT ROAD
GREENSBORO, NORTH CAROLINA

Prepared for:

North Carolina Department of Transportation
Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Prepared by:

MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue
Raleigh, North Carolina 27604

May 24, 2010

MACTEC Project No. 6470-10-0072

MACTEC

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engineering and constructing a better tomorrow

May 24, 2010

Mr. Terry W. Fox, L.G.
Geoenvironmental Project Manager
NCDOT Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, North Carolina 27699

Subject: **Report of Preliminary Site Assessment**
C. Richard Bruning IV Property (Quick Shop Exxon), Parcel #32
State Project U-2412B, TIP No. 34802.1.1
5814-A High Point Road
Greensboro, North Carolina
MACTEC Project No. 6470-10-0072

Dear Mr. Fox:

As authorized by Cathy Houser's acceptance of MACTEC Proposal No. PROP 10-RAL-141 dated March 22, 2010, MACTEC Engineering and Consulting, Inc. (MACTEC) is pleased to submit the attached Report of Preliminary Site Assessment for the above-referenced site.

This report is intended for the use of NCDOT subject to contractual terms between NCDOT and MACTEC. Reliance on this document by any other party is not allowed without the expressed, written consent of MACTEC. Use of this report for purposes beyond those reasonably intended by NCDOT and MACTEC will be at the sole risk of the user.

This report presents project information and assessment activities conducted, along with our findings, conclusions and recommendations. We appreciate your selection of MACTEC for this project and look forward to assisting you further on this and other projects. If you have any questions, please do not hesitate to contact us.

Sincerely,

MACTEC Engineering and Consulting, Inc.

William S. Grimes, L.G.
Senior Geologist

Robert M. Miller, P.E.
Senior Project Manager/Principal Engineer

MACTEC Engineering and Consulting, Inc.
3301 Atlantic Avenue • Raleigh, NC 27604 • Phone: 919.876.0416 • Fax: 919.831.8136
License Number: NC Engineering F-0653 NC Geology C-247

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1.0 INTRODUCTION

MACTEC Engineering and Consulting, Inc. (MACTEC) was contracted by North Carolina Department of Transportation (NCDOT) to perform a Preliminary Site Assessment of the C. Richard Bruning IV property (Bruning property; also known as Quick Shop Exxon) located at 5814-A High Point Road in Greensboro, Guilford County, North Carolina (Figure 1). This property was one in a series of four sites that were investigated by MACTEC in conjunction with State Project U-2412B. MACTEC understands that NCDOT is planning road improvements to the area. Expanded right-of-way is being acquired by the NCDOT for this project. NCDOT requested that MACTEC assess the subject site to evaluate the extent (if any) of soil contamination related to the operation of the current building located on site and the impact (if any) of this operation on the proposed road improvements. This report presents a description of MACTEC's assessment activities, findings, conclusions and recommendations.

1.1 Site Location

The Bruning property is located at 5814-A High Point Road in Greensboro, Guilford County, North Carolina. The site is developed with a Quick Shop Exxon gas station/convenience store with a car wash and a Zekos Pizza. The Guilford County Geographic Information Services (GIS) shows the property owner as C. Richard Bruning IV, and identifies the site as parcel number 0155988 with the PIN of 7832442937. The site is bound to the northeast by an ABC Store and Consignment Woman's Boutique; to the southeast by High Point Road, across which is a residential property that is currently vacant; to the Southwest by Metals Drive, across which is Owensby Truck Service; and to the northwest by Uncle Bob's Self-Storage (Figure 2).

1.2 Background Information

The gas station building is constructed with a slab-on-grade concrete foundation and brick exterior. The asphalt parking lot provides access to Metals Drive and High Point Road. According to the North Carolina Department of Environment and Natural Resources Underground Storage Tank (UST) Registry, two underground storage tanks (USTs) were removed in 1989. The site currently operates three USTs and identified by Facility I.D. No. 0-013002. Groundwater contamination was identified for an adjacent property, Sav-Way Foods located at 5814 High Point Road, however no incident number is available for this release.

2.0 ASSESSMENT ACTIVITIES

Prior to field activities, MACTEC prepared a site health and safety plan in accordance with OSHA 1910.120 requirements. MACTEC contacted ULOCO and contracted Priority Underground Locating to mark the locations of underground utilities at the site. NCDOT contracted with Schnabel Engineering (Schnabel) to perform a geophysical survey to identify suspected USTs on the property and to identify buried utilities at the site. Schnabel provided paint mark outs of buried utilities and suspected UST locations to MACTEC prior to our assessment activities. Schnabel identified the three known USTs during their investigation located approximately 20 to 30 feet southwest of the westernmost canopy corner. Based on Schnabel's report, these USTs are located in the planned right-of-way and/or easement. Schnabel's Geophysical Survey Report is included in Appendix A.

2.1 Soil Assessment

On April 20, 2010, Regional Probing Services (RPS), under contract to MACTEC, advanced six soil borings (Nos. SB4-1 through SB4-6) at the subject site using a Geoprobe™ direct-push drill rig. Soil boring locations were selected based on the proposed NCDOT right-of-way, results of the geophysical investigation and field observations. Figure 2 shows a site layout and the locations of the soil borings.

MACTEC collected a soil sample from each boring location using the procedures outlined in Appendix B. Copies of soil boring records are included in Appendix C.

MACTEC instructed RPS to advance each soil boring to 12 feet below ground surface (bgs). MACTEC screened soil samples from each boring at one-foot intervals for volatile organic vapors using a photoionization detector (PID) and selected one soil sample from each boring for laboratory testing. MACTEC selected the soil sample that exhibited the highest PID measurement or the deepest, unsaturated soil sample if the PID did not detect organic vapors. Soil borings SB4-1 through SB4-6 were backfilled with the excess soil cuttings and bentonite chips.

2.2 Soil Analysis

MACTEC submitted the soil samples to Prism Laboratories (Prism) of Charlotte, North Carolina for analysis for total petroleum hydrocarbons (TPH) diesel range organics (DRO) according to EPA Preparation/Test Methods 3550/8015 and TPH gasoline range organics (GRO) according to EPA Preparation/Testing Methods 5035/8015.

3.0 LABORATORY RESULTS

The laboratory test results are summarized on Table 1. The laboratory test reports and chain-of-custody records are included in Appendix D. TPH was not detected in soil samples SB4-1 through SB4-6 at concentrations that exceed the laboratory reporting limits.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the Preliminary Site Assessment, MACTEC offers the following conclusions and recommendations:

- MACTEC did not find evidence of a petroleum release in the vicinity of soil borings SB4-1 through SB4-6.

- MACTEC does not have evidence to support the need for further environmental assessment by NCDOT at this time.

5.0 QUALIFICATIONS

This assessment was conducted under a limited scope for those purposes described above. The conclusions and recommendations presented in this report are based upon the data that were reviewed and documented in this report along with our experience on similar projects. The discovery of any additional information concerning environmental conditions at the site should be reported to MACTEC for additional review so that potential environmental impacts can be reassessed and the conclusions and recommendations modified, if appropriate.

FIGURES

TABLE

Table 1
Summary of Laboratory Test Results
State Project U-2412B, TIP No. 34802.1.1
C. Richard Bruning IV Property (Quick Shop Exxon), Parcel #32
Greensboro, North Carolina
MACTEC Job No. 6470-10-0072

Analytical Method →			*EPA 8015*	*EPA 8015*
Contaminant of Concern →			*TPH-DRO*	*TPH-GRO*
Sample ID	**Date Collected**	**Sample Depth**		
			mg/Kg	
SB4-1	4/20/2010	11'-12'	<11	<6.5
SB4-2	4/20/2010	11'-12'	<10	<4.1
SB4-3	4/20/2010	11'-12'	<9.2	<3.8
SB4-4	4/20/2010	11'-12'	<10	<4.6
SB4-5	4/20/2010	11'-12'	<10	<4.6
SB4-6	4/20/2010	11'-12'	<10	<4.6
NCDENR Action Level			*10*	*10*

Notes:

NCDENR	North Carolina Department of Environment and Natural Resources
<#	Analyte not detected above the Reporting Limit shown

Prepared by: WSF Date: 5-20-10

Checked by: CTS Date: 5/21/10

APPENDIX A

SCHNABEL ENGINEERING
GEOPHYSICAL SURVEY REPORT

Schnabel ENGINEERING

May 21, 2010

Mr. Robert Miller, PE, Senior Principal Engineer
Mactec Engineering and Consulting, Inc
3301 Atlantic Avenue
Raleigh, NC 27604

RE:		
	State Project:	U-2412B
	WBS Element:	34802.1.1
	County:	Guilford
	Description:	Greensboro – SR 4121 (Greensboro/High Point Road) from SR 1480 (Vickery Chapel Road) to SR 1424 (Hilltop Road)

Subject: **Report on Geophysical Surveys for Parcel 32, Greensboro, NC**
Schnabel Engineering Project 09210013.20

Dear Mr. Miller:

Schnabel Engineering South, P.C. (Schnabel) is pleased to present this report on the geophysical surveys we conducted on the subject property. We understand this letter report will be included as an appendix in your report to the NCDOT. The report includes two 11x17 color figures and three 8.5x11 color figures.

1.0 INTRODUCTION

The work described in this report was conducted on April 15, 19, and 20, 2010, by Schnabel under our 2009 contract with the NCDOT. The work was conducted within the accessible areas of the proposed right-of-way and/or easement as indicated by the NCDOT to support their environmental assessment of Parcel 32 (C. Richard Bruning IV Property, Quick Shop-Gas Stop Exxon). Photographs of the parcel are included on Figure 1. The purpose of the geophysical surveys was to locate possible metal underground storage tanks (UST's) and associated metal product lines in the accessible areas of the right-of-way and/or easement.

The geophysical investigation consisted of electromagnetic (EM) induction surveys using a Geonics EM61-MK2 instrument. The EM61 metal detector is used to locate metal objects buried up to about eight feet below ground surface. Ground-penetrating radar (GPR) investigations of selected EM61 anomalies,

T/ 336-274-9456 F/ 336-274-9486
11A Oak Branch Drive / Greensboro, NC / 27407
schnabel-eng.com

including areas of reinforced concrete, were conducted using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna. Photographs of the equipment used are shown on Figure 2.

2.0 FIELD METHODOLOGY

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system. References to direction and location in this report are based on the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 83 datum, with units in US survey feet. The locations of existing site features (building, curbs, 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 two orthogonal directions over anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the possible presence of UST's. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

Preliminary results for Parcel 32 were sent to Robert Miller and Kristen Lloyd of Mactec and Terry Fox of the NCDOT on April 16, 2010.

3.0 DISCUSSION OF RESULTS

The contoured EM61 data for Parcel 32 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 UST's.

The early time gate and differential results show anomalies apparently caused by reinforced concrete, buried utilities, or known site features (Figures 3 and 4). The GPR data collected near the southwestern side of the canopy on Parcel 32 indicated the presence of three known UST's located approximately 20 to 30 feet south of the westernmost canopy corner. The UST's are inside the limits of the planned right-of way and/or easement. An example GPR image showing the reflection from the known UST's on Parcel 32 is shown on Figures 3 and 4. Figures 3 and 4 also include the location of the known UST's as marked in the field. The GPR data indicate that two of the known UST's on Parcel 32 are buried approximately 2.0 to 3.0 feet below ground surface and are about 5 feet in diameter and about 24 feet long, equivalent to a capacity of about 4000 gallons. The GPR data indicate that the other known UST on Parcel 32 is buried approximately 2.0 to 3.0 feet below ground surface and are about 8 feet in diameter and about 32 feet long, equivalent to a capacity of about 12,000 gallons. Photographs of the known UST locations, as marked in the field, are included on Figure 5.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 32 on Project U-2412B in Greensboro, NC indicates the following:

The geophysical data indicate the presence of three known UST's on Parcel 32 located approximately 20 to 30 feet south of the westernmost canopy corner. The UST's are inside the planned right-of-way and/or easement. Two of the known UST's are about 4000-gallon capacity and are buried about 2.0 to 3.0 feet below ground surface. The other known UST is about 12,000-gallon capacity and is buried about 2.0 to 3.0 feet below ground surface.

5.0 LIMITATIONS

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

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

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC

James W. Whitt
Staff Geophysicist

Edward D. Billington, LG
Senior Vice President

JW:NB
Attachment: Figures (5)
FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.20 (U-2412B, GUILFORD CO.)\REPORT\PARCEL 32\PARCEL 32 (U-2412B).DOC

Parcel 32 – C. Richard Bruning IV Property, looking northwest

Parcel 32 – C. Richard Bruning IV Property, looking north

Schnabel ENGINEERING	STATE PROJECT U-2412B GUILFORD CO., NORTH CAROLINA NC DEPT. OF TRANSPORTATION PROJECT NO. 09210013.20	PARCEL 32 SITE PHOTOS FIGURE 1

Geonics EM61-MK2

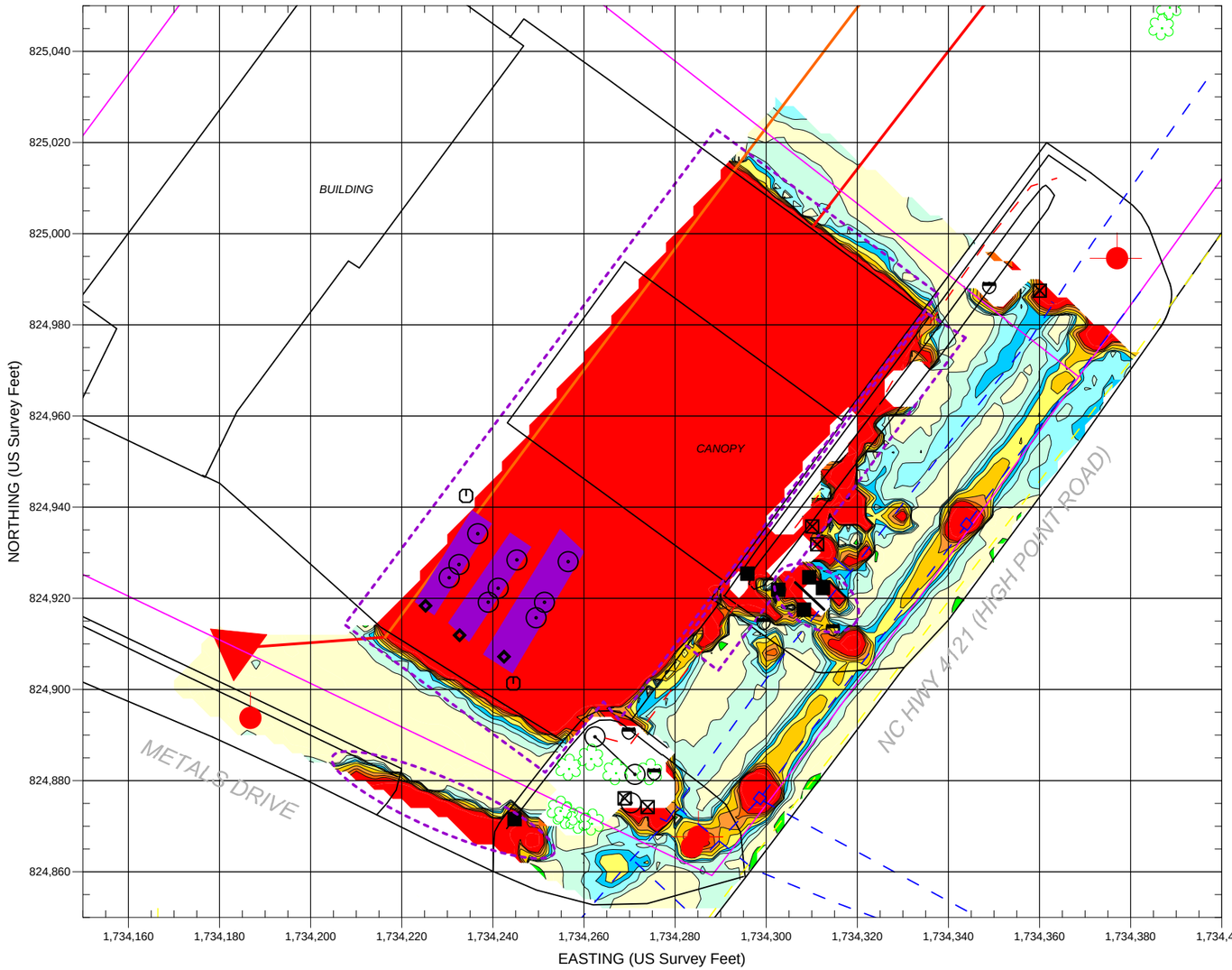
GSSI SIR-3000

Schnabel ENGINEERING

STATE PROJECT U-2412B
GUILFORD CO., NORTH CAROLINA
NC DEPT. OF TRANSPORTATION
PROJECT NO. 09210013.20

PHOTOS OF
GEOPHYSICAL
EQUIPMENT USED

FIGURE 2

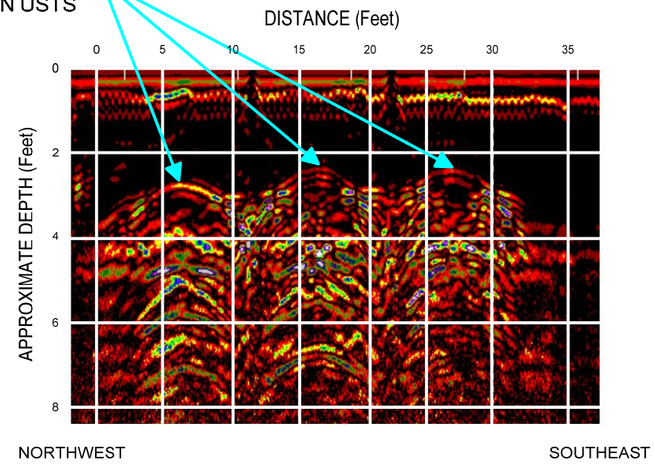


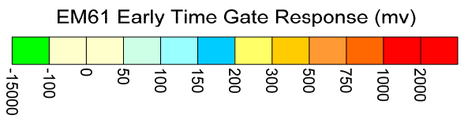
EXPLANATION

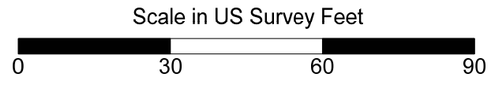
- SIGN
- UTILITY POLE
- GUY WIRE
- MISCELLANEOUS METALLIC OBJECT
- UTILITY MANHOLE, METER, BOX, ETC.
- LIGHT POLE
- STORM SEWER INLET
- UST LID
- DOT PROPOSED R/W
- DOT PROPOSED UTILITY EASEMENT
- PROPERTY LINE
- UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT [VARIOUS COLORS])
- EXAMPLE GPR LINE LOCATION
- GPR SURVEY AREA
- LOCATION OF KNOWN UST MARKED ON SITE

REF.: NCDOT FILE: u-2412b_rdy_psh_13.dgn
(FOR SOME SITE FEATURES)

EXAMPLE GPR RESPONSE FROM KNOWN USTS







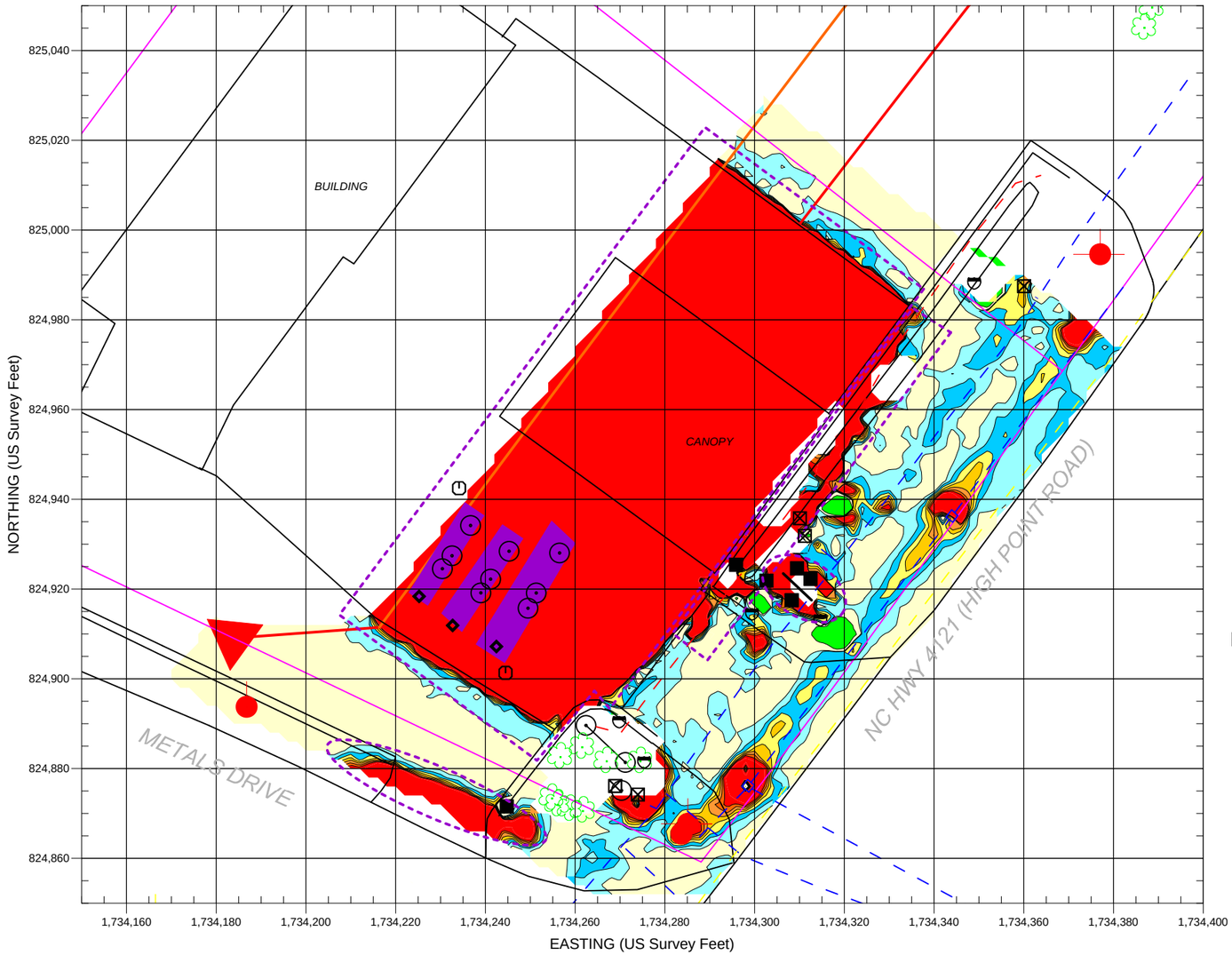
Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on April 15, 2010, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on April 19 and April 20, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT U-2412B
GUILFORD COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 09210013.20

PARCEL 32
EM61 EARLY TIME GATE RESPONSE

FIGURE 3



EXPLANATION

- SIGN
- UTILITY POLE
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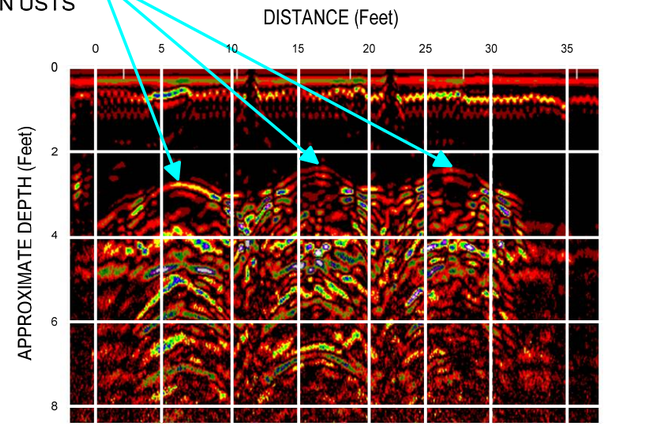
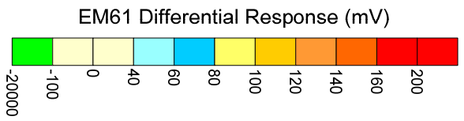
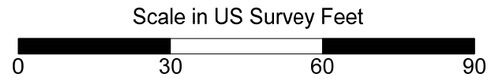
- EXAMPLE GPR LINE LOCATION
- GPR SURVEY AREA
- LOCATION OF KNOWN UST MARKED ON SITE

REF.: NCDOT FILE: u-2412b_rdy_psh_13.dgn
(FOR SOME SITE FEATURES)

EXAMPLE GPR RESPONSE FROM KNOWN USTS







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 April 14, 2010, 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 April 19 and April 20, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT U-2412B
GUILFORD COUNTY, NORTH CAROLINA
NC DEPARTMENT OF TRANSPORTATION
PROJECT NO. 09210013.20

PARCEL 32
EM61 DIFFERENTIAL RESPONSE

FIGURE 4

Parcel 32 – C. Richard Bruning IV Property, looking northeast. Photo shows approximate marked location of the known UST's near the southwestern side of the canopy.

Parcel 32 – C. Richard Bruning Property, looking southeast. Photo shows approximate marked location of the known UST's near the southwestern side of the canopy.

Schnabel ENGINEERING	STATE PROJECT U-2412B GUILFORD CO., NORTH CAROLINA NC DEPT. OF TRANSPORTATION PROJECT NO. 09210013.20	PHOTOS OF KNOWN UST LOCATION FIGURE 5

APPENDIX B

PROCEDURES FOR COLLECTING SOIL SAMPLES

Procedure for Collecting Soil Samples
for Laboratory Testing Using the Geoprobe

- MACTEC will collect the soil samples using the Geoprobe hammer impact system. Downforce or percussion will be utilized to advance the sampler to the desired depth to obtain the soil sample.

- Soil cores will be retrieved from the sampler and classified by an on-site geologist or engineer. The one-inch diameter cores are approximately four feet in length and are contained within a pre-cleaned, disposable plastic sleeve.

- Soil samples from the boring soil cores will be placed in pre-labeled, airtight, plastic "twin" bags.

- After several minutes, the gas contained in the "headspace" or void area within one of the twin bags will be tested with a photoionization detector (PID) or flame ionization detector (FID).

- The duplicate of the sample that exhibits the highest headspace reading will be submitted to the laboratory for testing. The remaining portion of the soil core will be utilized for classification purposes.

- The soils will be classified in accordance with the Unified Soils Classification System.

- The soil sample will be placed into laboratory-supplied bottles.

- Sample bottles will be labeled prior to sample collection.

- Caps will be secured on bottles.

- All sample containers will be placed in plastic bags and the bags sealed.

- Documentation, including chain-of-custody record and laboratory analytical request form, will be completed for all samples.

- Samples will be packed in coolers with "bubble wrap" and ice packs for shipment to the laboratory.

- The chain-of-custody record and analytical request form will be placed inside the cooler, which will be sealed with security tape.

- Samples will be sent to the analytical laboratory by overnight courier.

APPENDIX C

SOIL BORING RECORDS

MACTEC	MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina	Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro Sites **C. Richard Bruning IV Property (Quick Shop Exxon), Parcel #32**	**MACTEC Field Representative**
MACTEC Project #: 6470-10-0072	Lloyd
Date: 4/20/2010	
Boring ID: SB4-1	**N 36.01342°, W 079.89822°**

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)	Comments
			PID	
0-1	Grass and roots, Brown (7.5YR 4/4) SANDY SILT, firm, slightly plastic, few gravel, few roots. Dry.		0	
1-2	Brown (7.5YR 4/4) SANDY SILT, firm, slightly plastic, few gravel, few roots. Dry.		0	No unusual odors or stains
2-3	Strong brown (7.5YR 5/8) SILT, firm, slightly plastic. Moist.		0	No unusual odors or stains
3-4	Strong brown (7.5YR 5/8) SILT, firm, slightly plastic. Moist.		0	
4-5	Strong brown (7.5YR 5/8) SILT, firm, slightly plastic. Moist.		0	
5-6	Strong brown (7.5YR 5/8) SILT, firm, slightly plastic. Moist.		0	
6-7	Reddish yellow and red (7.5YR 6/8 and 2.5YR 5/8) SILT with very pale brown (10YR 8/2) mottles, firm, slightly plastic, trace mica. Moist.		0	No unusual odors or stains
7-8	Reddish yellow and red (7.5YR 6/8 and 2.5YR 5/8) SILT with very pale brown (10YR 8/2) mottles, firm, slightly plastic, trace mica. Moist.		0	
8-9	Reddish yellow and red (7.5YR 6/8 and 2.5YR 5/8) SILT with very pale brown (10YR 8/2) mottles, firm, slightly plastic, trace mica. Moist.		0	
9-10	Reddish yellow and red (7.5YR 6/8 and 2.5YR 5/8) SILT with very pale brown (10YR 8/2) mottles, firm, slightly plastic, trace mica. Moist.		0	
10-11	Reddish yellow and red (7.5YR 6/8 and 2.5YR 5/8) SILT with very pale brown (10YR 8/2) mottles, firm, slightly plastic, trace mica. Moist.		0	Becoming damp.
11-12	Reddish yellow and red (7.5YR 6/8 and 2.5YR 5/8) SILT with very pale brown (10YR 8/2) mottles, firm, slightly plastic, trace mica. Moist.	1415	0	

Prepared by: WSR Date: 5-20-10
Checked by: CBS Date: 5/21/10

MACTEC	MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina	Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro sites **C. Richard Bruning IV Property (Quick Shop Exxon), Parcel #32**	**MACTEC Field Representative**
MACTEC Project #: 6470-10-0072	Lloyd
Date: 4/20/2010	
Boring ID: SB4-2	**N 36.01331°, W 079.89830°**

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)	Comments
			PID	
0-1	Grass and roots; Brown (7.5YR 4/4) SANDY SILT, firm, slightly plastic, some gravel, few roots. Dry.		0	
1-2	Brown (7.5YR 4/4) SANDY SILT, firm, slightly plastic, some gravel, few roots. Dry.		0	No unusual odors or stains
2-3	Brownish yellow (10YR 6/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	No unusual odors or stains
3-4	Brownish yellow (10YR 6/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
4-5	Brownish yellow (10YR 6/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
5-6	Brownish yellow (10YR 6/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
6-7	Dark yellowish brown (10YR 4/6) CLAYEY SILT with gray (10YR 5/1) mottles, firm, plastic. Moist.		0	No unusual odors or stains
7-8	Dark yellowish brown (10YR 4/6) CLAYEY SILT with gray (10YR 5/1) mottles, firm, plastic. Moist.		0	
8-9	Dark yellowish brown (10YR 4/6) CLAYEY SILT with gray (10YR 5/1) mottles, firm, plastic. Moist.		0	
9-10	Dark yellowish brown (10YR 4/6) CLAYEY SILT with gray (10YR 5/1) mottles, firm, plastic. Moist.		0	
10-11	Strong brown (7.5YR 5/8) SILT, firm, slightly plastic, trace black. Moist.		0	No unusual odors or stains
11-12	Strong brown (7.5YR 5/8) SILT, firm, slightly plastic, trace black. Moist.	1435	0	

Prepared by: CMC Date: 5-20-10
Checked by: CBS Date: 5/21/10

MACTEC	MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina	Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro sites **C. Richard Bruning IV Property (Quick Shop Exxon), Parcel #32**	**MACTEC Field Representative**
MACTEC Project #: 6470-10-0072	Lloyd
Date: 4/20/2010	
Boring ID: SB4-3	**N 36.01323°, W 079.89839°**

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)	Comments
			PID	
0-1	Brown (7.5YR 4/4) SANDY SILT, firm, slightly plastic, some gravel, few roots. Dry.		0	
1-2	Brown (7.5YR 4/4) SANDY SILT, firm, slightly plastic, some gravel, few roots. Dry.		0	No unusual odors or stains
2-3	Brown (7.5YR 4/4) SANDY SILT, firm, slightly plastic, some gravel, few roots. Dry.		0	
3-4	Brown (7.5YR 4/4) SANDY SILT, firm, slightly plastic, some gravel, few roots. Dry.		0	
4-5	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic, few fine sand. Moist.		0	No unusual odors or stains
5-6	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic, few fine sand. Moist.		0	
6-7	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic, few fine sand. Moist.		0	
7-8	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic, few fine sand. Moist.		0	
8-9	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic, few fine sand. Moist.		0	
9-10	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic, few fine sand. Moist.		0	
10-11	Brownish yellow and light greenish gray (10YR 6/6 and 5G 8/1) SANDY SILT, soft, slightly plastic. Moist to damp.		0	No unusual odors or stains
11-12	Brownish yellow and light greenish gray (10YR 6/6 and 5G 8/1) SANDY SILT, soft, slightly plastic. Moist to damp.	1450	0	

Prepared by: LWK Date: 5-20-10
Checked by: CBS Date: 5/21/10

MACTEC	MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina	Soil Boring Sample Record
MACTEC Project ID: NCDOT Greensboro sites **C. Richard Bruning IV Property (Quick Shop Exxon), Parcel #32**		**MACTEC Field Representative**
MACTEC Project #: 6470-10-0072		Lloyd
Date: 4/20/2010		
Boring ID: SB4-4		**N 36.01316°, W 079.89847°**

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)	Comments
			PID	
0-1	Asphalt and gravel; Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
1-2	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	No unusual odors or stains
2-3	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
3-4	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
4-5	Olive brown (2.5Y 4/3) CLAYEY SILT, firm, plastic. Moist.		0	No unusual odors or stains
5-6	Olive brown (2.5Y 4/3) CLAYEY SILT, firm, plastic. Moist.		0	
6-7	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic. Moist.		0	No unusual odors or stains
7-8	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic. Moist.		0	
8-9	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic. Moist.		0	
9-10	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic. Moist.		0	
10-11	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic. Moist.		0	
11-12	Brownish yellow and light greenish gray (10YR 6/8 and 5G 8/1) CLAYEY SILT, firm, plastic. Moist.	1515	0	

Prepared by: CWV Date: 5-20-10
Checked by: CBS Date: 5/21/10

MACTEC	MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina	Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro sites **C. Richard Bruning IV Property (Quick Shop Exxon), Parcel #32**	**MACTEC Field Representative**
MACTEC Project #: 6470-10-0072	Lloyd
Date: 4/20/2010	
Boring ID: SB4-5	**N 36.01311°, W 079.89854°**

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)	Comments
			PID	
0-1	Asphalt and gravel; Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
1-2	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	No unusual odors or stains
2-3	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
3-4	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
4-5	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	No unusual odors or stains
5-6	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	
6-7	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	
7-8	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	
8-9	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	
9-10	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	
10-11	Dark yellowish brown and light greenish gray mottled (10YR 4/6 and 5G 7/1) CLAYEY SILT, firm, plastic. Moist.		0	No unusual odors or stains
11-12	Dark yellowish brown and light greenish gray mottled (10YR 4/6 and 5G 7/1) CLAYEY SILT, firm, plastic. Moist.	1525	0	

Prepared by: LWL Date: 5-20-10
Checked by: CBS Date: 5/21/10

MACTEC	MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina	Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro sites **C. Richard Bruning IV Property (Quick Shop Exxon), Parcel #32**	**MACTEC Field Representative**
MACTEC Project #: 6470-10-0072	Lloyd
Date: 4/20/2010	
Boring ID: SB4-6	**N 36.01319°, W 079.89870°**

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)	Comments
			PID	
0-1	Asphalt and gravel; Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
1-2	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	No unusual odors or stains
2-3	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
3-4	Red (2.5YR 4/6) SILT with sand, firm, slightly plastic, some fine sand. Moist.		0	
4-5	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	No unusual odors or stains
5-6	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	
6-7	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	
7-8	Yellowish brown (10YR 5/8) CLAYEY SILT, firm, plastic. Moist.		0	
8-9	Dark yellowish brown and light greenish gray mottled (10YR 4/6 and 5G 7/1) CLAYEY SILT, firm, plastic. Moist.		0	No unusual odors or stains
9-10	Dark yellowish brown and light greenish gray mottled (10YR 4/6 and 5G 7/1) CLAYEY SILT, firm, plastic. Moist.		0	
10-11	Dark yellowish brown and light greenish gray mottled (10YR 4/6 and 5G 7/1) CLAYEY SILT, firm, plastic. Moist.		0	
11-12	Dark yellowish brown and light greenish gray mottled (10YR 4/6 and 5G 7/1) CLAYEY SILT, firm, plastic. Moist.	1545	0	

Prepared by: LWSL Date: 5-7-2010
Checked by: CBS Date: 5/21/10

APPENDIX D

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

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

Case Narrative

05/05/2010

Mactec - Raleigh (NCDOT Project)
Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301 Atlantic Av
Raleigh, NC 27604

Project: NCDOT Greensboro
Project No.: WBS 34802.1.1
Lab Submittal Date: 04/22/2010
Prism Work Order: 0040318

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

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

Respectfully,

PRISM LABORATORIES, INC.

Steven H. Bystill

Project Manager

Steven H. Bystill

Reviewed By

Data Qualifiers Key Reference:

MI	Matrix spike outside of the control limits. Matrix interference suspected.
M	Matrix spike outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
D	RPD value outside of the control limits.
Af	Surrogate recovery is above the control limits.
Ae	Surrogate recovery is above range due to sample matrix interference.
Ad	Surrogate recovery above the control limits.
Ac	Surrogate recovery above range.
Ab	Surrogate recovered outside established QC range
Aa	Surrogate outside control limits.
A	Sample analyzed out of hold time.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

WS p.1-17

Sample Receipt Summary

05/05/2010

Prism Work Order: 0040318

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SB1-1	0040318-01	Solid	04/19/10	04/22/10
SB1-2	0040318-02	Solid	04/19/10	04/22/10
SB1-3	0040318-03	Solid	04/19/10	04/22/10
SB1-4	0040318-04	Solid	04/19/10	04/22/10
SB1-5	0040318-05	Solid	04/19/10	04/22/10
SB1-6	0040318-06	Solid	04/19/10	04/22/10
SB2-1	0040318-07	Solid	04/19/10	04/22/10
SB2-2	0040318-08	Solid	04/19/10	04/22/10
SB2-3	0040318-09	Solid	04/19/10	04/22/10
SB2-4	0040318-10	Solid	04/19/10	04/22/10
SB2-5	0040318-11	Solid	04/19/10	04/22/10
SB2-6	0040318-12	Solid	04/19/10	04/22/10
SB3-1	0040318-13	Solid	04/20/10	04/22/10
SB3-2	0040318-14	Solid	04/20/10	04/22/10
SB3-3	0040318-15	Solid	04/20/10	04/22/10
SB3-4	0040318-16	Solid	04/20/10	04/22/10
SB3-5	0040318-17	Solid	04/20/10	04/22/10
SB3-6	0040318-18	Solid	04/20/10	04/22/10
SB4-1	0040318-19	Solid	04/20/10	04/22/10
SB4-2	0040318-20	Solid	04/20/10	04/22/10
SB4-3	0040318-21	Solid	04/20/10	04/22/10
SB4-4	0040318-22	Solid	04/20/10	04/22/10
SB4-5	0040318-23	Solid	04/20/10	04/22/10
SB4-6	0040318-24	Solid	04/20/10	04/22/10

Samples received in good condition at 1.7 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro
Project No.: WBS 34802.1.1
Sample Matrix: Solid

Client Sample ID: SB4-1
Prism Sample ID: 0040318-19
Prism Work Order: 0040318
Time Collected: 04/20/10 14:15
Time Submitted: 04/22/10 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	11	1.7	1	8015C	4/30/10 13:41	JMV	P0D0385
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*126 %*		*49-124*	*Ab*
General Chemistry Parameters									
% Solids	**66.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**4/26/10 12:40**	**JAB**	**P0D0254**
Volatile Petroleum Hydrocarbons by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.5	0.84	50	8015C	5/3/10 21:25	HPE	P0E0019
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*89 %*		*55-129*	

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Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No.: WBS 34802.1.1
Sample Matrix: Solid

Client Sample ID: SB4-2
Prism Sample ID: 0040318-20
Prism Work Order: 0040318
Time Collected: 04/20/10 14:35
Time Submitted: 04/22/10 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	10	1.6	1	8015C	4/30/10 22:34	JMV	P0D0414
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*72 %*		*49-124*	
General Chemistry Parameters									
% Solids	**69.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**4/26/10 12:40**	**JAB**	**P0D0254**
Volatile Petroleum Hydrocarbons by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.1	0.53	50	8015C	5/3/10 21:56	HPE	P0E0019
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*132 %*		*55-129*	*Aa*

Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No.: WBS 34802.1.1
Sample Matrix: Solid

Client Sample ID: SB4-3
Prism Sample ID: 0040318-21
Prism Work Order: 0040318
Time Collected: 04/20/10 14:50
Time Submitted: 04/22/10 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.2	1.5	1	8015C	5/1/10 4:28	JMV	P0D0414
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*105 %*		*49-124*	
General Chemistry Parameters									
% Solids	**75.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**4/26/10 12:40**	**JAB**	**P0D0254**
Volatile Petroleum Hydrocarbons by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	3.8	0.49	50	8015C	5/3/10 22:28	HPE	P0E0019
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*136 %*		*55-129*	*Aa*

Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro
Project No.: WBS 34802.1.1
Sample Matrix: Solid

Client Sample ID: SB4-4
Prism Sample ID: 0040318-22
Prism Work Order: 0040318
Time Collected: 04/20/10 15:15
Time Submitted: 04/22/10 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	10	1.7	1	8015C	4/30/10 23:09	JMV	P0D0414
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*82 %*		*49-124*	
General Chemistry Parameters									
% Solids	**66.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**4/26/10 12:40**	**JAB**	**P0D0254**
Volatile Petroleum Hydrocarbons by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.6	0.60	50	8015C	5/3/10 22:59	HPE	P0E0019
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*88 %*		*55-129*	

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Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No.: WBS 34802.1.1
Sample Matrix: Solid

Client Sample ID: SB4-5
Prism Sample ID: 0040318-23
Prism Work Order: 0040318
Time Collected: 04/20/10 15:30
Time Submitted: 04/22/10 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	10	1.6	1	8015C	4/30/10 23:45	JMV	P0D0414
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*89 %*		*49-124*	
General Chemistry Parameters									
% Solids	**68.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**4/26/10 12:40**	**JAB**	**P0D0254**
Volatile Petroleum Hydrocarbons by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.6	0.59	50	8015C	5/3/10 23:30	HPE	P0E0019
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*88 %*		*55-129*	

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Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No.: WBS 34802.1.1
Sample Matrix: Solid

Client Sample ID: SB4-6
Prism Sample ID: 0040318-24
Prism Work Order: 0040318
Time Collected: 04/20/10 15:45
Time Submitted: 04/22/10 13:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	10	1.7	1	8015C	5/1/10 0:20	JMV	P0D0414
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*88 %*		*49-124*	
General Chemistry Parameters									
% Solids	**68.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**4/26/10 12:40**	**JAB**	**P0D0254**
Volatile Petroleum Hydrocarbons by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.6	0.60	50	8015C	5/4/10 0:01	HPE	P0E0019
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*118 %*		*55-129*	

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No: WBS 34802.1.1

Prism Work Order: 0040318
Time Submitted: 04/22/10 1:50:00PM

Volatile Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0352 - 5035										
Blank (P0D0352-BLK1)				Prepared: 04/28/10 Analyzed: 04/30/10						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*4.25*		*mg/kg wet*	*5.00*		*85*	*55-129*			
LCS (P0D0352-BS1)				Prepared: 04/28/10 Analyzed: 04/30/10						
Gasoline Range Organics	43.2	5.0	mg/kg wet	50.0		86	67-116			
Surrogate: a,a,a-Trifluorotoluene	*4.80*		*mg/kg wet*	*5.00*		*96*	*55-129*			
Matrix Spike (P0D0352-MS1)	**Source: 0040333-06**			Prepared: 04/28/10 Analyzed: 04/30/10						
Gasoline Range Organics	59.1	6.2	mg/kg dry	62.1	BRL	95	57-113			
Surrogate: a,a,a-Trifluorotoluene	*5.40*		*mg/kg dry*	*6.21*		*87*	*55-129*			
Matrix Spike Dup (P0D0352-MSD1)	**Source: 0040333-06**			Prepared: 04/28/10 Analyzed: 04/30/10						
Gasoline Range Organics	60.1	6.2	mg/kg dry	62.1	BRL	97	57-113	2	23	
Surrogate: a,a,a-Trifluorotoluene	*5.28*		*mg/kg dry*	*6.21*		*85*	*55-129*			
Batch P0D0421 - 5035										
Blank (P0D0421-BLK1)				Prepared & Analyzed: 04/30/10						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*4.65*		*mg/kg wet*	*5.00*		*93*	*55-129*			
LCS (P0D0421-BS1)				Prepared & Analyzed: 04/30/10						
Gasoline Range Organics	44.1	5.0	mg/kg wet	50.0		88	67-116			
Surrogate: a,a,a-Trifluorotoluene	*4.90*		*mg/kg wet*	*5.00*		*98*	*55-129*			
Matrix Spike (P0D0421-MS1)	**Source: 0040345-01**			Prepared & Analyzed: 04/30/10						
Gasoline Range Organics	70.1	6.2	mg/kg dry	61.7	BRL	114	57-113			M
Surrogate: a,a,a-Trifluorotoluene	*6.91*		*mg/kg dry*	*6.17*		*112*	*55-129*			

Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No: WBS 34802.1.1

Prism Work Order: 0040318
Time Submitted: 04/22/10 1:50:00PM

Volatile Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0421 - 5035										
Matrix Spike Dup (P0D0421-MSD1)	**Source: 0040345-01**			Prepared & Analyzed: 04/30/10						
Gasoline Range Organics	69.4	6.2	mg/kg dry	61.7	BRL	112	57-113	0.9	23	
Surrogate: a,a,a-Trifluorotoluene	*6.98*		*mg/kg dry*	*6.17*		*113*	*55-129*			
Batch P0E0019 - 5035										
Blank (P0E0019-BLK1)				Prepared & Analyzed: 05/03/10						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*4.95*		*mg/kg wet*	*5.00*		*99*	*55-129*			
LCS (P0E0019-BS1)				Prepared & Analyzed: 05/03/10						
Gasoline Range Organics	39.6	5.0	mg/kg wet	50.0		79	67-116			
Surrogate: a,a,a-Trifluorotoluene	*4.80*		*mg/kg wet*	*5.00*		*96*	*55-129*			
Matrix Spike (P0E0019-MS1)	**Source: 0040318-16**			Prepared & Analyzed: 05/03/10						
Gasoline Range Organics	21.0	4.0	mg/kg dry	39.8	BRL	53	57-113			MI
Surrogate: a,a,a-Trifluorotoluene	*3.03*		*mg/kg dry*	*3.98*		*76*	*55-129*			
Matrix Spike Dup (P0E0019-MSD1)	**Source: 0040318-16**			Prepared & Analyzed: 05/03/10						
Gasoline Range Organics	22.2	4.0	mg/kg dry	39.8	BRL	56	57-113	6	23	MI
Surrogate: a,a,a-Trifluorotoluene	*3.11*		*mg/kg dry*	*3.98*		*78*	*55-129*			

Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No: WBS 34802.1.1

Prism Work Order: 0040318
Time Submitted: 04/22/10 1:50:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0313 - 3545A										
Blank (P0D0313-BLK1)				Prepared: 04/27/10 Analyzed: 04/29/10						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*1.46*		*mg/kg wet*	*1.60*		*91*	*49-124*			
LCS (P0D0313-BS1)				Prepared: 04/27/10 Analyzed: 04/29/10						
Diesel Range Organics	58.8	7.0	mg/kg wet	80.0		74	55-109			
Surrogate: o-Terphenyl	*1.91*		*mg/kg wet*	*1.60*		*119*	*49-124*			
Matrix Spike (P0D0313-MS1)	**Source: 0040318-02**			Prepared: 04/27/10 Analyzed: 04/29/10						
Diesel Range Organics	70.5	8.9	mg/kg dry	102	BRL	69	50-117			
Surrogate: o-Terphenyl	*2.45*		*mg/kg dry*	*2.04*		*120*	*49-124*			
Matrix Spike Dup (P0D0313-MSD1)	**Source: 0040318-02**			Prepared: 04/27/10 Analyzed: 04/29/10						
Diesel Range Organics	77.5	8.9	mg/kg dry	102	BRL	76	50-117	9	24	
Surrogate: o-Terphenyl	*2.61*		*mg/kg dry*	*2.04*		*128*	*49-124*			*Ac*
Batch P0D0385 - 3545A										
Blank (P0D0385-BLK1)				Prepared: 04/28/10 Analyzed: 04/30/10						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*1.75*		*mg/kg wet*	*1.60*		*109*	*49-124*			
LCS (P0D0385-BS1)				Prepared: 04/28/10 Analyzed: 04/30/10						
Diesel Range Organics	70.9	7.0	mg/kg wet	80.0		89	55-109			
Surrogate: o-Terphenyl	*1.82*		*mg/kg wet*	*1.60*		*114*	*49-124*			
Matrix Spike (P0D0385-MS1)	**Source: 0040345-01**			Prepared: 04/28/10 Analyzed: 04/30/10						
Diesel Range Organics	155	8.6	mg/kg dry	98.4	107	49	50-117			MI
Surrogate: o-Terphenyl	*1.80*		*mg/kg dry*	*1.97*		*91*	*49-124*			

Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No: WBS 34802.1.1

Prism Work Order: 0040318
Time Submitted: 04/22/10 1:50:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0385 - 3545A										
Matrix Spike Dup (P0D0385-MSD1)	**Source: 0040345-01**			Prepared: 04/28/10 Analyzed: 04/30/10						
Diesel Range Organics	307	8.6	mg/kg dry	98.5	107	203	50-117	66	24	D, MI
Surrogate: o-Terphenyl	*4.49*		*mg/kg dry*	*1.97*		*228*	*49-124*			*Ae*
Batch P0D0414 - 3545A										
Blank (P0D0414-BLK1)				Prepared: 04/29/10 Analyzed: 04/30/10						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*1.59*		*mg/kg wet*	*1.60*		*99*	*49-124*			
LCS (P0D0414-BS1)				Prepared: 04/29/10 Analyzed: 04/30/10						
Diesel Range Organics	63.5	7.0	mg/kg wet	80.0		79	55-109			
Surrogate: o-Terphenyl	*2.11*		*mg/kg wet*	*1.60*		*132*	*49-124*			*Ad*
Matrix Spike (P0D0414-MS1)	**Source: 0040318-20**			Prepared: 04/29/10 Analyzed: 04/30/10						
Diesel Range Organics	97.5	10	mg/kg dry	115	BRL	85	50-117			
Surrogate: o-Terphenyl	*3.16*		*mg/kg dry*	*2.29*		*138*	*49-124*			*Af*
Matrix Spike Dup (P0D0414-MSD1)	**Source: 0040318-20**			Prepared: 04/29/10 Analyzed: 04/30/10						
Diesel Range Organics	83.8	10	mg/kg dry	115	BRL	73	50-117	15	24	
Surrogate: o-Terphenyl	*2.67*		*mg/kg dry*	*2.29*		*116*	*49-124*			

Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301
Raleigh, NC 27604

Project: NCDOT Greensboro

Project No: WBS 34802.1.1

Prism Work Order: 0040318
Time Submitted: 04/22/10 1:50:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0D0254 - NO PREP										
Duplicate (P0D0254-DUP2)		**Source: 0040318-16**		Prepared & Analyzed: 04/26/10						
% Solids	66.0	0.100	% by Weight		65.7			0.5	20	

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0040318-01	P0D0313	25.02 g	1 mL	04/27/10
0040318-02	P0D0313	25.07 g	1 mL	04/27/10
0040318-03	P0D0313	25.04 g	1 mL	04/27/10
0040318-04	P0D0313	25.06 g	1 mL	04/27/10
0040318-05	P0D0313	25.02 g	1 mL	04/27/10
0040318-06	P0D0313	25 g	1 mL	04/27/10
0040318-07	P0D0313	25.02 g	1 mL	04/27/10
0040318-08	P0D0313	25.1 g	1 mL	04/27/10
0040318-09	P0D0313	25.06 g	1 mL	04/27/10
0040318-10	P0D0313	25.1 g	1 mL	04/27/10
0040318-11	P0D0385	25.07 g	1 mL	04/28/10
0040318-12	P0D0385	25.09 g	1 mL	04/28/10
0040318-13	P0D0385	25 g	1 mL	04/28/10
0040318-14	P0D0385	25.03 g	1 mL	04/28/10
0040318-15	P0D0385	25.06 g	1 mL	04/28/10
0040318-16	P0D0385	25.01 g	1 mL	04/28/10
0040318-17	P0D0385	25.05 g	1 mL	04/28/10
0040318-18	P0D0385	25.05 g	1 mL	04/28/10
0040318-19	P0D0385	25.05 g	1 mL	04/28/10
0040318-20	P0D0414	25.18 g	1 mL	04/29/10
0040318-21	P0D0414	25.09 g	1 mL	04/29/10
0040318-22	P0D0414	25 g	1 mL	04/29/10
0040318-23	P0D0414	25.07 g	1 mL	04/29/10
0040318-24	P0D0414	25 g	1 mL	04/29/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0040318-01	P0D0254	30 g	30 mL	04/26/10
0040318-02	P0D0254	30 g	30 mL	04/26/10
0040318-03	P0D0254	30 g	30 mL	04/26/10
0040318-04	P0D0254	30 g	30 mL	04/26/10
0040318-05	P0D0254	30 g	30 mL	04/26/10
0040318-06	P0D0254	30 g	30 mL	04/26/10
0040318-07	P0D0254	30 g	30 mL	04/26/10
0040318-08	P0D0254	30 g	30 mL	04/26/10
0040318-09	P0D0254	30 g	30 mL	04/26/10
0040318-10	P0D0254	30 g	30 mL	04/26/10
0040318-11	P0D0254	30 g	30 mL	04/26/10
0040318-12	P0D0254	30 g	30 mL	04/26/10
0040318-13	P0D0254	30 g	30 mL	04/26/10
0040318-14	P0D0254	30 g	30 mL	04/26/10
0040318-15	P0D0254	30 g	30 mL	04/26/10
0040318-16	P0D0254	30 g	30 mL	04/26/10
0040318-17	P0D0254	30 g	30 mL	04/26/10
0040318-18	P0D0254	30 g	30 mL	04/26/10
0040318-19	P0D0254	30 g	30 mL	04/26/10
0040318-20	P0D0254	30 g	30 mL	04/26/10
0040318-21	P0D0254	30 g	30 mL	04/26/10
0040318-22	P0D0254	30 g	30 mL	04/26/10
0040318-23	P0D0254	30 g	30 mL	04/26/10
0040318-24	P0D0254	30 g	30 mL	04/26/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0040318-01	P0D0352	10.55 g	5 mL	04/28/10

Sample Extraction Data

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0040318-02	P0D0352	7.68 g	5 mL	04/28/10
0040318-03	P0D0352	10.61 g	5 mL	04/28/10
0040318-04	P0D0352	9.12 g	5 mL	04/28/10
0040318-05	P0D0352	9.27 g	5 mL	04/28/10
0040318-06	P0D0352	10.87 g	5 mL	04/28/10
0040318-07	P0D0352	9.74 g	5 mL	04/28/10
0040318-08	P0D0421	9.54 g	5 mL	04/30/10
0040318-09	P0D0421	8.23 g	5 mL	04/30/10
0040318-10	P0D0421	8.97 g	5 mL	04/30/10
0040318-11	P0D0421	7.8 g	5 mL	04/30/10
0040318-12	P0D0421	7.64 g	5 mL	04/30/10
0040318-13	P0D0421	9.83 g	5 mL	04/30/10
0040318-14	P0D0421	7.18 g	5 mL	04/30/10
0040318-15	P0D0421	8.05 g	5 mL	04/30/10
0040318-16	P0E0019	10.62 g	5 mL	05/03/10
0040318-17	P0E0019	9.39 g	5 mL	05/03/10
0040318-18	P0E0019	11.65 g	5 mL	05/03/10
0040318-19	P0E0019	5.81 g	5 mL	05/03/10
0040318-20	P0E0019	8.85 g	5 mL	05/03/10
0040318-21	P0E0019	8.75 g	5 mL	05/03/10
0040318-22	P0E0019	8.17 g	5 mL	05/03/10
0040318-23	P0E0019	7.98 g	5 mL	05/03/10
0040318-24	P0E0019	7.98 g	5 mL	05/03/10

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

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

PAGE 2 OF 3 QUOTE # TO ENSURE PROPER BILLING: _____

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

Client Company Name: MACTEC
Report To/Contact Name: Matt Gillis
Reporting Address: MACTEC Raleigh

Phone: 919-831-8056 Fax (Yes) (No)
Email (Yes) (No) Email Address mjg.llis@mactec.com
EDD Type: PDF X Excel ___ Other ___
Site Location Name: NCDOT Greensboro Sites
Site Location Physical Address: High Point Rd, GSBO

Purchase Order No./Billing Reference WBS 34802.1.1
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 1.9	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED TPH DRO	TPH GRO	REMARKS	PRISM LAB ID NO.
SB 2-5	4/19/10	1530	Soil	CG, VOA	2, 2	4oz, 40mL	Methanol	✓	✓		11
SB 2-6	↓	1600						✓	✓		12
SB 3-1	4/20/10	1025						✓	✓		13
SB 3-2		1045						✓	✓		14
SB 3-3		1120						✓	✓		15
SB 3-4		1145						✓	✓		16
SB 3-5		1210						✓	✓		17
SB 3-6		1235						✓	✓		18
SB 4-1		1415						✓	✓		19
SB 4-2	↓	1435	↓	↓	↓	↓	↓	✓	✓		20

Sampler's Signature: Kristen Lloyd
Sampled By (Print Name): Kristen Lloyd
Affiliation: _____

PRESS DOWN FIRMLY - 3 COPIES

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

	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature) Kristen Lloyd	Received By: (Signature) Alex Lassiter	042210	1115
Relinquished By: (Signature) Alex Lassiter	Received By: (Signature)	4/22/10	1220
Relinquished By: (Signature)	Received For Prism Laboratories By:	4/22/10	1350

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other ___

COC Group No. 004038

Additional Comments:

PRISM USE ONLY
Site Arrival Time
Site Departure Time
Field Tech Fee
Mileage

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

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

PAGE 3 OF 3 QUOTE # TO ENSURE PROPER BILLING: _____

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

Client Company Name: MACTEC RALEIGH
Report To/Contact Name: MATT GILLIS
Reporting Address: Raleigh

Phone: 919-831-8056 Fax (Yes) (No): _____
Email (Yes) (No) Email Address mgillis@mactec.com
EDD Type: PDF X Excel ___ Other _____
Site Location Name: NCDOT Greensboro
Site Location Physical Address: High Point Rd

Purchase Order No./Billing Reference WBS 34802.1.1
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 1.7	✓		
PROPER PRESERVATIVES Indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS Used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ___ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED TPH	VOA	GRO	REMARKS	PRISM LAB ID NO.
SB4-3	4/20/10	1450	Soil	CG, VOA	2, 2	4oz, 40mL	Methanol	✓	✓			21
SB4-4	↓	1515	↓	↓	↓	↓	↓	✓	✓			22
SB4-5		1530						✓	✓			23
SB4-6		1545						✓	✓			24

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Sampler's Signature Kristen Lloyd | Sampled By (Print Name) Kristen Lloyd | Affiliation _____

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

	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature) Kristen Lloyd	Alex Lassiter	042210	1115
Relinquished By: (Signature) Alex Lassiter	[signature]	4/22/10	1220
Relinquished By: (Signature) [signature] 4/22/10 1350	Received For Prism Laboratories By: [signature]	4/22/10	1350

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. 0040318

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

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

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