

**REPORT OF PRELIMINARY
ENVIRONMENTAL SITE ASSESSMENT**

**FORMER MCCARTY AUTOMOTIVE PROPERTY, PARCEL # 126
STATE PROJECT U-2412-B, TIP NO. 34802.1.1
4601 HIGH POINT ROAD
GREENSBORO, NORTH CAROLINA**

Prepared for:

**North Carolina Department of Transportation
Professional Services Management Unit
1592 Mail Service Center
Raleigh, North Carolina 27699**

Prepared by:

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

MACTEC Project No. 6470-10-0244

December 10, 2010





engineering and constructing a better tomorrow

December 10, 2010

Mr. Cathy Houser, P.E.
NCDOT Professional Services Management Unit
1592 Mail Service Center
Raleigh, North Carolina 27699

Subject: **Report of Preliminary Environmental Site Assessment
Former McCarty Automotive Property, Parcel #126
State Project U-2412-B, Tip No. 34802.1.1
4601 High Point Road
Greensboro, North Carolina
MACTEC Project No. 6470-10-0244**

Dear Ms. Houser:

As authorized by your acceptance of MACTEC Proposal No. PROP 10-RAL-479 dated October 22, 2010, MACTEC Engineering and Consulting, Inc. (MACTEC) is pleased to submit the attached Report of Preliminary Environmental 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.

Handwritten signature of Matthew J. Gillis in black ink.

Matthew J. Gillis
Staff Scientist

Handwritten signature of Robert M. Miller in black ink.

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

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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 Environmental Site Assessment of the property owned by McCarty Automotive Inc. located at 4601 High Point Road, Greensboro, Guilford County, North Carolina (Figure 1). This property was investigated by MACTEC in conjunction with State Project U-2412-B. MACTEC understands that NCDOT is planning road improvements to the area. The entire property is being acquired by NCDOT for this project. NCDOT requested that MACTEC assess the subject site to evaluate the extent (if any) of soil contamination related to activity (past or present) at this location and the impact (if any) on the proposed road improvements. This report presents MACTEC's assessment activities, findings, conclusions and recommendations.

1.1 Site Location

The Former McCarty Automotive (McCarty) property is located at 4601 High Point Road in Greensboro, Guilford County, North Carolina. The site consists of approximately 0.35 acres of land and is developed as Champion Automotive Service Center. The Guilford County Geographic Information Services (GIS) identifies the site as parcel identification number (PIN) 7843315798. The site is bound to the north by Jamison Place, across which is Sharon Walker Dentistry; to the east by Guilford Security Agency, Inc.; to the south by Sedgefield Shopping Center; and to the west by High Point Road, across which is DMS Building and Custom Caps (Figure 2).

1.2 Background Information

The McCarty property building is 3,576 square feet in area and is constructed with a concrete slab foundation and brick exterior. The building was used as a gas station and automotive repair center in the past. MACTEC observed a gas station canopy and a former dispenser island along the front of the building. MACTEC also observed a paint shop along the rear of the building. The asphalt parking lot provides access to High Point Road.

According to the North Carolina Department of Environment and Natural Resources (NCDENR) Underground Storage Tank (UST) Registry, five USTs were removed in 1990. Groundwater contamination was identified at the time the USTs were removed. NCDENR designated the site as incident number 06278.

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 Bateman Civil Service 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 did not identify anomalies that may be USTs. Schnabel's Geophysics Report is included in Appendix A.

2.1 Soil Assessment

On November 10, 2010, Troxler Geologic Services, Inc. (Troxler), under contract to MACTEC, advanced 10 soil borings (Nos. SB-1 through SB-10) at the subject site using a Geoprobe™ direct-push technology. Soil boring locations were selected based on the results of the geophysical investigation and field observations. Figure 2 shows a site layout and the locations of the soil borings. Coordinates of the soil boring locations were recorded using a hand-held GPS.

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

MACTEC instructed Troxler to advance each soil boring to approximately eight 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 SB-1 through SB-10 were backfilled with the excess soil cuttings and bentonite chips.

2.2 Soil Analysis

MACTEC submitted the soil samples to Prism Laboratories, Inc. (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.

3.1 Soil Sample Analytical Results

The laboratory detected TPH DRO in the soil samples collected from soil borings SB-1, SB-3, SB-8, SB-9, and SB-10 at concentrations that exceed the laboratory reporting limit. The laboratory detected TPH DRO in the soil samples collected from soil borings SB-2 and SB-7 at concentrations that exceed NCDENR's Action Level of 10 mg/Kg. The laboratory detected TPH GRO in the soil samples collected from soil borings SB-1 and SB-2 at concentrations that exceed the NCDENR Action Level of 10 mg/Kg.

4.0 CONCLUSIONS AND RECOMMENDATIONS

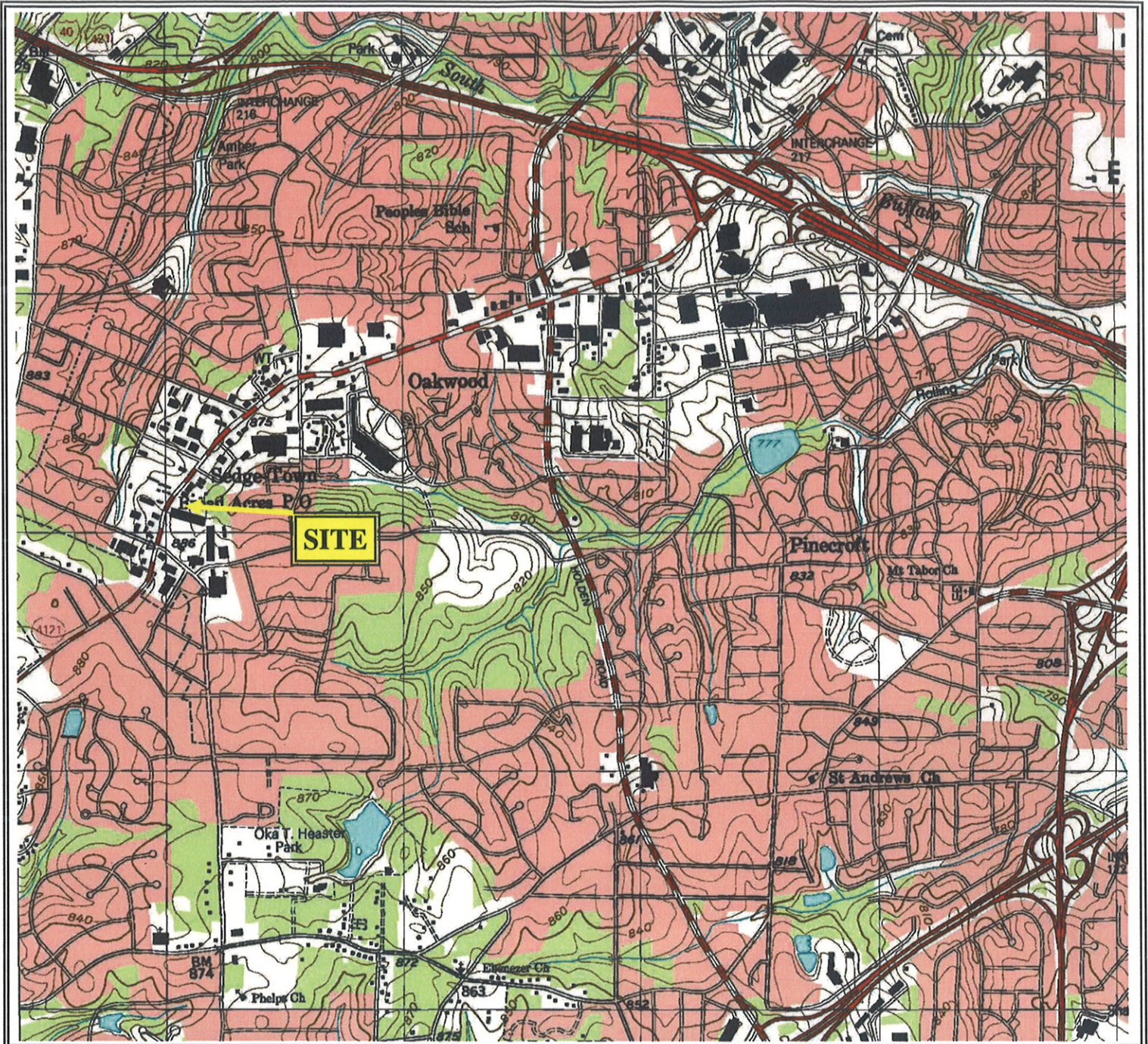
Based on the Preliminary Environmental Site Assessment, MACTEC offers the following conclusions and recommendations:

- The laboratory detected TPH DRO in two soil samples (SB-2 and SB-7) and TPH GRO in two soil samples (SB-1 and SB-2) at concentrations which exceed NCDENR's Action Level of 10 mg/Kg.
- Soil borings SB-1 and SB-2 are contiguous. If all soil between these borings is considered impacted to a depth of five vertical feet, and for a width of five feet on either side of the boring extending five feet beyond each boring, a total of approximately 47 cubic yards of soil is impacted in this area. Figure 2 shows the extent of impacted soil.
- If the impacted soil at the location of SB-7 extends up to five feet horizontally in all directions and eight feet vertically from the boring locations, an estimated total of 23 cubic yards of impacted soil is present at this location. Figure 2 shows the extent of impacted soil.
- The presence of TPH is evidence of a release of petroleum. MACTEC recommends notifying the property owner of this finding, who should then report this evidence to the Winston-Salem Regional Office of NCDENR.

5.0 QUALIFICATIONS

This assessment was performed 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

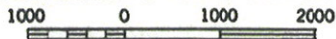


GREENSBORO, NC

1997

NIMA 5056 III SE-SERIES V842

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

NOTE: SITE LOCATION IS APPROXIMATE



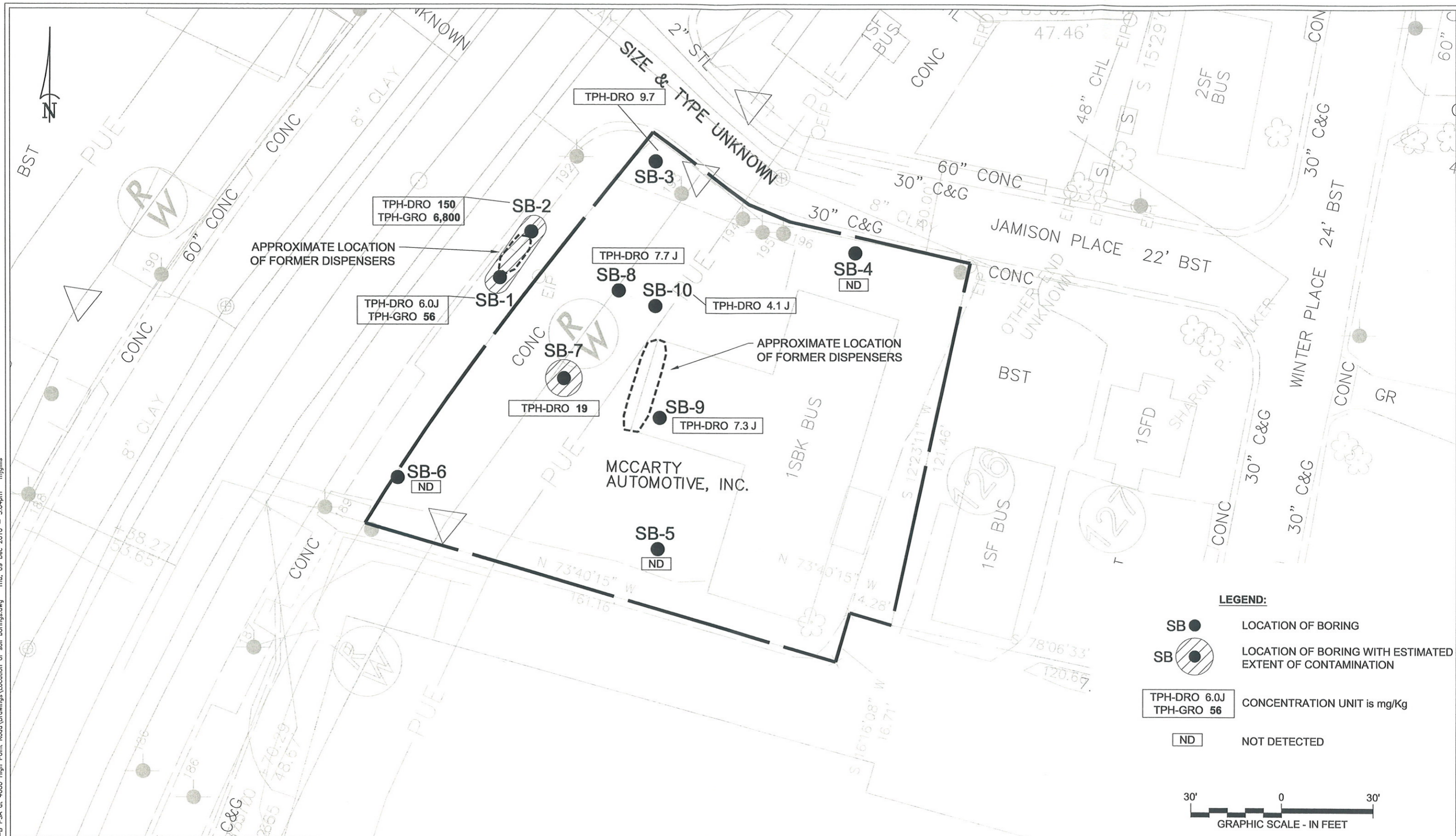
MACTEC ENGINEERING AND CONSULTING, INC.
3301 ATLANTIC AVENUE
RALEIGH, NORTH CAROLINA



TOPOGRAPHIC SITE MAP
FORMER MCCARTY AUTOMOTIVE PROPERTY
PARCEL #126
GREENSBORO, NORTH CAROLINA

DRAWN: MJG	DATE: DECEMBER 2010	FIGURE
ENG CHECK: CBS	SCALE: 1 : 24000	1
APPROVAL: [Signature]	JOB: 6470-10-0244	

P:\6470\10\0244 NCDOT U-2412-B PSA at 4600 High Point Road\Drawings\Location of soil borings.dwg Thu, 09 Dec 2010 - 3:04pm mjgillis



LEGEND:

- SB ● LOCATION OF BORING
- SB ● (with hatched circle) LOCATION OF BORING WITH ESTIMATED EXTENT OF CONTAMINATION
- TPH-DRO 6.0J
TPH-GRO 56 CONCENTRATION UNIT is mg/Kg
- ND NOT DETECTED



SITE LOCATION PLAN
FORMER MCCARTY AUTOMOTIVE PROPERTY, PARCEL #126
PROJECT NO. U-2412-B, TIP NO. 34802.1.1
GREENSBORO, NORTH CAROLINA

DRAWN:	R.R.	DATE:	DECEMBER 2010
ENG CHECK:	MJG	SCALE:	AS SHOWN
APPROVAL:	<i>[Signature]</i>	JOB No.:	6470-10-0244

FIGURE
2

REFERENCE: BASE DRAWINGS ARE PROVIDED BY NCDOT DATED 11/15/2010; MACTEC FIELD NOTES; LAB TEST RESULTS.

TABLE

Table 1

Summary of Laboratory Test Results
 State Project U-2412-B, TIP No. 34802.1.1
 Former McCarty Automotive Property, Parcel #126
 Greensboro, North Carolina
 MACTEC Job No. 6470-10-0244

Analytical Method →		EPA 8015	EPA 8015
Contaminant of Concern →		TPH-DRO	TPH-GRO
Sample ID	Date Collected	Sample Depth	mg/Kg
SB-1	11/10/2010	5'-6'	6.0 J
SB-2	11/10/2010	0'-1'	150
SB-3	11/10/2010	7'-8'	9.7
SB-4	11/10/2010	7'-8'	<10
SB-5	11/10/2010	7'-8'	<10
SB-6	11/10/2010	7'-8'	<9.9
SB-7	11/10/2010	7'-8'	19
SB-8	11/10/2010	7'-8'	7.7 J
SB-9	11/10/2010	7'-8'	7.3 J
SB-10	11/10/2010	7'-8'	4.1 J
NCDENR Action Level			10

Notes:

- NCDENR North Carolina Department of Environment and Natural Resources
- Bold** Concentration exceeds Reporting Limit (RL)
- Bold** Concentration exceeds the NCDENR Action Level
- J Analyte detected below the RL; therefore, result is an estimated concentration.
- <# Analyte not detected above the RL

Prepared by: MTG Date: 12/1/10

Checked by: CBS Date: 12/9/10

APPENDIX A

SCHNABEL GEOPHYSICS REPORT



December 7, 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: Project 09210013.30 Report on Geophysical Surveys
 Parcel 126, Guilford County, North Carolina**

Dear Mr. Miller:

SCHNABEL ENGINEERING SOUTH, PC (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 two 8.5x11 color figures.

INTRODUCTION

The work described in this report was conducted on November 1 and 2, 2010, by Schnabel under our 2009 contract with the NCDOT. The work was conducted over the accessible areas of the parcel as indicated by the NCDOT to support their environmental assessment of the subject property. Photographs of the parcel are included on Figure 1. The property is located on the southeast corner of the intersection of High Point Road (SR-4121) and Jamison Place in Greensboro, NC. 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, 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.

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

Preliminary results for Parcel 126 were sent to Matt Gillis and Robert Miller of Mactec and Terry Fox of the NCDOT on November 5, 2010.

DISCUSSION OF RESULTS

The contoured EM61 data collected over Parcel 126 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 buried utilities, reinforced concrete, and known site features (Figures 3 and 4). The GPR data collected at the site do not indicate the presence of metallic UST's within the areas surveyed.

CONCLUSIONS

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

The geophysical data do not indicate the presence of metallic UST's in the areas surveyed on the subject property.

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.

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 (4)

FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.30 (U-2412B, GUILFORD CO.)\REPORT\SCHNABEL GEOPHYSICAL REPORT ON U-2412B.DOCX



Parcel 126 – Former McCarty Automotive Property, looking northeast



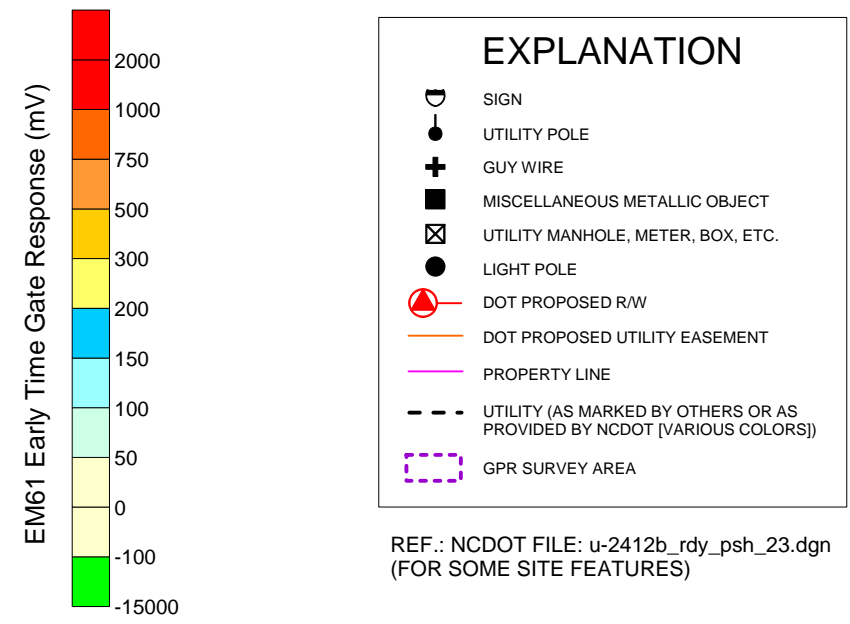
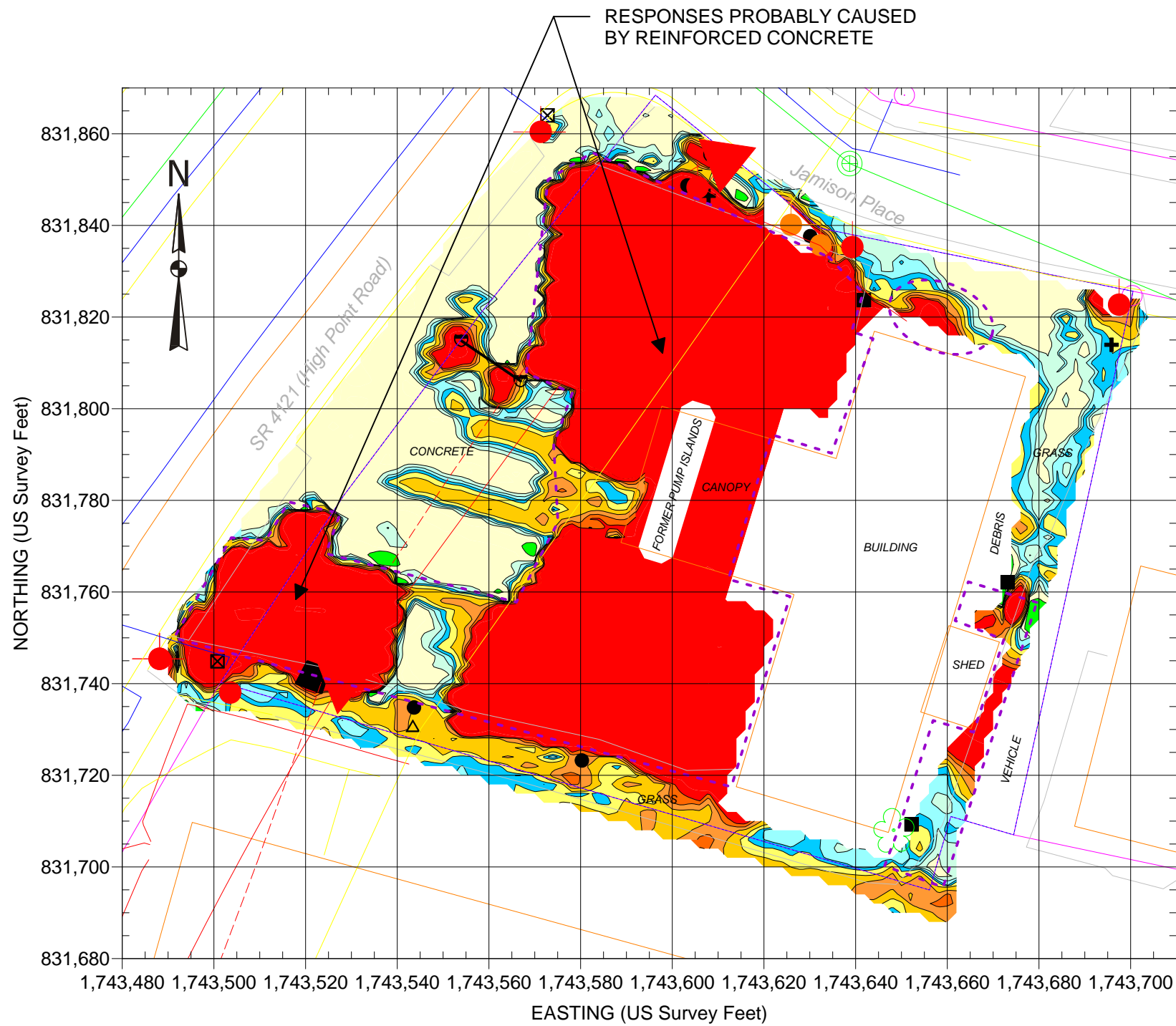
Parcel 126 – Former McCarty Automotive Property, looking southeast



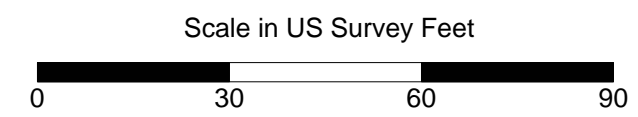
Geonics EM61-MK2



GSSI SIR-3000

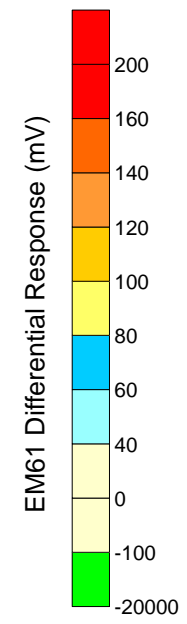
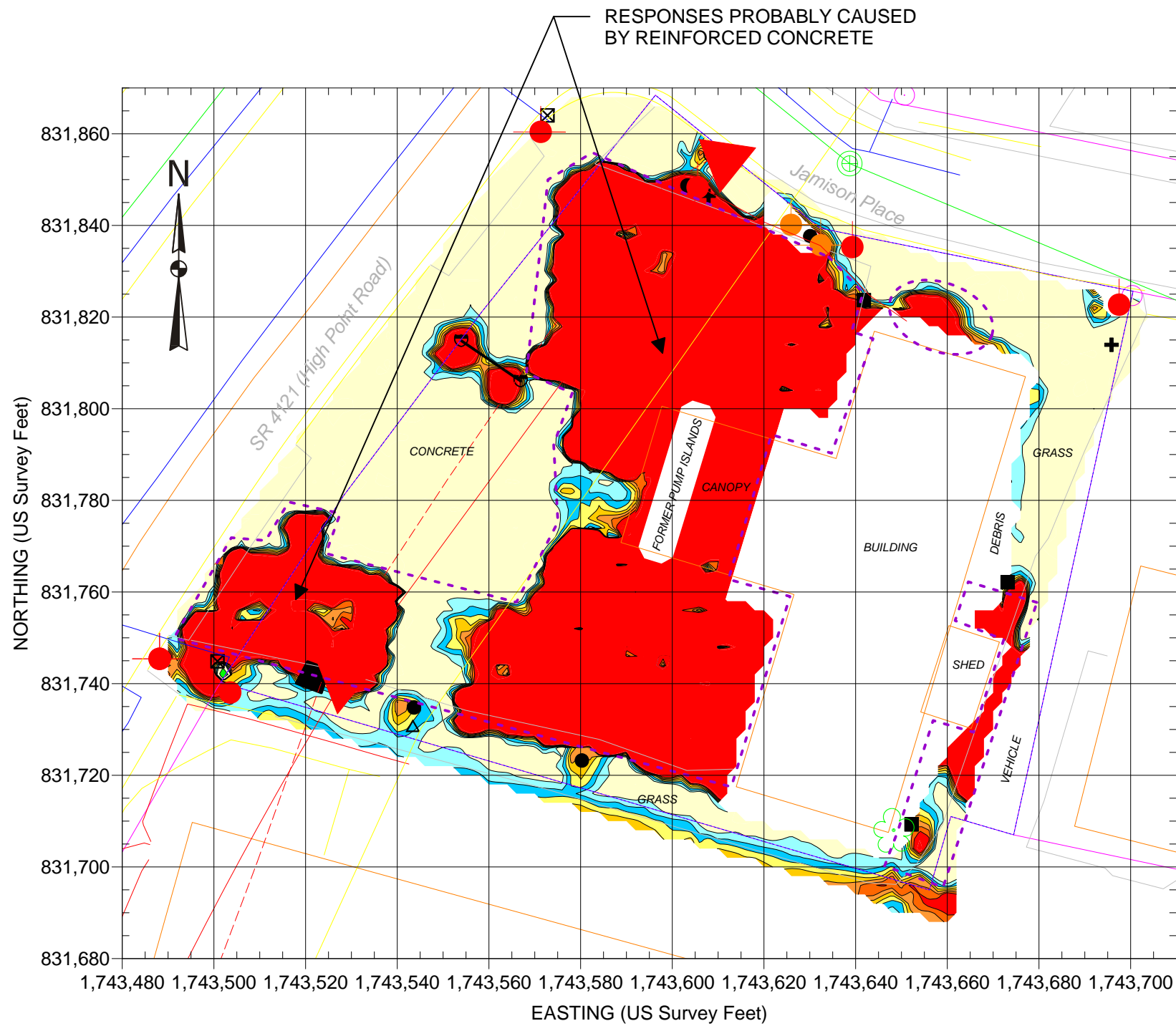


REF.: NCDOT FILE: u-2412b_rdy_psh_23.dgn
(FOR SOME SITE FEATURES)



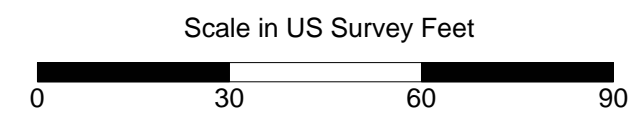
Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on November 1, 2010, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on November 2, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

	<p>STATE PROJECT U-2412B GUILFORD COUNTY, NORTH CAROLINA NC DEPARTMENT OF TRANSPORTATION PROJECT NO. 09210013.30</p>	<p>PARCEL 126 EM61 EARLY TIME GATE RESPONSE FIGURE 3</p>
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EXPLANATION	
	SIGN
	UTILITY POLE
	GUY WIRE
	MISCELLANEOUS METALLIC OBJECT
	UTILITY MANHOLE, METER, BOX, ETC.
	LIGHT POLE
	DOT PROPOSED R/W
	DOT PROPOSED UTILITY EASEMENT
	PROPERTY LINE
	UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT [VARIOUS COLORS])
	GPR SURVEY AREA

REF.: NCDOT FILE: u-2412b_rdy_psh_23.dgn
(FOR SOME SITE FEATURES)



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 November 1, 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 November 2, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

	STATE PROJECT U-2412B GUILFORD COUNTY, NORTH CAROLINA NC DEPARTMENT OF TRANSPORTATION PROJECT NO. 09210013.30	PARCEL 126 EM61 DIFFERENTIAL RESPONSE
	FIGURE 4	

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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0244

Gillis

Date: 11-10-10

Boring ID: SB-1

Depth Interval	Soil Description	Time	HeadSPACE Screening Results (in ppm)		Comments
			PID		
0-1	Top 2" concrete; Dark brown to gray clayey fine to medium sand.		1.2		
1-2	Dark brown to gray clayey fine to medium sand.		1.8		
2-3	Dark brown to gray clayey fine to medium sand.		10.8		
3-4	Dark brown to gray clayey fine to medium sand.		20.6		
4-5	Dark brown to gray clayey fine to medium sand.		64.3		
5-6	Dark brown to gray clayey fine to medium sand.	1040	196		Sample
6-7	Dark brown to gray clayey fine to medium sand.		67.8		
7-8	Dark brown to gray clayey fine to medium sand.		64.4		

Prepared by: MTG Date: 12/9/10

Checked by: CBS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property

MACTEC Project #: 6470-10-0244

MACTEC Field Representative

Gillis

Date: 11-10-10

Boring ID: SB-2

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Top 2" concrete; Dark brown to gray clayey fine to medium sand.	1050	1866		Sample
1-2	Dark brown to gray clayey fine to medium sand.		1158		
2-3	Dark brown to gray clayey fine to medium sand.		1023		
3-4	Dark brown to gray clayey fine to medium sand.		106		
4-5	Dark brown to gray clayey fine to medium sand.		110		
5-6	Dark brown to gray clayey fine to medium sand.		45.2		
6-7	Dark brown to gray clayey fine to medium sand.		22.7		
7-8	Dark brown to gray clayey fine to medium sand.		19.2		

Prepared by: MSG Date: 12/9/10

Checked by: CBS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property
 MACTEC Project #: 6470-10-0244

MACTEC Field Representative
 Gillis

Date: 11-10-10

Boring ID: SB-3

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Top 2" topsoil and gravel; Dark brown to green clayey fine to medium sand.		0.0		
1-2	Dark brown to green clayey fine to medium sand.		0.0		
2-3	Dark brown to green clayey fine to medium sand.		0.0		
3-4	Dark brown to green clayey fine to medium sand.		0.0		
4-5	Dark brown to green clayey fine to medium sand.		0.0		
5-6	Dark brown to green clayey fine to medium sand.		0.0		
6-7	Dark brown to green clayey fine to medium sand.		0.0		
7-8	Dark brown to green clayey fine to medium sand.	1105	0.0		Sample

Prepared by: MOG Date: 12/9/10

Checked by: BS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0244

Gillis

Date: 11-10-10

Boring ID: SB-4

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Dark brown to gray clayey fine to medium sand.		0.0		
1-2	Dark brown to gray clayey fine to medium sand.		0.0		
2-3	Brown clayey, silty fine to medium sand.		0.0		
3-4	Brown clayey, silty fine to medium sand.		0.0		
4-5	Light brown clayey, silty fine to medium sand.		0.0		
5-6	Light brown clayey, silty fine to medium sand.		0.0		
6-7	Light brown clayey, silty fine to medium sand.		0.0		
7-8	Light brown clayey, silty fine to medium sand.	1115	0.0		Sample

Prepared by: MJU Date: 12/9/10

Checked by: CBS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0244

Gillis

Date: 11-10-10

Boring ID: SB-5

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Brown silty, clayey fine to medium sand.		0.0		
1-2	Brown silty, clayey fine to medium sand.		0.0		
2-3	Brown silty, clayey fine to medium sand.		0.0		
3-4	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
4-5	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
5-6	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
6-7	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
7-8	Light brown to reddish brown silty, clayey fine to medium sand.	1125	0.0		Sample

Prepared by: MJC Date: 12/4/10

Checked by: CBS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0244

Gillis

Date: 11-10-10

Boring ID: SB-6

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Brown silty, clayey fine to medium sand.		0.0		
1-2	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
2-3	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
3-4	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
4-5	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
5-6	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
6-7	Light brown to reddish brown silty, clayey fine to medium sand.		0.0		
7-8	Light brown to reddish brown silty, clayey fine to medium sand.	1135	0.0		Sample

Prepared by: MSU Date: 12/9/10

Checked by: QBS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property
 MACTEC Project #: 6470-10-0244

MACTEC Field Representative
 Gillis

Date: 11-10-10

Boring ID: SB-7

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Top 2" concrete; Dark brown to gray silty, clayey fine to medium sand with gravel.		0.0		
1-2	Dark brown to gray silty, clayey fine to medium sand with gravel.		0.0		
2-3	Dark brown to gray silty, clayey fine to medium sand with gravel.		0.0		
3-4	Dark brown to gray silty, clayey fine to medium sand with gravel.		0.0		
4-5	Dark brown to gray silty, clayey fine to medium sand with gravel.		0.0		
5-6	Dark brown to gray silty, clayey fine to medium sand with gravel.		0.0		
6-7	Dark brown to gray silty, clayey fine to medium sand with gravel.		0.0		
7-8	Dark brown to gray silty, clayey fine to medium sand with gravel.	1145	0.0		Sample

Prepared by: MJG Date: 12/9/10

Checked by: CBS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property

MACTEC Project #: 6470-10-0244

MACTEC Field Representative

Gillis

Date: 11-10-10

Boring ID: SB-8

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Top 2" concrete; Gray silty, clayey fine to medium sand.		0.0		
1-2	Gray silty, clayey fine to medium sand.		0.0		
2-3	Gray silty, clayey fine to medium sand.		0.0		
3-4	Gray silty, clayey fine to medium sand.		3.5		
4-5	Gray silty, clayey fine to medium sand.		5.5		
5-6	Gray silty, clayey fine to medium sand.		6.5		
6-7	Reddish brown to green silty fine to medium sand.		7.1		
7-8	Reddish brown to green silty fine to medium sand.	1200	8.1		Sample

Prepared by: MAJG Date: 12/9/10

Checked by: CBS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0244

Gillis

Date: 11-10-10

Boring ID: SB-9

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Top 2" concrete; Green silty, clayey fine to medium sand.		0.0		Minimal recovery from
1-2	Green silty, clayey fine to medium sand.		0.0		4'-8' below ground surface.
2-3	Green silty, clayey fine to medium sand.		0.0		
3-4	Green silty, clayey fine to medium sand.		0.0		
4-5	Green silty, clayey fine to medium sand.		0.0		
5-6	Green silty, clayey fine to medium sand.		0.0		
6-7	Green silty, clayey fine to medium sand.		0.0		
7-8	Green silty, clayey fine to medium sand.	1210	0.0		Sample

Prepared by: MJG Date: 12/9/10

Checked by: CBS Date: 12/9/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Greensboro, Former McCarty Automotive Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0244

Gillis

Date: 11-10-10

Boring ID: SB-10

Depth Interval	Soil Description	Time	Headspace Screening Results (in ppm)		Comments
			PID		
0-1	Top 2" concrete; Brown to green clayey fine to medium sand.		0.0		
1-2	Brown to green clayey fine to medium sand.		0.0		
2-3	Brown to green clayey fine to medium sand.		0.0		
3-4	Brown to green clayey fine to medium sand.		0.0		
4-5	Brown to green clayey fine to medium sand.		0.0		
5-6	Brown to green clayey fine to medium sand.		0.0		
6-7	Brown to green clayey fine to medium sand.		1.2		
7-8	Brown to green clayey fine to medium sand.	1240	2.4		Sample

Prepared by: AMG Date: 12/9/10

Checked by: CBS Date: 12/9/10

APPENDIX D

**LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY RECORDS**

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

Project: NCDOT Greensboro
Project No.: WBS 34802.1.1
Lab Submittal Date: 11/11/2010
Prism Work Order: 0110391

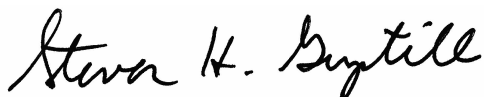
This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

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

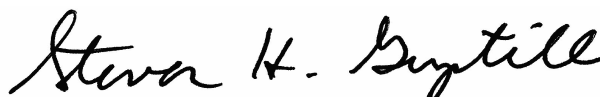
Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.



Project Manager



Reviewed By

Data Qualifiers Key Reference:

A	Insufficient methanol in vials for 5035 analysis. Sample was prepared and analyzed as 5030.
DO	Surrogates diluted out.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
SR	Surrogate recovery outside the QC limits.
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.

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SB-1	0110391-01	Soil	11/10/10	11/11/10
SB-2	0110391-02	Soil	11/10/10	11/11/10
SB-3	0110391-03	Soil	11/10/10	11/11/10
SB-4	0110391-04	Soil	11/10/10	11/11/10
SB-5	0110391-05	Soil	11/10/10	11/11/10
SB-6	0110391-06	Soil	11/10/10	11/11/10
SB-7	0110391-07	Soil	11/10/10	11/11/10
SB-8	0110391-08	Soil	11/10/10	11/11/10
SB-9	0110391-09	Soil	11/10/10	11/11/10
SB-10	0110391-10	Soil	11/10/10	11/11/10

Samples received in good condition at 2.9 degrees C unless otherwise noted.

Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 At Project No.: WBS 34802.1.1
 Raleigh, NC 27604 Sample Matrix: Soil

Client Sample ID: SB-1
 Prism Sample ID: 0110391-01
 Prism Work Order: 0110391
 Time Collected: 11/10/10 10:40
 Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	6.0 J	mg/kg dry	10	1.6	1	8015C	11/16/10 11:11	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			70 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	56	mg/kg dry	10	1.3	50	8015C	11/19/10 1:36	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			94 %		55-129	
General Chemistry Parameters									
% Solids	70.1	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460

Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 At Project No.: WBS 34802.1.1
 Raleigh, NC 27604 Sample Matrix: Soil

Client Sample ID: SB-2
 Prism Sample ID: 0110391-02
 Prism Work Order: 0110391
 Time Collected: 11/10/10 10:50
 Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	150	mg/kg dry	8.0	1.3	1	8015C	11/16/10 11:44	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			76 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	6800	mg/kg dry	440	57	5000	8015C	11/18/10 10:51	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			0 %		55-129	DO
General Chemistry Parameters									
% Solids	87.2	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460

Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 At Project No.: WBS 34802.1.1
 Raleigh, NC 27604 Sample Matrix: Soil

Client Sample ID: SB-3
 Prism Sample ID: 0110391-03
 Prism Work Order: 0110391
 Time Collected: 11/10/10 11:05
 Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	9.7	mg/kg dry	9.7	1.6	1	8015C	11/16/10 12:19	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			75 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.0	0.79	50	8015C	11/17/10 19:34	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			118 %		55-129	
General Chemistry Parameters									
% Solids	72.4	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460

Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 At Project No.: WBS 34802.1.1
 Raleigh, NC 27604 Sample Matrix: Soil

Client Sample ID: SB-4
 Prism Sample ID: 0110391-04
 Prism Work Order: 0110391
 Time Collected: 11/10/10 11:15
 Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	10	1.6	1	8015C	11/16/10 12:55	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			72 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	6.8	0.89	50	8015C	11/17/10 20:05	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			168 %		55-129	SR

General Chemistry Parameters

% Solids	69.5	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460
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Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301 At
Raleigh, NC 27604

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

Client Sample ID: SB-5
Prism Sample ID: 0110391-05
Prism Work Order: 0110391
Time Collected: 11/10/10 11:25
Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	10	1.6	1	8015C	11/16/10 13:30	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			61 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	6.4	0.84	50	8015C	11/17/10 20:36	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			187 %		55-129	SR

General Chemistry Parameters

% Solids	68.5	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460
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Mactec - Raleigh (NCDOT Project)
Attn: Matt Gillis
c/o MACTEC Eng. & Consulting, Inc, 3301 At
Raleigh, NC 27604

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

Client Sample ID: SB-6
Prism Sample ID: 0110391-06
Prism Work Order: 0110391
Time Collected: 11/10/10 11:35
Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	9.9	1.6	1	8015C	11/16/10 18:16	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			71 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.8	0.76	50	8015C	11/17/10 21:07	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			115 %		55-129	

General Chemistry Parameters

% Solids	71.0	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460
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Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 At Project No.: WBS 34802.1.1
 Raleigh, NC 27604 Sample Matrix: Soil

Client Sample ID: SB-7
 Prism Sample ID: 0110391-07
 Prism Work Order: 0110391
 Time Collected: 11/10/10 11:45
 Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	19	mg/kg dry	8.0	1.3	1	8015C	11/16/10 15:17	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			74 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.6	0.60	50	8015C	11/17/10 21:38	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			127 %		55-129	
General Chemistry Parameters									
% Solids	87.4	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460

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

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

Client Sample ID: SB-8
Prism Sample ID: 0110391-08
Prism Work Order: 0110391
Time Collected: 11/10/10 12:00
Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	7.7 J	mg/kg dry	8.6	1.4	1	8015C	11/16/10 16:29	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			66 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.8	0.62	50	8015C	11/17/10 22:09	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			117 %		55-129	
General Chemistry Parameters									
% Solids	80.6	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460

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

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

Client Sample ID: SB-9
Prism Sample ID: 0110391-09
Prism Work Order: 0110391
Time Collected: 11/10/10 12:10
Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	7.3 J	mg/kg dry	9.4	1.5	1	8015C	11/16/10 15:53	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			62 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.8	0.63	50	8015C	11/17/10 22:40	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			107 %		55-129	
General Chemistry Parameters									
% Solids	73.9	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460

Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 At Project No.: WBS 34802.1.1
 Raleigh, NC 27604 Sample Matrix: Soil

Client Sample ID: SB-10
 Prism Sample ID: 0110391-10
 Prism Work Order: 0110391
 Time Collected: 11/10/10 12:40
 Time Submitted: 11/11/10 14:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	4.1 J	mg/kg dry	9.7	1.6	1	8015C	11/16/10 17:40	JMV	P0K0432
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			58 %		49-124	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.5	0.72	50	8015C	11/17/10 23:11	HPE	P0K0477
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			121 %		55-129	
General Chemistry Parameters									
% Solids	71.8	% by Weight	0.100	0.100	1	*SM2540 G	11/16/10 15:00	JAB	P0K0460

Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 Al Project No: WBS 34802.1.1
 Raleigh, NC 27604

Prism Work Order: 0110391
 Time Submitted: 11/11/2010 2:50:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0K0477 - 5035										
Blank (P0K0477-BLK1) Prepared & Analyzed: 11/17/10										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	5.50		mg/kg wet	5.00		110	55-129			
LCS (P0K0477-BS1) Prepared & Analyzed: 11/17/10										
Gasoline Range Organics	44.4	5.0	mg/kg wet	50.0		89	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.50		mg/kg wet	5.00		110	55-129			
LCS Dup (P0K0477-BSD1) Prepared & Analyzed: 11/17/10										
Gasoline Range Organics	44.6	5.0	mg/kg wet	50.0		89	67-116	0.7	200	
Surrogate: a,a,a-Trifluorotoluene	5.55		mg/kg wet	5.00		111	55-129			
Matrix Spike (P0K0477-MS1) Source: 0110391-01 Prepared & Analyzed: 11/17/10										
Gasoline Range Organics	102	7.1	mg/kg dry	71.3	56.3	64	57-113			
Surrogate: a,a,a-Trifluorotoluene	9.91		mg/kg dry	7.13		139	55-129			SR
Matrix Spike Dup (P0K0477-MSD1) Source: 0110391-01 Prepared & Analyzed: 11/17/10										
Gasoline Range Organics	100	7.1	mg/kg dry	71.3	56.3	61	57-113	2	23	
Surrogate: a,a,a-Trifluorotoluene	9.84		mg/kg dry	7.13		138	55-129			SR

Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 AlProject No: WBS 34802.1.1
 Raleigh, NC 27604

Prism Work Order: 0110391
 Time Submitted: 11/11/2010 2:50:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0K0432 - 3545A										
Blank (P0K0432-BLK1)										
Prepared & Analyzed: 11/15/10										
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: <i>o</i> -Terphenyl	1.28		mg/kg wet	1.60		80	49-124			
LCS (P0K0432-BS1)										
Prepared & Analyzed: 11/15/10										
Diesel Range Organics	60.2	7.0	mg/kg wet	79.9		75	55-109			
Surrogate: <i>o</i> -Terphenyl	1.71		mg/kg wet	1.60		107	49-124			
LCS Dup (P0K0432-BSD1)										
Prepared & Analyzed: 11/15/10										
Diesel Range Organics	58.6	7.0	mg/kg wet	79.9		73	55-109	3	200	
Surrogate: <i>o</i> -Terphenyl	1.73		mg/kg wet	1.60		108	49-124			
Matrix Spike (P0K0432-MS1)										
Source: 0110391-04 Prepared: 11/15/10 Analyzed: 11/16/10										
Diesel Range Organics	78.1	10	mg/kg dry	115	BRL	68	50-117			
Surrogate: <i>o</i> -Terphenyl	2.20		mg/kg dry	2.29		96	49-124			
Matrix Spike Dup (P0K0432-MSD1)										
Source: 0110391-04 Prepared: 11/15/10 Analyzed: 11/16/10										
Diesel Range Organics	84.3	10	mg/kg dry	115	BRL	73	50-117	8	24	
Surrogate: <i>o</i> -Terphenyl	2.43		mg/kg dry	2.30		106	49-124			

Mactec - Raleigh (NCDOT Project) Project: NCDOT Greensboro
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc, 3301 Al Project No: WBS 34802.1.1
 Raleigh, NC 27604

Prism Work Order: 0110391
 Time Submitted: 11/11/2010 2:50:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0K0460 - NO PREP

Blank (P0K0460-BLK1) Prepared & Analyzed: 11/16/10

% Solids	100	0.100	% by Weight							
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Duplicate (P0K0460-DUP1) Source: 0110391-08 Prepared & Analyzed: 11/16/10

% Solids	75.9	0.100	% by Weight		80.6			6	20	
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Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0110391-01	P0K0432	25.01 g	1 mL	11/15/10
0110391-02	P0K0432	25.03 g	1 mL	11/15/10
0110391-03	P0K0432	25.04 g	1 mL	11/15/10
0110391-04	P0K0432	25.07 g	1 mL	11/15/10
0110391-05	P0K0432	25.04 g	1 mL	11/15/10
0110391-06	P0K0432	25.02 g	1 mL	11/15/10
0110391-07	P0K0432	25.08 g	1 mL	11/15/10
0110391-08	P0K0432	25.11 g	1 mL	11/15/10
0110391-09	P0K0432	25.17 g	1 mL	11/15/10
0110391-10	P0K0432	25.12 g	1 mL	11/15/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0110391-01	P0K0477	3.56 g	5 mL	11/17/10
0110391-02	P0K0477	6.49 g	5 mL	11/17/10
0110391-03	P0K0477	5.71 g	5 mL	11/17/10
0110391-04	P0K0477	5.26 g	5 mL	11/17/10
0110391-05	P0K0477	5.66 g	5 mL	11/17/10
0110391-06	P0K0477	6.03 g	5 mL	11/17/10
0110391-07	P0K0477	6.18 g	5 mL	11/17/10
0110391-08	P0K0477	6.48 g	5 mL	11/17/10
0110391-09	P0K0477	7.02 g	5 mL	11/17/10
0110391-10	P0K0477	6.31 g	5 mL	11/17/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0110391-01	P0K0460	30 g	30 mL	11/16/10
0110391-02	P0K0460	30 g	30 mL	11/16/10
0110391-03	P0K0460	30 g	30 mL	11/16/10
0110391-04	P0K0460	30 g	30 mL	11/16/10
0110391-05	P0K0460	30 g	30 mL	11/16/10
0110391-06	P0K0460	30 g	30 mL	11/16/10
0110391-07	P0K0460	30 g	30 mL	11/16/10
0110391-08	P0K0460	30 g	30 mL	11/16/10
0110391-09	P0K0460	30 g	30 mL	11/16/10
0110391-10	P0K0460	30 g	30 mL	11/16/10



Full-Service Analytical & Environmental Solutions

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

Client Company Name: MACTEC

Report To/Contact Name: Matthew Gillis

Reporting Address: 3301 Atlantic Ave Raleigh NC 27604

Phone: 919 876 0416 Fax (Yes) (No):

Email (Yes) (No) Email Address: mjgillis@mactec.com

EDD Type: PDF Excel Other

Site Location Name: NCDOT Greensboro Former McLarty Auto

Site Location Physical Address: 4601 High Point Road

CHAIN OF CUSTODY RECORD

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

Project Name: NCDOT Greensboro Former McLarty Auto

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: ACDOT

Address: 42412 B Tip No 34802.1.1

Purchase Order No./Billing Reference _____

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

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

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

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp <u>2.9</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC USACE FL NC

SC OTHER N/A

Water Chlorinated: YES NO

Sample Iced Upon Collection: YES NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED				REMARKS	PRISM LAB ID NO.	
				*TYPE SEE BELOW	NO.	SIZE		DRD	GRO					
SB-1	11-10-10	1040	SOIL	C + VOA	4		None method	X	X					01
SB-2	↓	1050	↓	↓	↓	↓	↓	X	X					02
SB-3		1105						X	X					03
SB-4		1115						X	X					04
SB-5		1125						X	X					05
SB-6		1135						X	X					06
SB-7		1145						X	X					07
SB-8		1200						X	X					08
SB-9		1210						X	X					09
SB-10		1240						X	X					10

Sampler's Signature: Matthew Gillis Sampled By (Print Name): Matthew Gillis Affiliation: MACTEC

PRESS DOWN FIRMLY - 3 COPIES

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

Relinquished By: (Signature) <u>Matthew Gillis</u>	Received By: (Signature) <u>Alex Wood</u>	Date	Military/Hours	Additional Comments: <u>Relinquished to Alex Wood 11/11/10 1450</u>
Relinquished By: (Signature) <u>Alex Wood</u>	Received By: (Signature) <u>Prism Lab</u>	11/11/10	1040	
Relinquished By: (Signature) <u>Prism Lab</u>	Received For: Prism Laboratories By: <u>Prism Lab</u>	11/11/10	1050	
Method of Shipment: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Hand-delivered <input type="checkbox"/> Prism Field Service <input type="checkbox"/> Other	NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.	11/11/10	1300	
		COC Group No. <u>0110391</u>		

PRISM USE ONLY

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

SEE REVERSE FOR TERMS & CONDITIONS
Page 17 of 17
ORIGINAL

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

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