

REPORT OF PRELIMINARY SITE ASSESSMENT

**CLAUDE E. WHITT PROPERTY, PARCEL #18
STATE PROJECT U-2550B, TIP NO. 34831.1.1
2507 SOUTH STERLING STREET
MORGANTON, NORTH CAROLINA**

Prepared for:

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

Prepared by:

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

May 3, 2010

MACTEC Project No. 6470-10-0057



engineering and constructing a better tomorrow

May 3, 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
Claude E. Whitt Property, Parcel #18
State Project U-2550B, TIP No. 34831.1.1
2507 South Sterling Street
Morganton, North Carolina
MACTEC Project No. 6470-10-0057**

Dear Mr. Fox:

As authorized by Cathy Houser's acceptance of MACTEC Proposal No. PROP 10-RAL-126 dated March 10, 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.

Matthew J. Gillis
Staff Scientist

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



5-3-10

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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 Claude E. Whitt property (Whitt property) located at 2507 South Sterling Street in Morganton, Burke 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-2550B. 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 Whitt property is located at 2507 South Sterling Street in Morganton, Burke County, North Carolina. The site is developed with a Discount Beverage convenience store and a mobile home supply store. The Burke County Geographic Information Services (GIS) identifies the site as parcel identification number (PIN) 2712373256. The site is bound to the northeast by an automobile junkyard; to the southeast by wooded undeveloped land; to the southwest by South Sterling Street, across which is a single-family residence; and to the northwest by wooded undeveloped land and an automobile junkyard (Figure 2).

1.2 Background Information

The gas station building is 1,908 square feet and is constructed with a slab-on-grade concrete foundation and a cinderblock and wood paneling exterior. The asphalt parking lot provides access to South Sterling Street. According to NCDOT the current owners have no records of a gas station being present on this property. The building design is similar to gas stations operating in the 1960's through the 1980's. There is not a record of USTs having been on this property and contamination has not been identified at this property.

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 did not identify anomalies that may be USTs in the right-of-way. Schnabel's Geophysical Survey Report is included in Appendix A.

2.1 Soil Assessment

On April 1, 2010, Troxler Geologic Services, Inc. (Troxler), under contract to MACTEC, advanced six soil borings (Nos. SB-7 through SB-12) at the subject site using a Geoprobe™ direct-push technology. Soil boring locations were selected based on the proposed NCDOT right-of-way, results

of the geophysical investigation and field observations. Soil boring SB-12 was placed across the Whitt property boundary onto the Edwin Arrowood property at the request of Mr. Terry Fox, Geoenvironmental Manager for NCDOT. 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 Troxler 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 SB-7 through SB-12 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 hydrocarbon (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 borings SB-7 through SB-12 at concentrations that exceed the laboratory reporting limits.

4.0 CONCLUSIONS AND RECOMMENDATIONS

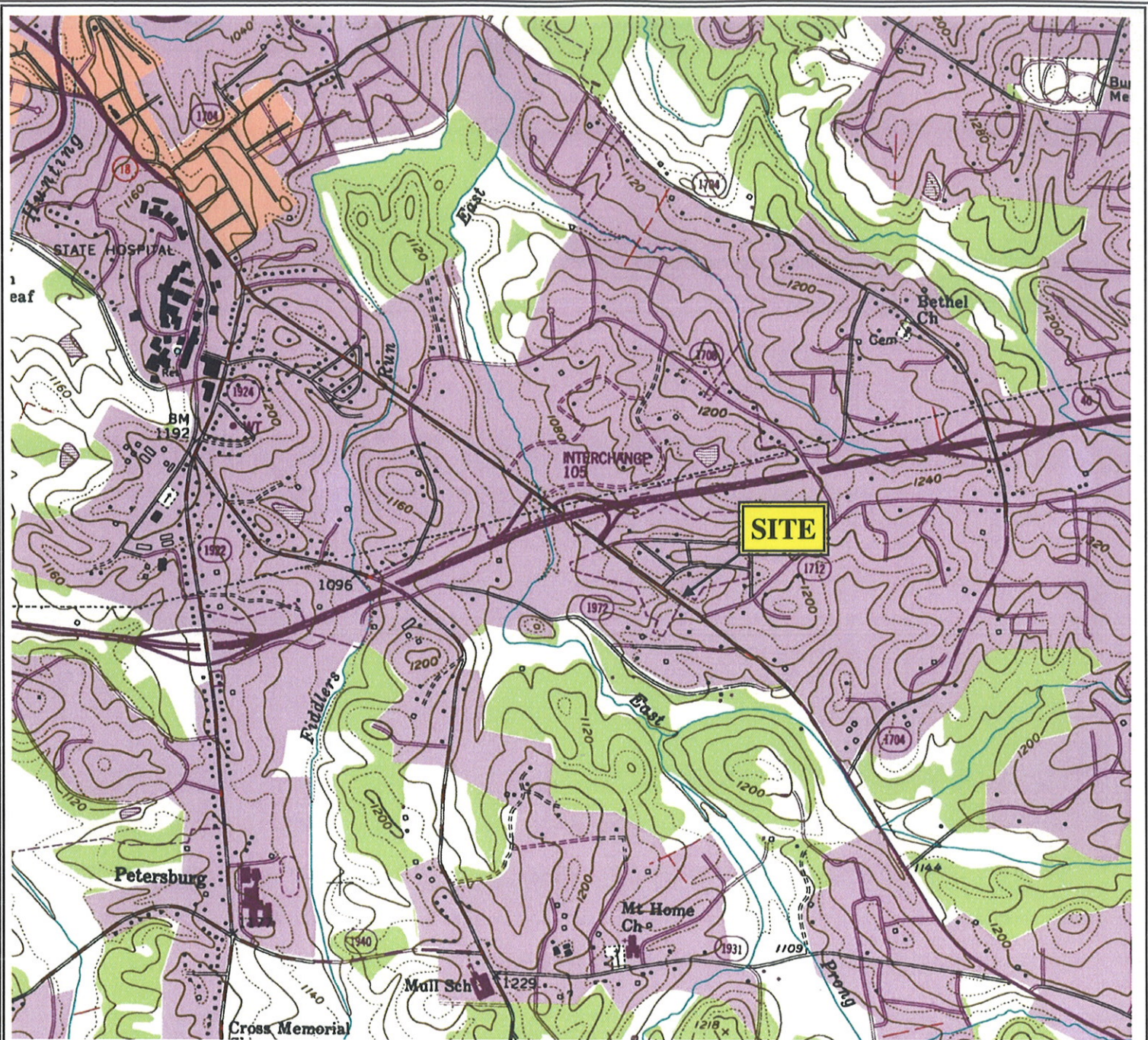
Based on the Preliminary Site Assessment, MACTEC offers the following conclusions and recommendations:

- MACTEC did not find evidence of a petroleum release in the vicinity of soil borings SB-7 through SB-12.
- MACTEC does not have evidence to support the need for further environmental assessment by NCDOT at this time.

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



MORGANTON SOUTH, NC
35081-F6-TF-024

1993

DMA 4655 II NW-SERIES V842

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

NOTE: SITE LOCATION IS APPROXIMATE

MACTEC

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

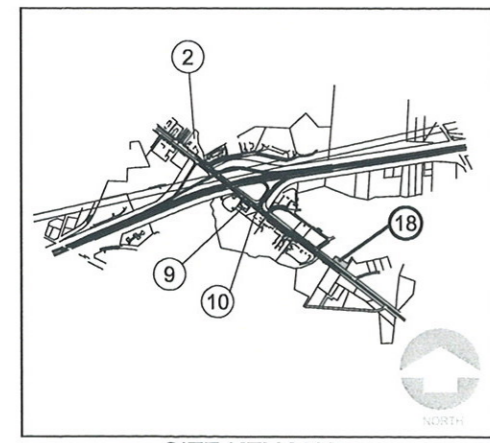
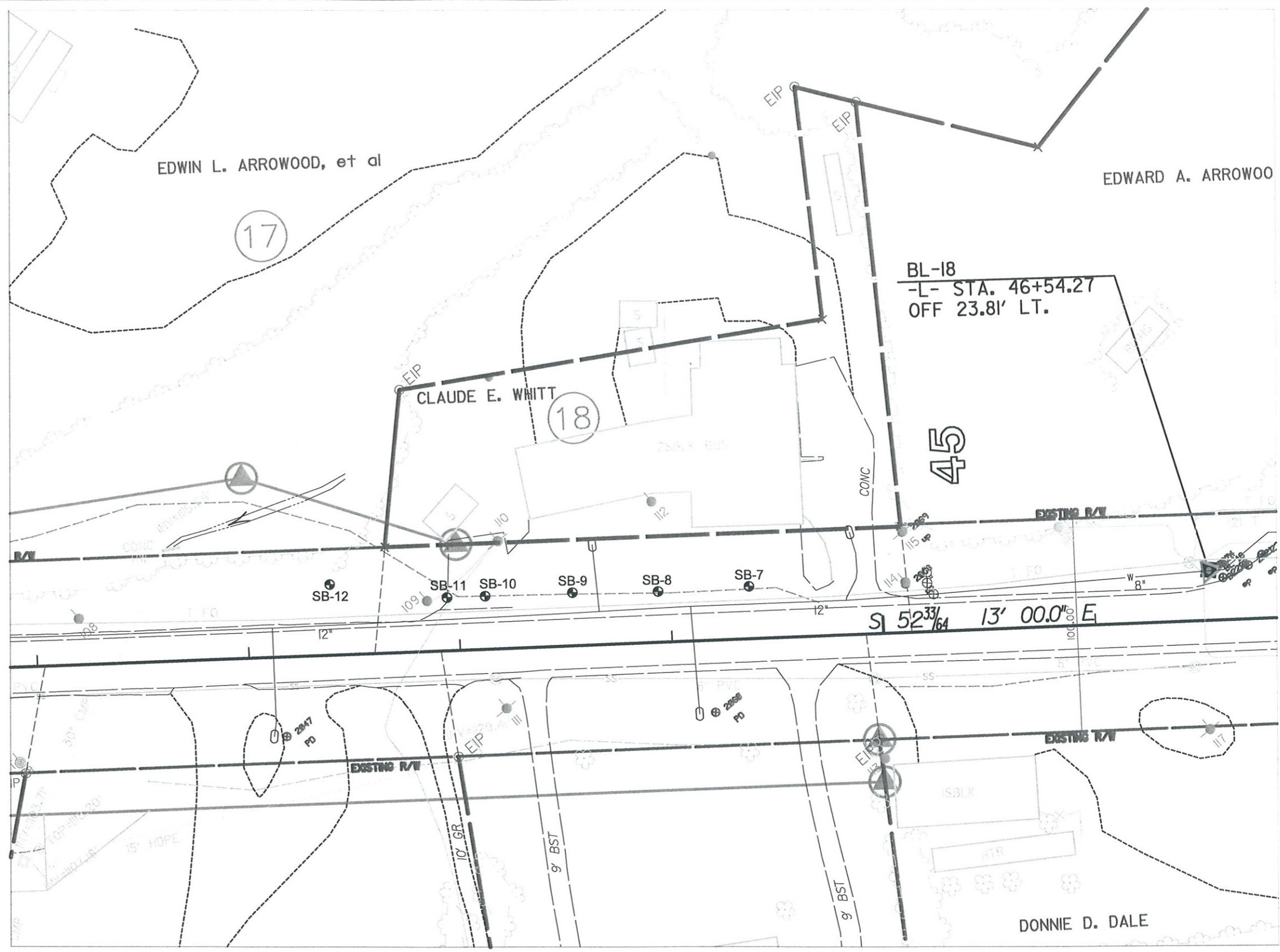
TOPOGRAPHIC SITE MAP
CLAUDE E. WHITT PROPERTY
PARCEL #18
MORGANTON, NORTH CAROLINA

| | | |
|------------------------------|-------------------|---------------------|
| DRAWN: MJG | DATE: APRIL 2010 | DRAWING 1 |
| ENG CHECK: <i>CBS</i> | SCALE: 1 : 24000 | |
| APPROVAL: <i>[Signature]</i> | JOB: 6470-10-0057 | |

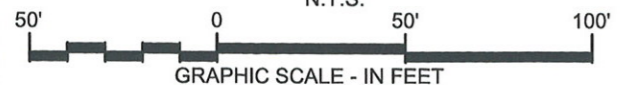


LEGEND:

- EXISTING PROPERTY LINE
- EXISTING RIGHT OF WAY LINE
- - - EXISTING ROAD SOILS
- SS EXISTING UTILITY UG SANITARY SEWER LINE
- W EXISTING UTILITY UG WATER LINE
- EXISTING STRUCTURE
- ⊙ PROPOSED RIGHT OF WAY LINE
- PUE PROPOSED EASEMENT PERMANENT UTILITY
- ⊙ EXISTING VEGETATION TREE
- ⊙ EXISTING VEGETATION WOOD LINE
- EXISTING UTILITY POLE
- ⊕ SB- SOIL BORING LOCATION



SITE KEY MAP
N.T.S.



P:\6470\10\0057 DOT Morganton Sites\Drawings\MS Files\Base Plan Final.dwg Mon, 03 May 2010 - 12:49pm rmbile



SITE LOCATION MAP
CLAUDE E. WHITT PROPERTY, PARCEL #18
NCDOT PROJECT NO. U-2550B
MORGANTON, NORTH CAROLINA

| | |
|-------------------------------|-----------------------|
| DRAWN: R.R. | DATE: MAY 2010 |
| ENG CHECK: <i>[Signature]</i> | SCALE: AS SHOWN |
| APPROVAL: <i>[Signature]</i> | JOB No.: 6470-10-0057 |

DRAWING
2

REFERENCE: BASE DRAWING PROVIDED BY NCDOT; MACTEC FIELD NOTES.

TABLE

| <p style="text-align: center;">Table 1 Summary of Laboratory Test Results State Project U-2550B, TIP No. 34831.1.1 Claude E. Whitt Property, Parcel #18 Morganton, North Carolina MACTEC Job No. 6470-10-0057</p> | | | | |
|--|----------------|--------------|----------|----------|
| Analytical Method → | | EPA 8015 | EPA 8015 | EPA 8015 |
| Contaminant of Concern → | | TPH-DRO | TPH-DRO | TPH-GRO |
| Sample ID | Date Collected | Sample Depth | mg/Kg | |
| SB-7 | 4/1/2010 | 11'-12' | <8.9 | <6.4 |
| SB-8 | 4/1/2010 | 11'-12' | <9.0 | <6.4 |
| SB-9 | 4/1/2010 | 11'-12' | <8.5 | <6.1 |
| SB-10 | 4/1/2010 | 11'-12' | <8.2 | <5.9 |
| SB-11 | 4/1/2010 | 11'-12' | <10 | <7.4 |
| SB-12 | 4/1/2010 | 11'-12' | <9.1 | <6.5 |
| 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: MJD Date: 4-27-10

Checked by: CBS Date: 4/27/10

APPENDIX A

**SCHNABEL ENGINEERING
GEOPHYSICAL SURVEY REPORT**



April 26, 2010

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

RE: State Project: U-2550B
 WBS Element: 34831.1.1
 County: Burke
 Description: Morganton – NC 18 (Sterling Street) and I-40 Interchange

**Subject: Report on Geophysical Surveys for Parcel 18, Morganton, NC
 Schnabel Engineering Project 09210013.19**

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 two 8.5x11 color figures.

1.0 INTRODUCTION

The work described in this report was conducted on March 24 and 31, 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 18 (Claude and Shirley Whitt Property, Discount Beverage, Inc.). 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

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 18 were sent to Robert Miller and Matt Gillis of Mactec and Terry Fox of the NCDOT on April 2, 2010.

3.0 DISCUSSION OF RESULTS

The contoured EM61 data for Parcel 18 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, buried metal, or known site features (Figures 3 and 4). GPR data collected coincident to the differential EM61 anomaly located immediately south and west of the metal sign, next to the cinder block wall, does not indicate the presence of a metallic UST (Figures 3 and 4). However, that anomaly was partially blocked by a mobile home during GPR data collection. Therefore, our level of confidence is lower than usual, but we believe we have enough GPR data to suggest that it is unlikely that there is a UST in that area. The geophysical data collected on Parcel 18 did not indicate the presence of metallic UST's within the right-of-way and/or easement.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 18 on Project U-2550B in Morganton, NC indicates the following:

The geophysical data do not indicate the presence of metallic UST's in the areas surveyed on Parcel 18.

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 (4)

FILE: G:\2009 PROJECTS\09210013 (NCDOT 2009 GEOTECH UNIT SERVICES)\09210013.19 (U-2550B, BURKE CO.)\REPORT\PARCEL 18\PARCEL 18 (U-3812).DOC



Parcel 18 – Claude and Shirley Whitt Property, looking east



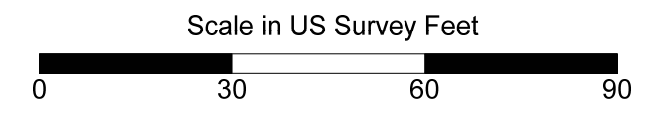
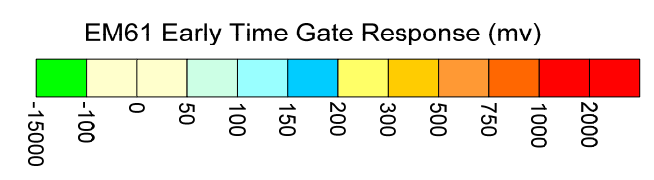
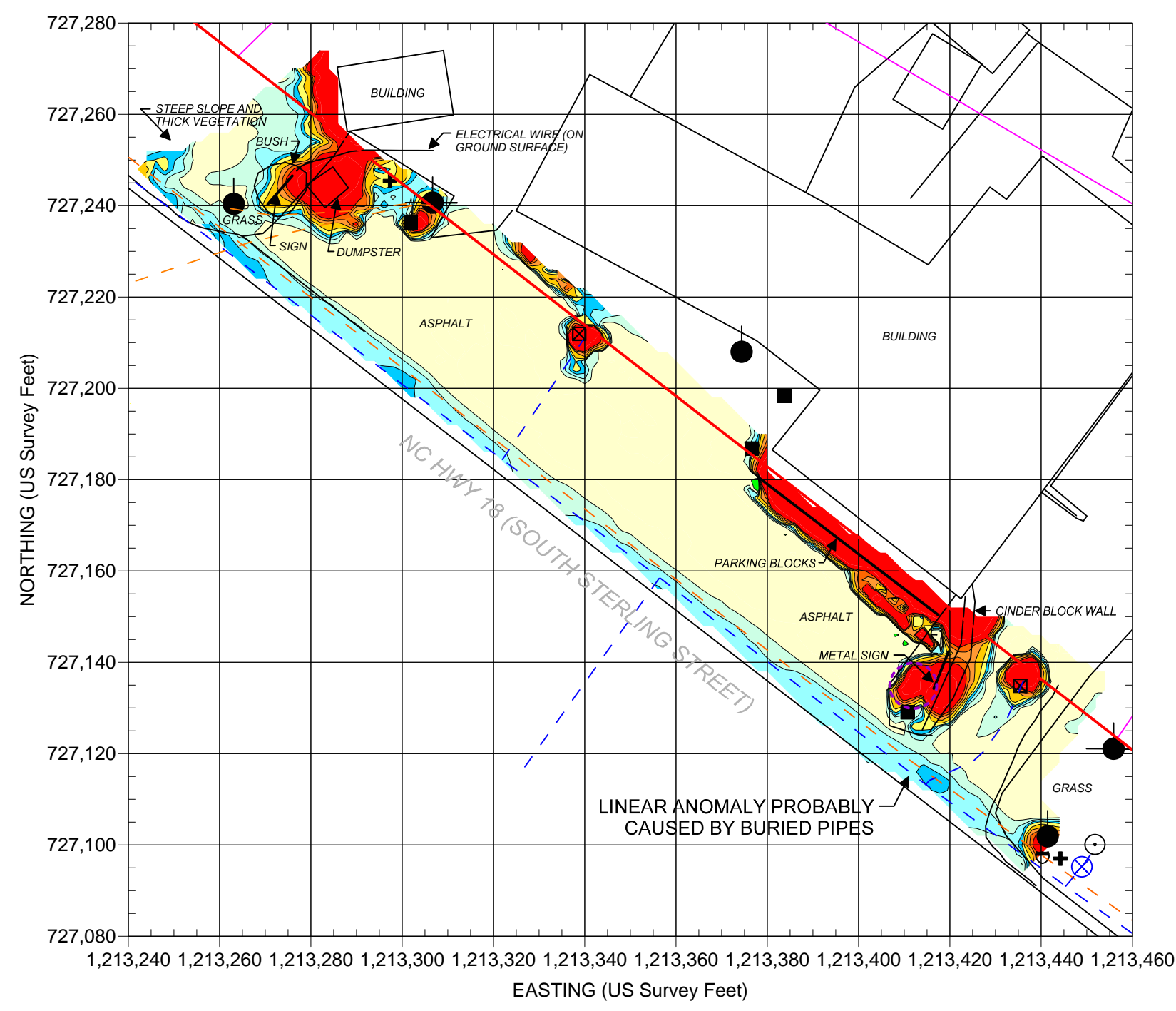
Parcel 18 – Claude and Shirley Whitt Property, looking north



Geonics EM61-MK2



GSSI SIR-3000

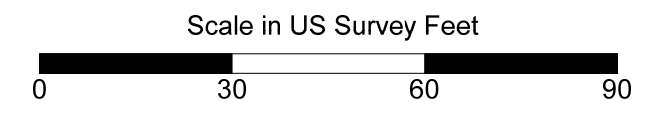
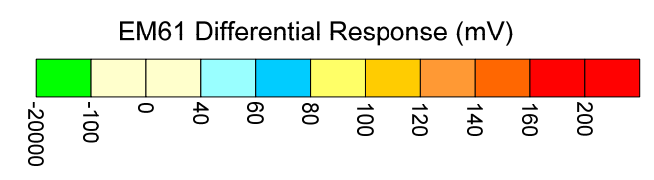
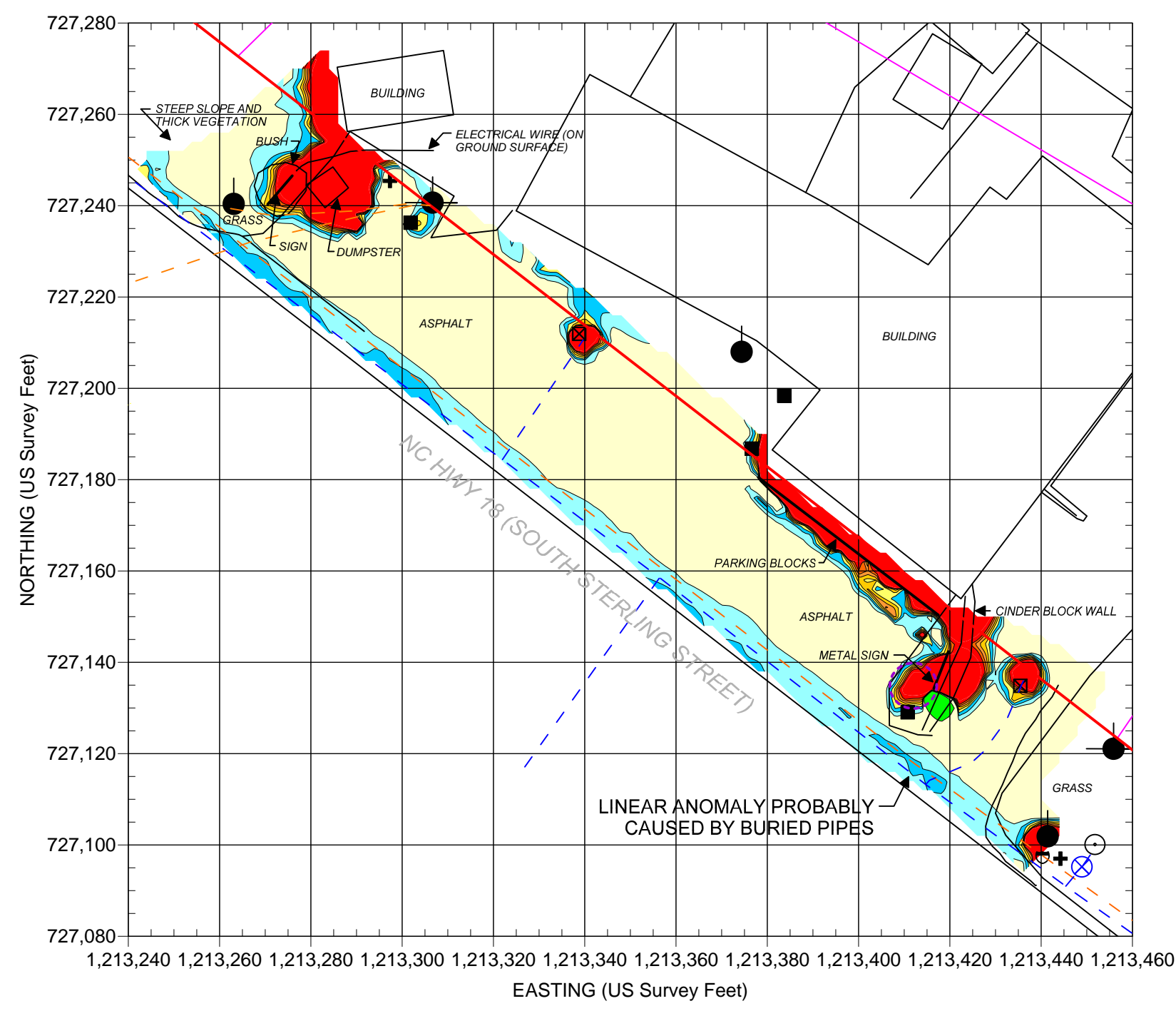


| EXPLANATION | |
|-------------|--|
| | SIGN |
| | UTILITY POLE |
| | GUY WIRE |
| | MISCELLANEOUS METALLIC OBJECT |
| | UTILITY LID |
| | LIGHT POLE |
| | STORM SEWER INLET |
| | UST LID |
| | DOT PROPOSED R/W |
| | DOT PROPOSED UTILITY EASEMENT |
| | PROPERTY LINE |
| | UTILITY (AS MARKED BY OTHERS OR AS PROVIDED BY NCDOT [VARIOUS COLORS]) |
| | GPR SURVEY AREA |

REF.: NCDOT FILE: u2550b_rdy_psh06.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 March 24, 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 March 31, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

| | | |
|--|---|---|
| | <p>STATE PROJECT U-2550B BURKE COUNTY, NORTH CAROLINA NC DEPARTMENT OF TRANSPORTATION PROJECT NO. 09210013.19</p> | <p>PARCEL 18 EM61 EARLY TIME GATE RESPONSE FIGURE 3</p> |
|--|---|---|



| EXPLANATION | |
|-------------|--|
| | SIGN |
| | UTILITY POLE |
| | GUY WIRE |
| | MISCELLANEOUS METALLIC OBJECT |
| | UTILITY LID |
| | 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]) |
| | GPR SURVEY AREA |

REF.: NCDOT FILE: u2550b_rdy_psh06.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 March 24, 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 March 31, 2010, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

| | | |
|--|---|--|
| | <p>STATE PROJECT U-2550B BURKE COUNTY, NORTH CAROLINA NC DEPARTMENT OF TRANSPORTATION PROJECT NO. 09210013.19</p> | <p>PARCEL 18 EM61 DIFFERENTIAL RESPONSE FIGURE 4</p> |
|--|---|--|

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 Morganton
Parcel #18 Claude E. Whitt Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0057

Lloyd

Date: 4/1/2010

Boring ID: SB-7

| Depth Interval | Soil Description | Time | Headspace Screening Results (in ppm) | | Comments |
|----------------|---|------|--------------------------------------|--|---|
| | | | PID | | |
| 0-1 | Asphalt and gravel | | 0 | | |
| 1-2 | Yellowish red (5YR 5/6) SANDY SILT, soft, slightly plastic, some quartz, little mica. Moist. | | 0 | | No unusual odors or stains |
| 2-3 | Red (2.5YR 4/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | No unusual odors or stains 0% Recovery from 2' -4' due to quartz pebble blocking barrel. |
| 3-4 | Red (2.5YR 4/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 4-5 | Red (2.5YR 4/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 5-6 | Red (2.5YR 4/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 6-7 | Strong brown (7.5YR 4/6) SILT, soft, slightly plastic, micaceous, some fine sand, some feldspar. Moist. | | 0 | | No unusual odors or stains |
| 7-8 | Strong brown (7.5YR 4/6) SILT, soft, slightly plastic, micaceous, some fine sand, some feldspar. Moist. | | 0 | | Residual soil |
| 8-9 | Strong brown (7.5YR 4/6) SILT, soft, slightly plastic, micaceous, some fine sand, some feldspar. Moist. | | 0 | | |
| 9-10 | Strong brown (7.5YR 5/8) SILT, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | No unusual odors or stains |
| 10-11 | Strong brown (7.5YR 5/8) SILT, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 11-12 | Strong brown (7.5YR 5/8) SILT, soft, slightly plastic, some mica, some fine sand. Moist. | 0950 | 0 | | Sample |

Prepared by: MJG Date: 4-28-10
Checked by: CBS Date: 4/28/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Morganton
Parcel #18 Claude E. Whitt Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0057

Lloyd

Date: 4/1/2010

Boring ID: SB-8

| Depth Interval | Soil Description | Time | Headspace Screening Results (in ppm) | | Comments |
|----------------|---|------|--------------------------------------|--|---|
| | | | PID | | |
| 0-1 | Asphalt and gravel | | 0 | | |
| 1-2 | Dark yellowish brown (10YR 4/4) SANDY SILT, soft, slightly plastic, micaceous. Moist. | | 0 | | No unusual odors or stains |
| 2-3 | Yellowish red (5YR 4/6) SILT, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | No unusual odors or stains Residual soil |
| 3-4 | Yellowish red (5YR 4/6) SILT, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 4-5 | Yellowish red (5YR 4/6) SILT, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 5-6 | Yellowish red (5YR 4/6) SILT, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 6-7 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, few quartz. Moist. | | 0 | | No unusual odors or stains |
| 7-8 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, few quartz. Moist. | | 0 | | |
| 8-9 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, few quartz. Moist. | | 0 | | |
| 9-10 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous. Moist. | | 0 | | No unusual odors or stains |
| 10-11 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous. Moist. | | 0 | | |
| 11-12 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous. Moist. | 1010 | 0 | | Sample |

Prepared by: MJG Date: 4-28-10
Checked by: CBS Date: 4/28/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Morganton
Parcel #18 Claude E. Whitt Property
MACTEC Project #: 6470-10-0057

MACTEC Field Representative

Lloyd

Date: 4/1/2010

Boring ID: SB-9

| Depth Interval | Soil Description | Time | Headspace Screening Results (in ppm) | | Comments |
|----------------|---|------|--------------------------------------|--|----------------------------|
| | | | PID | | |
| 0-1 | Asphalt and gravel | | 0 | | |
| 1-2 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, some mica, some quartz. Moist. | | 0 | | No unusual odors or stains |
| 2-3 | Yellowish red (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some coarse sand. Moist. | | 0 | | No unusual odors or stains |
| 3-4 | Yellowish red (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some coarse sand. Moist. | | 0 | | Residual soil |
| 4-5 | Yellowish red (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some coarse sand. Moist. | | 0 | | |
| 5-6 | Yellowish red (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some coarse sand. Moist. | | 0 | | |
| 6-7 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | No unusual odors or stains |
| 7-8 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | |
| 8-9 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | |
| 9-10 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | No unusual odors or stains |
| 10-11 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | |
| 11-12 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | 1025 | 0 | | Sample |

Prepared by: MJG Date: 4-28-10
Checked by: CBS Date: 4/28/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Morganton
Parcel #18 Claude E. Whitt Property

MACTEC Field Representative

MACTEC Project #: 6470-10-0057

Lloyd

Date: 4/1/2010

Boring ID: SB-10

| Depth Interval | Soil Description | Time | Headspace Screening Results (in ppm) | | Comments |
|----------------|--|------|--------------------------------------|--|----------------------------|
| | | | PID | | |
| 0-1 | Asphalt and gravel | | 0 | | |
| 1-2 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, some mica, some quartz. Moist. | | 0 | | No unusual odors or stains |
| 2-3 | Strong brown (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | No unusual odors or stains |
| 3-4 | Strong brown (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 4-5 | Strong brown (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 5-6 | Strong brown (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 6-7 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | No unusual odors or stains |
| 7-8 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | |
| 8-9 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | |
| 9-10 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | No unusual odors or stains |
| 10-11 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | |
| 11-12 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | 1045 | 0 | | Sample |

Prepared by: MJB Date: 4-28-10
Checked by: CBS Date: 4/28/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Morganton
Parcel #18 Claude E. Whitt Property
MACTEC Project #: 6470-10-0057

MACTEC Field Representative

Lloyd

Date: 4/1/2010

Boring ID: SB-11

| Depth Interval | Soil Description | Time | Headspace Screening Results (in ppm) | | Comments |
|----------------|--|------|--------------------------------------|--|---|
| | | | PID | | |
| 0-1 | Asphalt and gravel | | 0 | | |
| 1-2 | Reddish yellow (7.5YR 5/8) SANDY SILT, soft, slightly plastic, some mica, some quartz. Moist. | | 0 | | No unusual odors or stains |
| 2-3 | Strong brown (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | No unusual odors or stains |
| 3-4 | Strong brown (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 4-5 | Strong brown (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 5-6 | Strong brown (7.5YR 5/8) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 6-7 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | No unusual odors or stains Residual soil |
| 7-8 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | |
| 8-9 | Yellowish red (7.5YR 5/6) SANDY SILT, soft, slightly plastic, micaceous, some quartz. Moist. | | 0 | | |
| 9-10 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous. Moist. | | 0 | | No unusual odors or stains |
| 10-11 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous. Moist. | | 0 | | |
| 11-12 | Reddish yellow (7.5YR 6/8) SANDY SILT, soft, slightly plastic, micaceous. Moist. | 1110 | 0 | | Sample |

Prepared by: MJB Date: 4-28-10
Checked by: CBS Date: 4/28/10



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

Soil Boring Sample Record

MACTEC Project ID: NCDOT Morganton
Parcel #18 Claude E. Whitt Property
MACTEC Project #: 6470-10-0057

MACTEC Field Representative

Lloyd

Date: 4/1/2010

Boring ID: SB-12

| Depth Interval | Soil Description | Time | Headspace Screening Results (in ppm) | | Comments |
|----------------|---|------|--------------------------------------|--|----------------------------|
| | | | PID | | |
| 0-1 | Grass and roots. | | 0 | | |
| 1-2 | Dark grayish brown (10YR 4/2) SILTY SAND, soft, nonplastic, some gravel. Moist. | | 0 | | No unusual odors or stains |
| 2-3 | Red (2.5YR 4/6) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | No unusual odors or stains |
| 3-4 | Red (2.5YR 4/6) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 4-5 | Red (2.5YR 4/6) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | 5' Some wood fragments |
| 5-6 | Red (2.5YR 4/6) SILT with minor sand, soft, slightly plastic, some mica, some fine sand. Moist. | | 0 | | |
| 6-7 | Yellowish red (5YR 5/6) SILT with minor sand, soft, slightly plastic, micaceous. Moist. | | 0 | | No unusual odors or stains |
| 7-8 | Yellowish red (5YR 5/6) SILT with minor sand, soft, slightly plastic, micaceous. Moist. | | 0 | | |
| 8-9 | Yellowish red (5YR 5/6) SILT with minor sand, soft, slightly plastic, micaceous. Moist. | | 0 | | |
| 9-10 | Reddish brown (5YR 4/4) SANDY SILT, soft, slightly plastic, micaceous. Moist to damp. | | 0 | | No unusual odors or stains |
| 10-11 | Reddish brown (5YR 4/4) SANDY SILT, soft, slightly plastic, micaceous. Moist to damp. | | 0 | | |
| 11-12 | Reddish brown (5YR 4/4) SANDY SILT, soft, slightly plastic, micaceous. Moist to damp. | 1130 | 0 | | Sample |

Prepared by: MJB Date: 4-28-10
Checked by: CBS Date: 4/28/10

APPENDIX D

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



PRISM
LABORATORIES, INC.

Case Narrative

Date: 04/19/10
Company: N.C. Department of Transportation
Contact: Matt Gillis
Address: c/o MACTEC Eng. & Consulting, Inc
3301 Atlantic Ave.
Raleigh, NC 27604

Client Project ID: NCDOT Morganton
Prism COC Group No: G0410079
Collection Date(s): 03/31/10 thru 04/02/10
Lab Submittal Date(s): 04/05/10

Client Project Name Or No: Morganton, NC WBS# 34831.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 32 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

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

Semi Volatile Analysis

Analysis Note for Q49432 MS Diesel Range Organics (DRO): Sample concentration too high for recovery evaluation.

Analysis Note for Q49432 MSD Diesel Range Organics (DRO): Sample concentration too high for recovery evaluation.

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

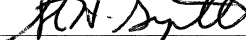
Wet Lab and Micro Analysis

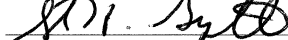
N/A

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

Data Reviewed by: Steven H. Guptill

Project Manager: Steven H. Guptill

Signature: 

Signature: 

Review Date: 04/19/10

Approval Date: 04/19/10

Data Qualifiers Key Reference:

B: Compound also detected in the method blank.

#: Result outside of the QC limits.

DO: Compound diluted out.

E: Estimated concentration, calibration range exceeded.

J: The analyte was positively identified but the value is estimated below the reporting limit.

H: Estimated concentration with a high bias.

L: Estimated concentration with a low bias.

M: A matrix effect is present.

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



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

Laboratory Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1
Sample Matrix: Soil

Client Sample ID: SB-7
Prism Sample ID: 275755
COC Group: G0410079
Time Collected: 04/01/10 9:50
Time Submitted: 04/05/10 15:50

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|

Percent Solids Determination

| | | | | | | | | | |
|----------------|------|---|--|--|---|----------|----------------|----------|--|
| Percent Solids | 78.0 | % | | | 1 | SM2540 G | 04/07/10 16:22 | jbrayton | |
|----------------|------|---|--|--|---|----------|----------------|----------|--|

Diesel Range Organics (DRO) by GC-FID

| | | | | | | | | | |
|-----------------------------|-----|-------|-----|-----|---|-------|----------------|--------|--------|
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.9 | 1.4 | 1 | 8015B | 04/14/10 19:25 | jvogel | Q49432 |
|-----------------------------|-----|-------|-----|-----|---|-------|----------------|--------|--------|

Sample Preparation: 25.09 g / 1 mL 3545 04/13/10 13:25 athao P27252

| Surrogate | % Recovery | Control Limits |
|-------------|------------|----------------|
| o-Terphenyl | 69 | 49 - 124 |

Sample Weight Determination

| | | | | | | | | | |
|----------|-------|---|--|--|---|-----|---------------|--------|--|
| Weight 1 | 10.17 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |
| Weight 2 | 10.13 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |

Gasoline Range Organics (GRO) by GC-FID

| | | | | | | | | | |
|-------------------------------|-----|-------|-----|-----|----|-------|----------------|---------|--------|
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.4 | 4.0 | 50 | 8015B | 04/10/10 12:29 | heasler | Q49314 |
|-------------------------------|-----|-------|-----|-----|----|-------|----------------|---------|--------|

Surrogate recovery was outside of the control limits.

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
| aaa-TFT | 140 # | 55 - 129 |

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1
Sample Matrix: Soil

Client Sample ID: SB-8
Prism Sample ID: 275756
COC Group: G0410079
Time Collected: 04/01/10 10:10
Time Submitted: 04/05/10 15:50

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|

Percent Solids Determination

| | | | | | | | | | |
|----------------|------|---|--|--|---|----------|----------------|----------|--|
| Percent Solids | 77.7 | % | | | 1 | SM2540 G | 04/07/10 16:22 | jbrayton | |
|----------------|------|---|--|--|---|----------|----------------|----------|--|

Diesel Range Organics (DRO) by GC-FID

| | | | | | | | | | |
|-----------------------------|-----|-------|-----|-----|---|-------|----------------|--------|--------|
| Diesel Range Organics (DRO) | BRL | mg/kg | 9.0 | 1.5 | 1 | 8015B | 04/14/10 20:35 | jvogel | Q49432 |
|-----------------------------|-----|-------|-----|-----|---|-------|----------------|--------|--------|

Sample Preparation: 25.01 g / 1 mL 3545 04/13/10 13:25 athao P27252

| Surrogate | % Recovery | Control Limits |
|-------------|------------|----------------|
| o-Terphenyl | 83 | 49 - 124 |

Sample Weight Determination

| | | | | | | | | | |
|----------|------|---|--|--|---|-----|---------------|--------|--|
| Weight 1 | 7.71 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |
| Weight 2 | 9.38 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |

Gasoline Range Organics (GRO) by GC-FID

| | | | | | | | | | |
|-------------------------------|-----|-------|-----|-----|----|-------|----------------|---------|--------|
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.4 | 4.0 | 50 | 8015B | 04/10/10 13:00 | heasler | Q49314 |
|-------------------------------|-----|-------|-----|-----|----|-------|----------------|---------|--------|

Surrogate recovery was outside of the control limits.

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
| aaa-TFT | 162 # | 55 - 129 |

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1
Sample Matrix: Soil

Client Sample ID: SB-9
Prism Sample ID: 275757
COC Group: G0410079
Time Collected: 04/01/10 10:25
Time Submitted: 04/05/10 15:50

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|

Percent Solids Determination

| | | | | | | | | | |
|----------------|------|---|--|--|---|----------|----------------|----------|--|
| Percent Solids | 81.6 | % | | | 1 | SM2540 G | 04/07/10 16:22 | jbrayton | |
|----------------|------|---|--|--|---|----------|----------------|----------|--|

Diesel Range Organics (DRO) by GC-FID

| | | | | | | | | | |
|-----------------------------|-----|-------|-----|-----|---|-------|----------------|--------|--------|
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.5 | 1.4 | 1 | 8015B | 04/14/10 22:21 | jvogel | Q49432 |
|-----------------------------|-----|-------|-----|-----|---|-------|----------------|--------|--------|

Sample Preparation: 25.16 g / 1 mL 3545 04/13/10 13:25 athao P27252

| Surrogate | % Recovery | Control Limits |
|-------------|------------|----------------|
| o-Terphenyl | 74 | 49 - 124 |

Sample Weight Determination

| | | | | | | | | | |
|----------|-------|---|--|--|---|-----|---------------|--------|--|
| Weight 1 | 11.09 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |
| Weight 2 | 9.10 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |

Gasoline Range Organics (GRO) by GC-FID

| | | | | | | | | | |
|-------------------------------|-----|-------|-----|-----|----|-------|----------------|---------|--------|
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.1 | 3.8 | 50 | 8015B | 04/10/10 13:32 | heasler | Q49314 |
|-------------------------------|-----|-------|-----|-----|----|-------|----------------|---------|--------|

Surrogate recovery was outside of the control limits.

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
| aaa-TFT | 149 # | 55 - 129 |

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1
Sample Matrix: Soil

Client Sample ID: SB-10
Prism Sample ID: 275758
COC Group: G0410079
Time Collected: 04/01/10 10:45
Time Submitted: 04/05/10 15:50

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|

Percent Solids Determination

| | | | | | | | | | |
|----------------|-------------|---|--|--|---|----------|----------------|----------|--|
| Percent Solids | 84.9 | % | | | 1 | SM2540 G | 04/07/10 16:22 | jbrayton | |
|----------------|-------------|---|--|--|---|----------|----------------|----------|--|

Diesel Range Organics (DRO) by GC-FID

| | | | | | | | | | |
|-----------------------------|------------|-------|-----|-----|---|-------|----------------|--------|--------|
| Diesel Range Organics (DRO) | BRL | mg/kg | 8.2 | 1.3 | 1 | 8015B | 04/14/10 18:14 | jvogel | Q49432 |
|-----------------------------|------------|-------|-----|-----|---|-------|----------------|--------|--------|

Sample Preparation: 25.12 g / 1 mL 3545 04/13/10 13:25 athao P27252

| Surrogate | % Recovery | Control Limits |
|-------------|------------|----------------|
| o-Terphenyl | 77 | 49 - 124 |

Sample Weight Determination

| | | | | | | | | | |
|----------|-------------|---|--|--|---|-----|---------------|--------|--|
| Weight 1 | 9.67 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |
| Weight 2 | 8.03 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |

Gasoline Range Organics (GRO) by GC-FID

| | | | | | | | | | |
|-------------------------------|------------|-------|-----|-----|----|-------|----------------|---------|--------|
| Gasoline Range Organics (GRO) | BRL | mg/kg | 5.9 | 3.7 | 50 | 8015B | 04/10/10 14:03 | heasler | Q49314 |
|-------------------------------|------------|-------|-----|-----|----|-------|----------------|---------|--------|

Surrogate recovery was outside of the control limits.

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
| aaa-TFT | 147 # | 55 - 129 |

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1
Sample Matrix: Soil

Client Sample ID: SB-11
Prism Sample ID: 275759
COC Group: G0410079
Time Collected: 04/02/10 11:10
Time Submitted: 04/05/10 15:50

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|---|--------|-------|--------------|------------------|-----------------|----------|--------------------|-----------------------|--------------|
| <u>Percent Solids Determination</u> | | | | | | | | | |
| Percent Solids | 67.7 | % | | | 1 | SM2540 G | 04/08/10 15:30 | jbrayton | |
| <u>Diesel Range Organics (DRO) by GC-FID</u> | | | | | | | | | |
| Diesel Range Organics (DRO) | BRL | mg/kg | 10 | 1.7 | 1 | 8015B | 04/17/10 0:59 | jvogel | Q49472 |
| Sample Preparation: | | | | 25.08 g | / | 1 mL | 3545 | 04/15/10 16:00 | athao P27278 |
| | | | | Surrogate | | | % Recovery | Control Limits | |
| | | | | o-Terphenyl | | | 81 | 49 - 124 | |
| <u>Sample Weight Determination</u> | | | | | | | | | |
| Weight 1 | 8.75 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |
| Weight 2 | 6.76 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |
| <u>Gasoline Range Organics (GRO) by GC-FID</u> | | | | | | | | | |
| Gasoline Range Organics (GRO) | BRL | mg/kg | 7.4 | 4.6 | 50 | 8015B | 04/10/10 22:25 | heasler | Q49314 |
| | | | | Surrogate | | | % Recovery | Control Limits | |
| | | | | aaa-TFT | | | 128 | 55 - 129 | |

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1
Sample Matrix: Soil

Client Sample ID: SB-12
Prism Sample ID: 275760
COC Group: G0410079
Time Collected: 04/02/10 11:30
Time Submitted: 04/05/10 15:50

| Parameter | Result | Units | Report Limit | MDL | Dilution Factor | Method | Analysis Date/Time | Analyst | Batch ID |
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|
|-----------|--------|-------|--------------|-----|-----------------|--------|--------------------|---------|----------|

Percent Solids Determination

| | | | | | | | | | |
|----------------|------|---|--|--|---|----------|----------------|----------|--|
| Percent Solids | 76.9 | % | | | 1 | SM2540 G | 04/08/10 15:30 | jbrayton | |
|----------------|------|---|--|--|---|----------|----------------|----------|--|

Diesel Range Organics (DRO) by GC-FID

| | | | | | | | | | |
|-----------------------------|-----|-------|-----|-----|---|-------|---------------|--------|--------|
| Diesel Range Organics (DRO) | BRL | mg/kg | 9.1 | 1.5 | 1 | 8015B | 04/17/10 1:34 | jvogel | Q49472 |
|-----------------------------|-----|-------|-----|-----|---|-------|---------------|--------|--------|

Sample Preparation: 25.05 g / 1 mL 3545 04/15/10 16:00 athao P27278

| Surrogate | % Recovery | Control Limits |
|-------------|------------|----------------|
| o-Terphenyl | 79 | 49 - 124 |

Sample Weight Determination

| | | | | | | | | | |
|----------|------|---|--|--|---|-----|---------------|--------|--|
| Weight 1 | 7.18 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |
| Weight 2 | 7.22 | g | | | 1 | GRO | 04/08/10 0:00 | lbrown | |

Gasoline Range Organics (GRO) by GC-FID

| | | | | | | | | | |
|-------------------------------|-----|-------|-----|-----|----|-------|----------------|---------|--------|
| Gasoline Range Organics (GRO) | BRL | mg/kg | 6.5 | 4.1 | 50 | 8015B | 04/10/10 21:23 | heasler | Q49314 |
|-------------------------------|-----|-------|-----|-----|----|-------|----------------|---------|--------|

Surrogate recovery was outside of the control limits.

| Surrogate | % Recovery | Control Limits |
|-----------|------------|----------------|
| aaa-TFT | 144 # | 55 - 129 |

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Level II QC Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1

COC Group Number: G0410079
Date/Time Submitted: 04/05/10 15:50

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

Method Blank

| | Result | RL | Control Limit | Units | QC Batch ID |
|-------------------------------|--------|----|---------------|-------|-------------|
| Gasoline Range Organics (GRO) | ND | 5 | <2.5 | mg/kg | Q49295 |

Laboratory Control Sample

| | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|-------------------------------|--------|--------------|-------|------------|-------------------|-------------|
| Gasoline Range Organics (GRO) | 50.20 | 50 | mg/kg | 100 | 67-116 | Q49295 |

Matrix Spike

| Sample ID: | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|--------------------------------------|--------|--------------|-------|------------|-------------------|-------------|
| 275461 Gasoline Range Organics (GRO) | 41.90 | 50 | mg/kg | 84 | 57-113 | Q49295 |

Matrix Spike Duplicate

| Sample ID: | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
|--------------------------------------|--------|--------------|-------|------------|-------------------|-------|-------------|-------------|
| 275461 Gasoline Range Organics (GRO) | 44.10 | 50 | mg/kg | 88 | 57-113 | 5 | 0 - 23 | Q49295 |

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

Method Blank

| | Result | RL | Control Limit | Units | QC Batch ID |
|-------------------------------|--------|----|---------------|-------|-------------|
| Gasoline Range Organics (GRO) | ND | 5 | <2.5 | mg/kg | Q49314 |

Laboratory Control Sample

| | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|-------------------------------|--------|--------------|-------|------------|-------------------|-------------|
| Gasoline Range Organics (GRO) | 49.60 | 50 | mg/kg | 99 | 67-116 | Q49314 |

Matrix Spike

| Sample ID: | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|--------------------------------------|--------|--------------|-------|------------|-------------------|-------------|
| 275755 Gasoline Range Organics (GRO) | 37.45 | 50 | mg/kg | 75 | 57-113 | Q49314 |

Matrix Spike Duplicate

| Sample ID: | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
|--------------------------------------|--------|--------------|-------|------------|-------------------|-------|-------------|-------------|
| 275755 Gasoline Range Organics (GRO) | 37.25 | 50 | mg/kg | 75 | 57-113 | 1 | 0 - 23 | Q49314 |

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

Level II QC Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1

COC Group Number: G0410079
Date/Time Submitted: 04/05/10 15:50

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

| Method Blank | | | | | | | | | |
|------------------------------------|--------|--------------|---------------|-------|------------|-------------------|-------|-------------|-------------|
| | Result | RL | Control Limit | Units | | | | QC Batch ID | |
| Diesel Range Organics (DRO) | ND | 7 | <3.5 | mg/kg | | | | Q49319 | |
| Laboratory Control Sample | | | | | | | | | |
| | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | QC Batch ID | |
| Diesel Range Organics (DRO) | 51.0 | 80 | | mg/kg | 64 | 55-109 | | Q49319 | |
| Matrix Spike | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | QC Batch ID | |
| 275749 Diesel Range Organics (DRO) | 54.8 | 80 | | mg/kg | 69 | 50-117 | | Q49319 | |
| Matrix Spike Duplicate | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
| 275749 Diesel Range Organics (DRO) | 55.7 | 80 | | mg/kg | 70 | 50-117 | 2 | 0 - 24 | Q49319 |

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

| Method Blank | | | | | | | | | |
|--------------------------------------|--------|--------------|---------------|-------|------------|-------------------|-------|-------------|-------------|
| | Result | RL | Control Limit | Units | | | | QC Batch ID | |
| Gasoline Range Organics (GRO) | ND | 5 | <2.5 | mg/kg | | | | Q49405 | |
| Laboratory Control Sample | | | | | | | | | |
| | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | QC Batch ID | |
| Gasoline Range Organics (GRO) | 48.25 | 50 | | mg/kg | 97 | 67-116 | | Q49405 | |
| Matrix Spike | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | QC Batch ID | |
| 275831 Gasoline Range Organics (GRO) | 46.00 | 50 | | mg/kg | 92 | 57-113 | | Q49405 | |
| Matrix Spike Duplicate | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
| 275831 Gasoline Range Organics (GRO) | 47.80 | 50 | | mg/kg | 96 | 57-113 | 4 | 0 - 23 | Q49405 |

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

Level II QC Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1

COC Group Number: G0410079
Date/Time Submitted: 04/05/10 15:50

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

| Method Blank | | | | | | | | | |
|------------------------------------|--------|--------------|---------------|-------|------------|-------------------|-------|-------------|-------------|
| | Result | RL | Control Limit | Units | | | | | QC Batch ID |
| Diesel Range Organics (DRO) | ND | 7 | <3.5 | mg/kg | | | | | Q49432 |
| Laboratory Control Sample | | | | | | | | | |
| | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | | QC Batch ID |
| Diesel Range Organics (DRO) | 54.8 | 80 | | mg/kg | 69 | 55-109 | | | Q49432 |
| Matrix Spike | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | | QC Batch ID |
| 276286 Diesel Range Organics (DRO) | 391 | 80 | | mg/kg | -8 # | 50-117 | | | Q49432 |
| Matrix Spike Duplicate | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
| 276286 Diesel Range Organics (DRO) | 302 | 80 | | mg/kg | -119 # | 50-117 | 26 # | 0 - 24 | Q49432 |

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

| Method Blank | | | | | | | | | |
|--------------------------------------|--------|--------------|---------------|-------|------------|-------------------|-------|-------------|-------------|
| | Result | RL | Control Limit | Units | | | | | QC Batch ID |
| Gasoline Range Organics (GRO) | ND | 5 | <2.5 | mg/kg | | | | | Q49444 |
| Laboratory Control Sample | | | | | | | | | |
| | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | | QC Batch ID |
| Gasoline Range Organics (GRO) | 47.65 | 50 | | mg/kg | 95 | 67-116 | | | Q49444 |
| Matrix Spike | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | | | QC Batch ID |
| 275668 Gasoline Range Organics (GRO) | 43.30 | 50 | | mg/kg | 87 | 57-113 | | | Q49444 |
| Matrix Spike Duplicate | | | | | | | | | |
| Sample ID: | Result | Spike Amount | | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
| 275668 Gasoline Range Organics (GRO) | 44.60 | 50 | | mg/kg | 89 | 57-113 | 3 | 0 - 23 | Q49444 |

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

Level II QC Report

04/19/10

N.C. Department of Transportation
 Attn: Matt Gillis
 c/o MACTEC Eng. & Consulting, Inc
 3301 Atlantic Ave.
 Raleigh, NC 27604

Project Name: Morganton, NC
Project ID: NCDOT Morganton
Project No.: WBS# 34831.1.1

COC Group Number: G0410079
Date/Time Submitted: 04/05/10 15:50

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

Method Blank

| | Result | RL | Control Limit | Units | QC Batch ID |
|-----------------------------|--------|----|---------------|-------|-------------|
| Diesel Range Organics (DRO) | ND | 7 | <3.5 | mg/kg | Q49472 |

Laboratory Control Sample

| | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|-----------------------------|--------|--------------|-------|------------|-------------------|-------------|
| Diesel Range Organics (DRO) | 54.6 | 80 | mg/kg | 68 | 55-109 | Q49472 |

Matrix Spike

| Sample ID: | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|------------------------------------|--------|--------------|-------|------------|-------------------|-------------|
| 275759 Diesel Range Organics (DRO) | 69.9 | 80 | mg/kg | 87 | 50-117 | Q49472 |

Matrix Spike Duplicate

| Sample ID: | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
|------------------------------------|--------|--------------|-------|------------|-------------------|-------|-------------|-------------|
| 275759 Diesel Range Organics (DRO) | 73.4 | 80 | mg/kg | 92 | 50-117 | 5 | 0 - 24 | Q49472 |

#-See Case Narrative



Full-Service Analytical & Environmental Solutions

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

Client Company Name: MACIEC
 Report To/Contact Name: Math Callis
 Reporting Address: 3301 Atlanta Ave,
Cape Fear, NC

Phone: 919-831-8056 Fax (Yes) (No)
 Email (Yes) (No) Email Address
 EDD Type: PDF Excel Other
 Site Location Name: NC DOT Morganton
 Site Location Physical Address: Morganton NC

CHAIN OF CUSTODY RECORD

PAGE 1 OF 3 QUOTE # TO ENSURE PROPER BILLING:

Project Name: NC DOT Morganton
 Short Hold Analysis: (Yes) (No) USJ Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III IIII IV) provisions and/or QC Requirements
 Invoice To: Coporate
 Address:

Purchase Order No./Billing Reference WBS 34831.1.1
 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 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

Samples INTACT upon arrival? YES NO N/A
 Received ON WET ICE? Temp 4.9°
 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 | | | PRESERVATIVES | ANALYSES REQUESTED | REMARKS | PRISM LAB ID NO. |
|---------------------------|----------------|-------------------------------|--------------------------------|------------------|-----|------------|---------------|--------------------|---------|------------------|
| | | | | *TYPE SEE BELOW | NO. | SIZE | | | | |
| SB-1 | 8/21/10 | 1335 | Soil | CG, VOA 2, 2 | 4oz | 4ml Method | | | | 275749 |
| SB-2 | | 1400 | | | | | | | | 275750 |
| SB-3 | | 1425 | | | | | | | | 275751 |
| SB-4 | | 1455 | | | | | | | | 275752 |
| SB-5 | | 1510 | | | | | | | | 275753 |
| SB-6 | | 1530 | | | | | | | | 275754 |
| SB-7 | 9/11/10 | 950 | | | | | | | | 275755 |
| SB-8 | | 1010 | | | | | | | | 275756 |
| SB-9 | | 1025 | | | | | | | | 275757 |
| SB-10 | | 1045 | | | | | | | | 275758 |

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

Additional Comments:
41

Sampler's Signature: [Signature] Sampled By (Print Name): Rester 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.

Relinquished By (Signature): [Signature] Date: 4/5/10 Military/Hours: 1300
 Received By (Signature): [Signature] Date:
 Relinquished By (Signature): [Signature] Date: 4/5/10 Date: 1550
 Received By (Signature): [Signature] Date: 4/5/10 Date: 1550
 Relinquished By (Signature): [Signature] Date: 4/5/10 Date: 1550
 Received By (Signature): [Signature] Date: 4/5/10 Date: 1550
 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 I-DOC UNTIL RECEIVED AT THE LABORATORY.
 Fed Ex UPS Hand-delivered Prism Field Service Other

NPDES: NC SC NC SC NC SC
 GROUNDWATER: NC SC NC SC
 DRINKING WATER: NC SC NC SC
 SOLID WASTE: NC SC NC SC
 RCRA: NC SC NC SC
 CERCLA: NC SC NC SC
 LANDFILL: NC SC NC SC
 OTHER:
 *CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



Full-Service Analytical & Environmental Solutions

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

Client Company Name: MACTEC

Report To/Contact Name: M.H. G.H.S.

Reporting Address: 3301 ATLANTA AVE

Raleigh, NC

Phone: 919-831-8056 Fax (Yes) (No)

Email (Yes) (No) Email Address _____

EDD Type: PDF Excel Other _____

Site Location Name: NCDOT Morganton

Site Location Physical Address: Morganton, NC

CHAIN OF CUSTODY RECORD

PAGE 2 OF 3 QUOTE # TO ENSURE PROPER BILLING:

Project Name: NCDOT Morganton

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

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

Invoice To: Callpore

Address: _____

Purchase Order No./Billing Reference WBS 34831.1

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

"Working Days" 6-9 Days Standard 10 days 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)

| 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 | | | | |
| SB-11 | 4/2/10 | 1110 | Soil | 6 Ch | Voa 2, 2 | 40% Methanol | ✓ | | 275759 |
| SB-12 | | 1130 | | | | | | | 275760 |
| SB-13 | | 1355 | | | | | | | 275761 |
| SB-14 | | 1405 | | | | | | | 275762 |
| SB-15 | | 1425 | | | | | | | 275763 |
| SB-16 | | 1455 | | | | | | | 275764 |
| SB-17 | | 1520 | | | | | | | 275765 |
| SB-18 | | 1545 | | | | | | | 275766 |
| SB-19 | | 1610 | | | | | | | 275767 |
| SB-20 | | 1630 | | | | | | | 275768 |

Sample Iced Upon Collection: YES NO

Water Chlorinated: YES NO

SC OTHER N/A

Certification: NELAC USACE FL NC

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A

Received ON WET ICE? Temp 4.9

PROPER PRESERVATIVES indicated?

Received WITHIN HOLDING TIMES?

CUSTOMER SEALS INTACT?

VOLATILES rec'd W/OUT HEADSPACE?

PROPER CONTAINERS used?

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Additional Comments: 40

PRISM USE ONLY

Site Arrival Time: _____

Site Departure Time: _____

Field Tech Fee: _____

Mileage: _____

Sampler's Signature: Justin Y

Sampled By (Print Name): Keuster 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.

Relinquished By (Signature): Justin Y Date: 4-5-10 Military/Hours: 1300

Relinquished By (Signature): _____ Date: _____

Relinquished By (Signature): _____ Date: 4/5/10 1530

Relinquished By (Signature): _____ Date: _____

Relinquished By (Signature): _____ Date: _____

Relinquished By (Signature): _____ Date: _____

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 RECEIVED AT THE LABORATORY.

Fed Ex UPS Hand-delivered Prism Field Service Other _____

NPDES: NC SC NC SC NC SC NC SC NC SC

UST: NC SC NC SC NC SC NC SC

GROUNDWATER: NC SC NC SC NC SC

DRINKING WATER: NC SC NC SC NC SC

SOLID WASTE: NC SC NC SC NC SC

RCRA: NC SC NC SC NC SC

CERCLA: NC SC NC SC NC SC

LANDFILL: NC SC NC SC NC SC

OTHER: NC SC NC SC

VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRESS DOWN FIRMLY - 3 COPIES