Preliminary Site Assessment Report
Maola Milk & Ice Cream Co. Property

Parcel 4H
Charlotte
Mecklenburg County, North Carolina

H&H Job No. ROW-407
State Project P-5208H
WBS Element #50000.1.STR13T1B
November 15, 2012

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street, Suite 100
Charlotte, NC 28203
704.586.0007 main

3334 Hillsborough Street
Raleigh, NC 27607
919.847.4241 main

www.harthickman.com

Preliminary Site Assessment Report
Maola Milk & Ice Cream Co. Property Parcel #4H
Charlotte, Mecklenburg County, North Carolina
H&H Project ROW-407

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Charlotte, Mecklenburg County, North Carolina
H&H Project ROW-407

1.0 Introduction

Hart & Hickman, PC (H&H) has prepared this Preliminary Site Assessment (PSA) report documenting assessment activities performed at the Maola Milk & Ice Cream Co. property (Parcel 4H) located at 7303 Orr Road in Charlotte, Mecklenburg County, North Carolina. This assessment was conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with H&H's August 21, 2012 proposal.

The purpose of this assessment was to collect data to evaluate the presence or absence of impacted soil in the southern and eastern portions of the subject property in the proposed right-of-way and construction areas related to the proposed widening of Orr Road (State Project P-5208H). The Parcel 4H property is currently occupied by Maola Milk & Ice Cream Co. A site location map is included as Figure 1, and a site map is presented as Figure 2. The NC DOT preliminary plan of the Orr Road widening area near the Parcel 4H property is attached as Appendix A.

H&H reviewed underground storage tank (UST) incident files for the Parcel 4H property at the North Carolina Department of Environment and Natural Resources (DENR) Mooresville Regional Office to better target UST system areas and to find locations of previously reported petroleum impacts. Based on the SPATCO Environmental *Report of Site Assessment for Underground Storage Tank Closure* dated July 1990, one 10,000-gallon gasoline UST was removed from the site in June 1990. Low level petroleum constituents below DENR target screening levels were detected in a soil sample collected beneath the UST. The UST was located outside of the NC DOT proposed right-of-way and construction easement areas near the center of the Parcel 4H property. According to the DENR *Soil Sample Results from UST Closure* letter dated September 7, 1990, no further action was required for the site based on the soil sample analytical results from the UST closure activities. Copies of the SPATCO *Report of Site Assessment for Underground Storage Tank Closure* and the DENR no further action letter are included in Appendix B.

The PSA activities conducted by H&H in the NC DOT proposed right-of-way and construction easement areas on the Parcel 4H property are discussed below.

2.0 Site Assessment

Soil Assessment Field Activities

H&H mobilized to the Parcel 4H property on September 17, 2012 and advanced seven soil borings (4H-1 through 4H-7) by direct push technology (DPT). Prior to advancing the soil borings, H&H reviewed the results of a geophysical survey performed at the subject site by Schnabel Engineering (Schnabel) in August 2012. Schnabel utilized electromagnetic (EM) induction technology and ground penetrating radar (GPR) to identify potential geophysical anomalies and potential USTs at the site. The EM results indicated the presence of anomalies attributed to unknown cause (likely reinforced concrete) and known metallic features; however, follow up with GPR did not indicate the presence of a UST. Based on the Schnabel EM and GPR results, no potential USTs were identified in the survey area. Schnabel's report, including a site map depicting the results of the EM and GPR survey, is provided in Appendix C.

Prior to conducting soil borings, utilities were marked by NC One Call. Borings were also cleared to a five foot depth by hand auger. H&H utilized Probe Technology, Inc. (PTI) of Concord, North Carolina to advance the soil borings (Figure 2). All borings were advanced to a total depth of 12 ft below ground surface (bgs). To facilitate the selection of soil samples for laboratory analysis, soil from each boring was screened continuously for the presence of volatile organic compounds (VOCs) with an organic vapor analyzer (OVA). Additionally, H&H observed the soil for visual and olfactory indications of petroleum impacts. During soil screening, there were no indications of impacts in soil borings 4H-1 through 4H-7. Soil samples were collected at depths of 2 ft to 4 ft bgs from each boring location. GPS coordinate data for soil borings 4H-1 through 4H-7 are included in Table 1. Soil boring logs are included in Appendix D.

H&H submitted a total of seven soil samples (4H-1 through 4H-7) for laboratory analysis. Samples were sent to Pace Analytical Services, Inc. using standard chain-of-custody protocol for analysis of total petroleum hydrocarbons (TPH) for gasoline-range organics (GRO) and diesel-range organics (DRO) by EPA Method 8015 Modified. Sample depths and analytical results are summarized in Table 2. Laboratory analytical data sheets for the Parcel 4H soil samples and chain-of-custody documentation are provided in Appendix E. The laboratory report includes samples collected from another site during the same mobilization. The analytical results are discussed below.

3.0 Analytical Results

No target analytes were detected in the seven soil samples collected from Parcel 4H. Based on laboratory analytical results and OVA readings, impacted soil does not appear to be present at the site in the vicinity of the soil boring locations.

4.0 Summary and Regulatory Considerations

H&H has reviewed DENR incident files, geophysical survey results and analytical results of soil samples collected at the Parcel 4H property. Review of DENR files indicate that one 10,000-gallon gasoline UST was removed from the site in June 1990. Based on analytical results of soil samples collected during UST closure activities, no further action was required at the site. The former UST system was located in the center of the Parcel 4H property and outside of the NC DOT proposed right of way and construction easement areas. Based on GPR survey, no potential USTs were identified in the southern and eastern portions of the property, which are near the proposed road improvements.

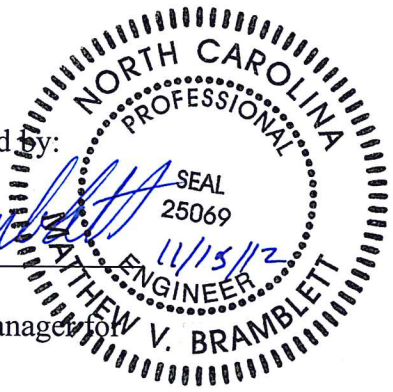
Analytical results of soil samples collected by H&H did not indicate TPH DRO and TPH GRO in the seven samples analyzed by the laboratory. DOT plans indicate proposed cut and fill areas on the southern and eastern portions of the property. Based on results of soil sampling activities, impacted soil should not be encountered at this site during NC DOT road work. Although no soil impacts were identified in these areas by H&H, if impacted soil is encountered, it should be properly managed and disposed at a permitted facility.

5.0 Signature Page

This report was prepared by:

David Graham
Senior Project Geologist for
Hart and Hickman, PC

This report was reviewed by:



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

Table 1
Soil Boring GPS Coordinate Data
Maola Milk & Ice Cream Company Property (Parcel 4H)
Charlotte, Mecklenburg County, North Carolina
H&H Job No. ROW-407

Sample ID	Latitude	Longitude
4H-1	35.266746	-80.745004
4H-2	35.266827	-80.744768
4H-3	35.267014	-80.744253
4H-4	35.266936	-80.744472
4H-5	35.267123	-80.743981
4H-6	35.267272	-80.743680
4H-7	35.267522	-80.743923

Notes:
GPS coordinate data points collected using a Magellan Mobile Mapper CX with sub-meter accuracy.

Table 2
Soil Analytical Results
Maola Milk & Ice Cream Company Property (Parcel 4H)
Charlotte, Mecklenburg County, North Carolina
H&H Job No. ROW-407

Sample ID	4H-1	4H-2	4H-3	4H-4	4H-5	4H-6	4H-7	**Screening Criteria**
Sample Depth (ft)	2-4	2-4	2-4	2-4	2-4	2-4	2-4	
Sample Date	9/17/2012	9/17/2012	9/17/2012	9/17/2012	9/17/2012	9/17/2012	9/17/2012	**NCDENR Action Level**
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	**(mg/kg)**
TPH-DRO/GRO (8015)								
Diesel-Range Organics (DRO)	<5.9	<6.0	<6.0	<5.8	<6.4	<6.1	<6.0	10
Gasoline-Range Organics (GRO)	<7.3	<7.9	<7.3	<6.0	<9.6	<5.8	<6.4	10

Notes:
EPA Method follows parameter in parenthesis
mg/kg = milligrams per kilogram

N

APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

Harrisburg, NC 1996

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

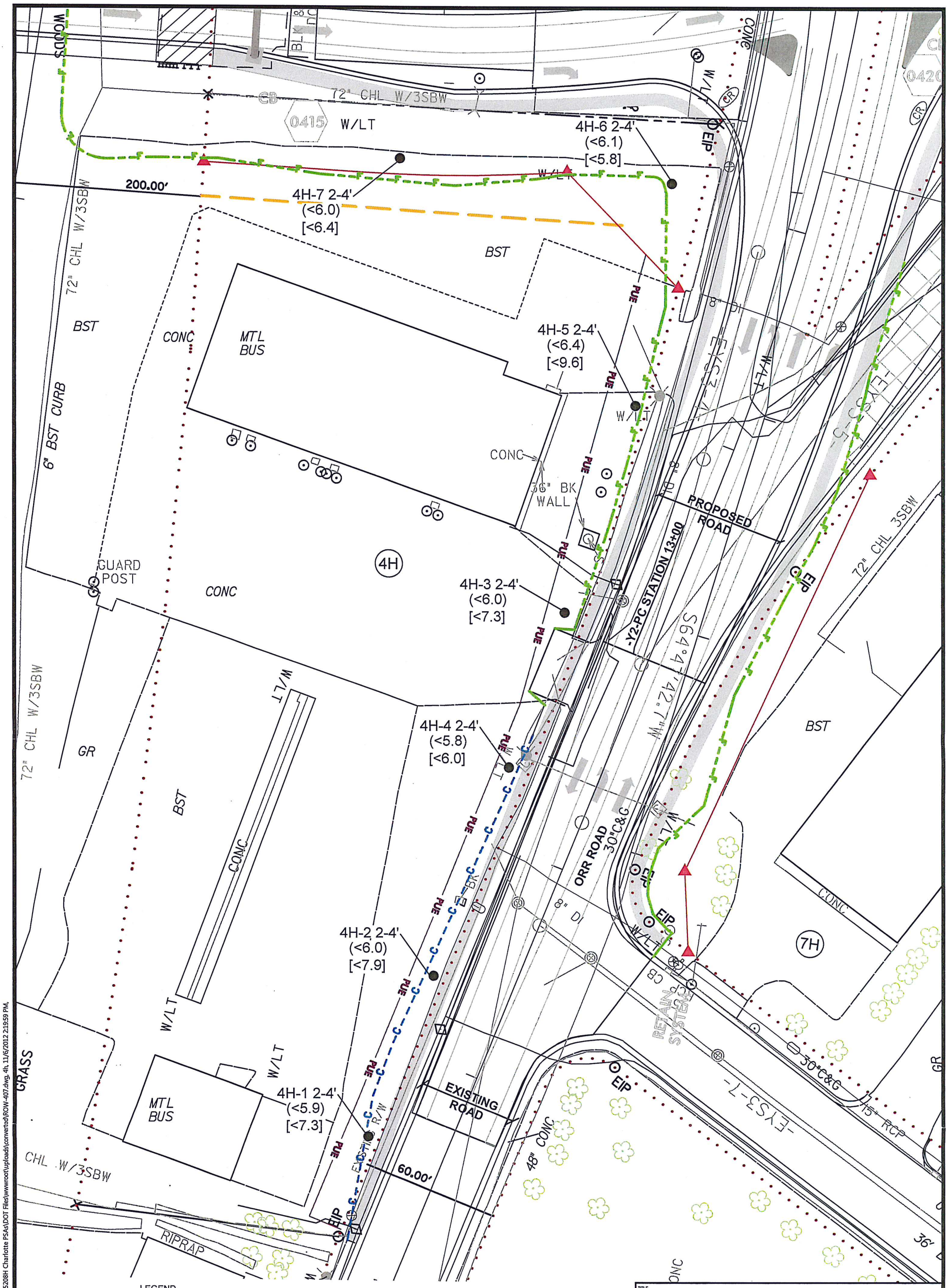
TITLE

SITE LOCATION MAP

PROJECT MAOLA MILK AND ICE CREAM CO. PROPERTY
PARCEL 4H – 7303 ORR ROAD
CHARLOTTE, NORTH CAROLINA

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

DATE:	10-30-12	REVISION NO:	0
JOB NO:	ROW-407	FIGURE:	1



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- PROPOSED FILL LINE
- PROPOSED CUT LINE
- PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE PIPING
- PUE — PROPOSED UTILITY EASEMENT
- PROPOSED CATCH BASIN
- (<6.0) TPH DRO (mg/kg)
- [<7.9] TPH GRO (mg/kg)
- SOIL BORING LOCATION

TITLE: SITE MAP AND SOIL ANALYTICAL RESULTS

PROJECT: MAOLA MILK AND ICE CREAM COMPANY
PARCEL 4H
7303 ORR ROAD
CHARLOTTE, MECKLENBURG COUNTY, NC

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

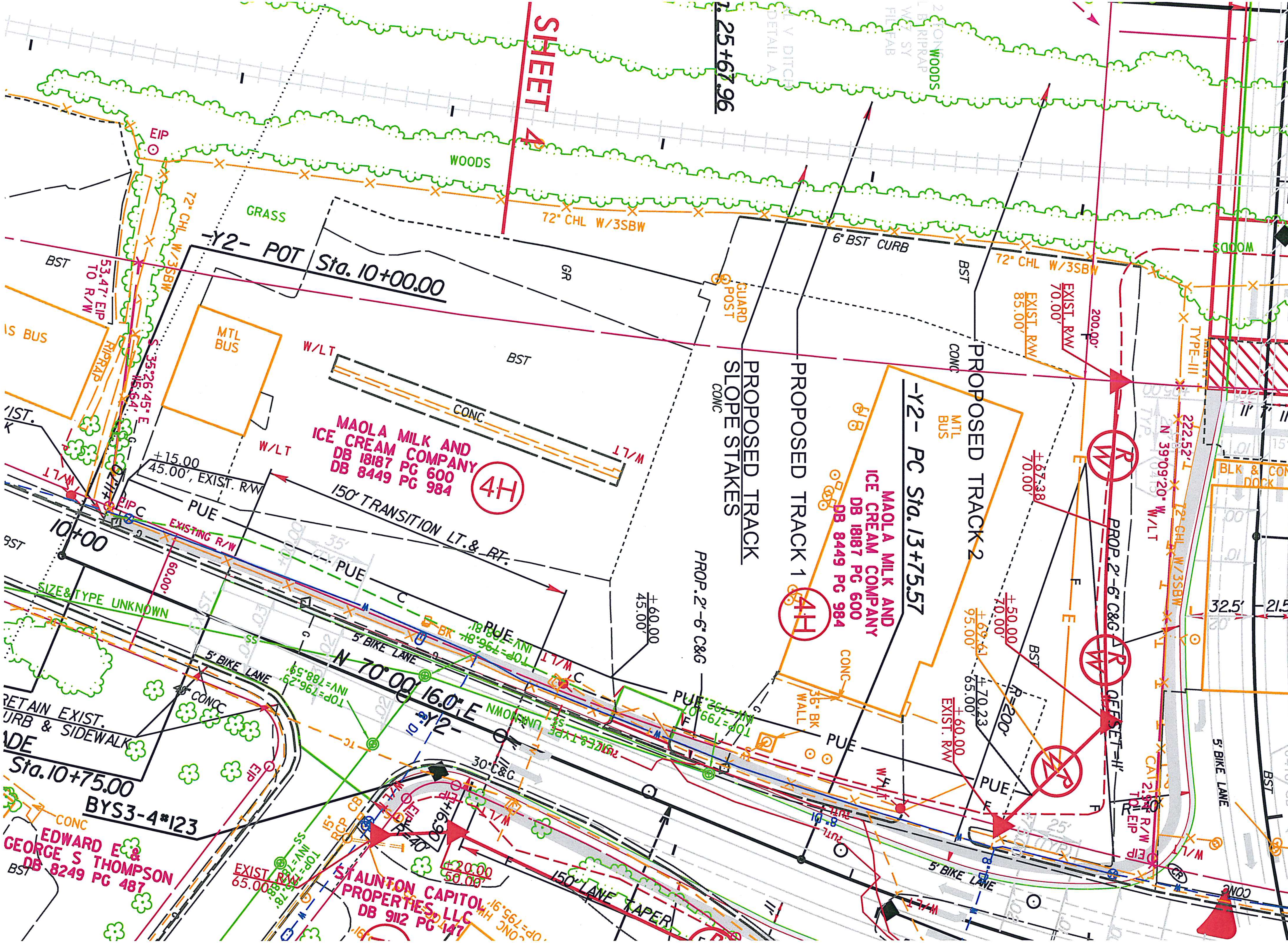
DATE: 11-5-12 | REVISION NO. 0

JOB NO. ROW-407 | FIGURE NO. 2

S:\AAA-Master Projects\NC DOT Right-of-Way - ROW\ROW-407 P-5208H Charlotte PSAs\DOT Files\wwwroot\uploads\converted\ROW-407.dwg, 4h, 11/6/2012 2:19:59 PM,

Appendix A

NC DOT Preliminary Plan



SHEET 4
25+67.96
WOODS
GRASS
EIP
72" CHL W/3SBW
6' BST CURB
-Y2- POT Sta. 10+00.00
BST
GR
GUARD POST
MTL BUS
W/LT
CONC
MAOLA MILK AND ICE CREAM COMPANY
DB 18187 PG 600
DB 8449 PG 984
4H
+15.00
45.00', EXIST. R/W
150' TRANSITION LT. & RT.
PUE
EXISTING R/W
10+00
60.00'
SIZE & TYPE UNKNOWN
5' BIKE LANE
N 70°00'16.0" E
-Y2-
RETAIN EXIST. CURB & SIDEWALK
Sta. 10+75.00
BYS3-4*123
EDWARD E. & GEORGE S THOMPSON
DB 8249 PG 487
EXIST. R/W 65.00'
STAUNTON CAPITOL PROPERTIES, LLC
DB 9112 PG 147
+20.00
50.00'
150' LANE TAPER
30" C&G
PROPOSED TRACK SLOPE STAKES
PROPOSED TRACK 1
PROPOSED TRACK 2
-Y2- PC Sta. 13+75.57
PROP. 2'-6" C&G
+60.00
45.00'
36" BK WALL
CONC
EXIST. R/W 85.00'
EXIST. R/W 70.00'
200.00'
+67.38
70.00'
+50.00
70.00'
+69.61
95.00'
+70.23
65.00'
EXIST. R/W +60.00
R=200'
OFFSET=11'
PROP. 2'-6" C&G
TYPE-III
222.52'
N 39°09'20" W
W/LT
72" CHL W/3SBW
BLK & CONC DOCK
32.5'
21.5'
5' BIKE LANE
BST
CB
EIP TO R/W
53.47' EIP TO R/W
S 35°26'45" E
RIPRAP
EXIST.

Appendix B

Soil Sample Results from UST Closure Letter and NFA Letter

SPATCO environmental

July 2, 1990

Coble Dairy
P.O. Box 629
Lexington, NC 27292
Attn: Mr. Vance Yokley

Re: Site Assessment for Underground Storage Tank Closure
Coble Dairy
7303 Orr Road
Charlotte, North Carolina

Dear Mr. Yokley:

Please find the enclosed site assessment report describing the work performed and presenting the laboratory results obtained along with our comments and recommendations for further action.

Southern Pump and Tank Company's Environmental Services Division (SPATCO-ESD) appreciates the opportunity to provide our environmental-related services on this project. Please contact us if you have any questions, or when we may be of further service.

Sincerely,

SOUTHERN PUMP AND TANK COMPANY
ENVIRONMENTAL SERVICES DIVISION

Jack Stutts
Staff Geologist

Ronald C. Gilkerson
Branch Manager -
Environmental Services

Enclosure

JS-139

Report of Site Assessment for Underground Storage Tank Closure

Coble Dairy
7303 Orr Road
Charlotte, North Carolina

Prepared for:

Mr. Vance Yokley
Coble Dairy
P.O. Box 629
Lexington, North Carolina 27292

Prepared by:

Mr. Jack Stutts
SPATCO Environmental
5100 North I-85, Suite 6
Charlotte, North Carolina 28206

July 1990

Project Background

SPATCO-ESD was contracted by Coble Dairy to determine the absence/presence of soil contamination beneath one underground storage tank (UST labeled T1) at the subject site. The capacity of the UST was 10,000 gallons and the tank contained gasoline.

The removal was performed by SPATCO-ESD on June 13, 1990. The tank was hauled by Southern Tank Disposal to their facility in Charlotte, North Carolina where the tank was properly disposed of in accordance with federal and state guidelines.

The UST was visually inspected by SPATCO-ESD personnel and no obvious perforation was found in the tank.

Soil Sampling

Three soil samples (labeled S1, S2, S3) were obtained beneath the underground tank at the approximate locations shown on the attached site map (Figure 1).

The soil samples were obtained from the base of the tank excavation using a metal hand auger. The hand auger borings were advanced by manually twisting a auger into the ground. The auger was removed from the borehole after penetrating approximately six inches below the base of the excavation.

Each soil sample obtained at the base of the tank excavation was divided into two representative portions. The first portion was placed in the appropriate laboratory glass container, sealed with a teflon lid, and immediately placed in a chilled cooler for shipment to Radian Corporation's laboratory in Morrisville, North Carolina for analysis of benzene, toluene, ethylbenzene, total

xylenes (BTEX), and for total petroleum hydrocarbons (TPH) in the gasoline range.

The second portion of each sample was placed in a zip-lock freezer bag and allowed to volatilize for a period of five minutes. These samples were then screened with an Organic Vapor Analyzer (OVA) by inserting the OVA probe into the sealed bag and recording a head-space reading. Results of OVA screening are shown in the following table:

	OVA Screenings (in parts per million)	
Sample ID	Soil	Background *
S1	0	0
S2	0	0
S3	0	0

* Ambient air sampled away from tank basin.

Prior to obtaining each soil sample for chemical testing, the metal hand auger was properly decontaminated in the field. Decontamination procedures consisted of a soap and tap water wash, tap water rinse, isopropyl alcohol rinse, and finally a deionized water rinse. New disposable latex gloves were worn during sampling to reduce the chances of cross-contamination.

In addition, as a part of our quality assurance program, rinse blank samples were prepared in the field by pouring deionized water through the decontaminated hand auger barrel and into the appropriate laboratory container. These quality assurance samples were analyzed for TPH in the gasoline range, and BTEX.

Laboratory Results

Laboratory results for the four soil samples are included in the Appendix, with a summary of the constituents detected in the samples presented in the following table:

Sample ID	Feet below grade	Benzene	Toluene	Ethylbenzene	Xylenes	TPH (gas)
S1	12	ND	ND	ND	ND	ND
S2	12	ND	ND	ND	ND	0.540
S3	12	ND	ND	ND	ND	ND
Rinse Blank	--	ND	0.0014*	0.0064	0.041	ND

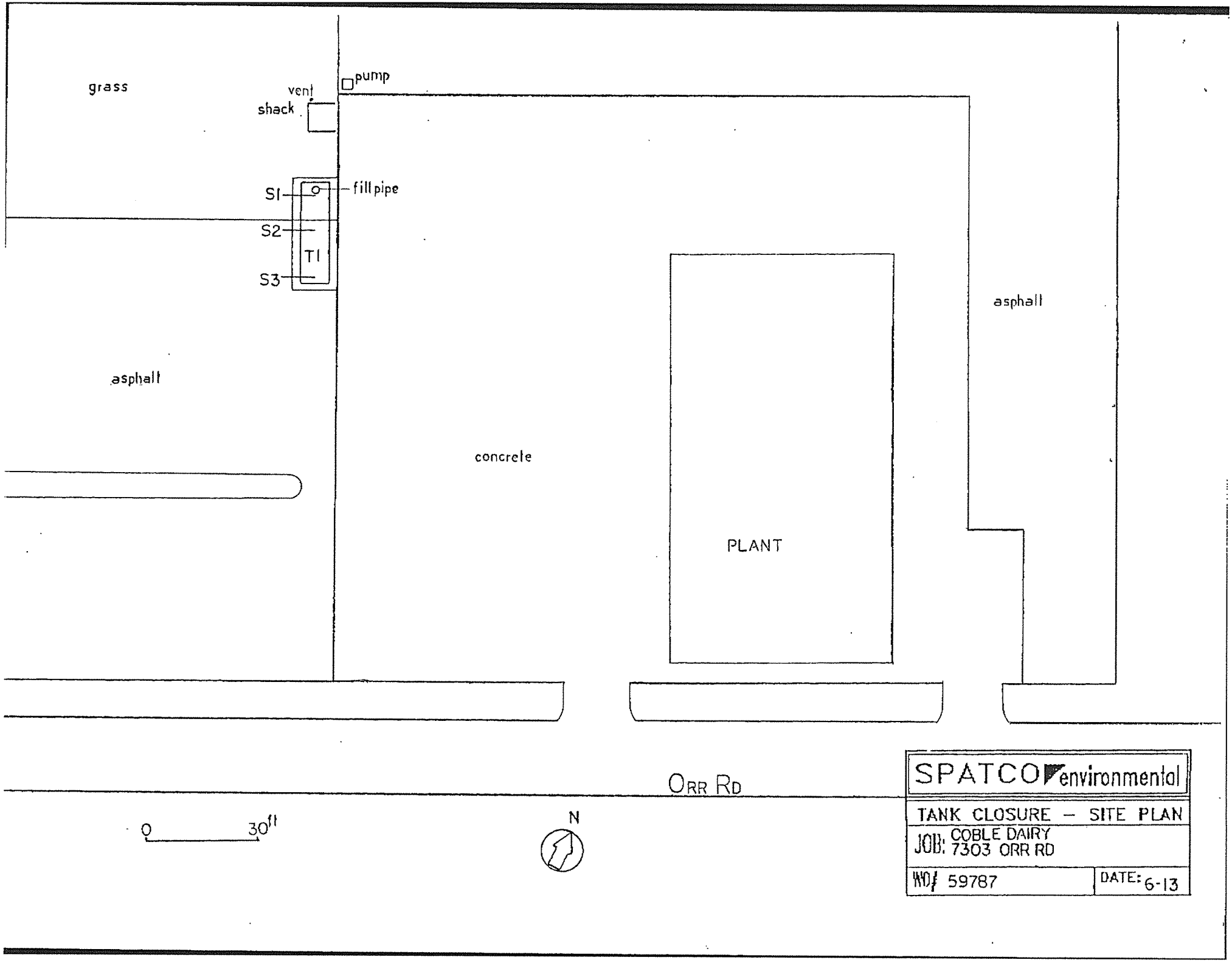
All results in parts per million (ppm).
ND = None detected.
* = Estimated result less than five times detection limit.

Comments and Recommendations

It is our understanding that currently the North Carolina Division of Environmental Management (NCDEM) requires that further assessment and or remedial action be taken on soils exceeding 100 ppm total petroleum hydrocarbons (TPH) and may require remedial action to be taken on soils between 10 and 100 ppm depending on site specific characteristics as determined by a site sensitivity evaluation (SSE). Laboratory results indicated that soil samples S1 and S3 were below detection limits. TPH as gasoline was detected in sample S2, however, the level is well below the current acceptable level of 10 ppm set by NCDEM. For this reason, no further action is recommended at this time.

It is suggested that you forward a copy of this report to the NCDEM.

(JS-139)


grass
vent
shack
pump
S1
fill pipe
S2
T1
S3
asphalt
asphalt
concrete
PLANT
asphalt
ORR RD
0
30ft
N
SPATCO environmental
TANK CLOSURE – SITE PLAN
JOB: COBLE DAIRY
7303 ORR RD
WO# 59787
DATE: 6-13

State of North Carolina
Department of Environment, Health, and Natural Resources
Mooresville Regional Office

James G. Martin, Governor
William W. Cobey, Jr., Secretary

Albert F. Hilton, Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT

September 7, 1990

Mr. Vance Yokley
Coble Dairy
Post Office Box 629
Lexington, North Carolina 27292

RE: Soil Sample Results From UST Closure
Coble Dairy - 7303 Orr Road
Mecklenburg County, N.C.

Dear Mr. Vance Yokley:

The Groundwater Section of the Division of Environmental Management has received the laboratory analyses from three soil samples collected during the closure of one underground storage tank at the above referenced site. The report arrived on August 17, 1990 Based on the reported results, no further action is required at this time.

Should you have any questions, please do not hesitate to call me.

Sincerely,

Britt Setzer

Britt Setzer
Environmental Engineer

BLS/pl

919 North Main Street, Mooresville, N.C. 28115 • Telephone 704-663-1699 • FAX 704-663-6040

Appendix C

Schnabel Engineering Geophysical Survey Report

Schnabel ENGINEERING

September 28, 2012

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

RE:	State Project:	P-5208H
	WBS Element:	50000.1.STR13T1B
	County:	Mecklenburg
	Description:	Grier Road Grade Separation

Subject: **Project 11821014.18, Report on Geophysical Surveys**
Parcel 4H, Maola Milk and Ice Cream Property, Charlotte, North Carolina

Dear Mr. Bramblett:

SCHNABEL ENGINEERING SOUTH, PC (Schnabel) is pleased to present this report on the geophysical surveys we performed on the subject property. The report includes two 11x17 color figures and two 8.5x11 color figures.

INTRODUCTION

The work described in this report was performed on August 23, 24, and 29, 2012, by Schnabel under our 2011 contract with the NCDOT. The surveys were performed over the accessible areas of the property as indicated by the NCDOT to support their environmental assessment of the subject property. Photographs of the property are included on Figure 1. The property is located immediately north of the intersection of Orr Road and Grier Road (7303 Orr Road) in Charlotte, NC. The purpose of the geophysical surveys was to investigate the presence of metal underground storage tanks (USTs) in the accessible areas of the right-of-way and/or easement.

The geophysical surveys consisted of an electromagnetic (EM) induction survey and a ground penetrating radar (GPR) survey. The EM survey was performed using a Geonics EM61-MK2 instrument. The EM61 is a time domain metal detector that is used to locate metal objects buried up to about eight feet below ground surface. When collecting EM61 data, three or four time gates are recorded of the response decay rate. The GPR survey was performed over selected EM61 anomalies, including areas of reinforced concrete, using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna. Photographs of the equipment used are shown on Figure 2.

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

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. We recorded the locations of existing site features (monitoring wells, signs, etc.) with the Trimble system for later correlation with the geophysical data and locations provided by the NCDOT.

The EM61 data were collected along parallel survey lines spaced approximately 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected along survey lines spaced one to two feet apart in orthogonal directions over areas of reinforced concrete and anomalous EM readings not attributed to cultural features. The GPR data were reviewed in the field to evaluate the possible presence of USTs. The GPR data also were recorded digitally and later transferred to a desktop computer for further review.

DISCUSSION OF RESULTS

The contoured EM61 data collected over Parcel 4H are shown on Figures 3 and 4. The EM61 early time gate data are plotted on Figure 3. The early time gate data provide a more sensitive detection of metal objects than the later time gate data. Figure 4 shows the differential response between the top and bottom coils of the EM61 instrument. The differential response data filters out the effect of surface and very shallowly buried metallic objects. Typically, the differential response emphasizes anomalies from deeper and larger objects such as USTs.

The early time gate and differential results show anomalies of unknown cause, in addition to those apparently caused by known site features (Figures 3 and 4). The GPR data indicate that the EM anomalies of unknown cause are probably caused by reinforced concrete. The GPR data collected at the site do not indicate the presence of metallic USTs within the areas surveyed.

CONCLUSIONS

Our evaluation of the geophysical data collected on the subject property on Project P-5208H in Charlotte, NC indicates that metallic USTs are unlikely to be encountered in the areas surveyed on the subject property.

LIMITATIONS

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

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

Sincerely,

SCHNABEL ENGINEERING SOUTH, PC

James W. Whitt, LG
Senior Staff Geophysicist

Jeremy S. Strohmeyer, LG
Project Manager

JW:JS
Attachments: Figures (4)
cc: Craig Haden, NCDOT
FILE: G:\2011-SDE-JOBS\11821014_00_NCDOT_2011_GEOTECHNICAL_UNIT_SERVICES\11821014_18_P-5208H_MECKLENBURG_COUNTY\REPORT\PARCEL 4H\SCHNABEL GEOPHYSICAL REPORT ON PARCEL 4H (P-5208H).DOCX

Parcel 4H (Maola Milk & Ice Cream Property), looking west

Parcel 4H (Maola Milk & Ice Cream Property), looking northeast

Schnabel ENGINEERING

STATE PROJECT P-5208H
NC DEPT. OF TRANSPORTATION
MECKLENBURG COUNTY, NC
PROJECT NO. 11821014.18

PARCEL 4H
SITE PHOTOS

FIGURE 1

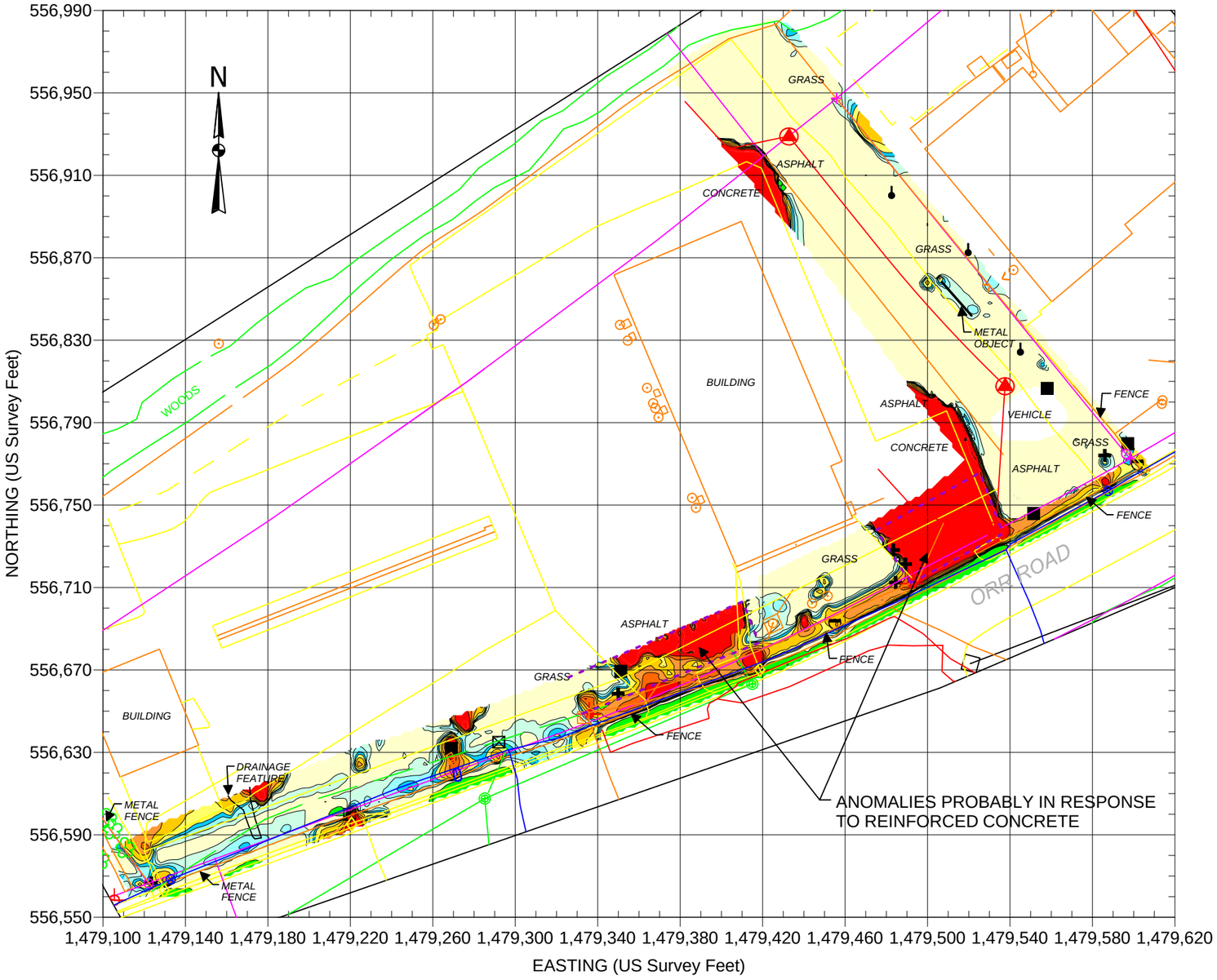
Geonics EM61-MK2 Metal Detector with Trimble DGPS Unit

GSSI SIR-3000 Ground-Penetrating Radar with 400 MHz Antenna

Note: Stock photographs – not taken on site.

Schnabel ENGINEERING	STATE PROJECT P-5208H NC DEPT. OF TRANSPORTATION MECKLENBURG COUNTY, NC PROJECT NO. 11821014.18	PHOTOS OF GEOPHYSICAL EQUIPMENT USED FIGURE 2

PARCEL 4H



EM61 Early Time Gate Response (mV)

-15000 -100 0 50 100 150 200 300 500 750 1000 2000

Scale in US Survey Feet

0 60 120 180

EXPLANATION

- SIGN
- MISCELLANEOUS METALLIC OBJECT
- UTILITY MANHOLE, METER, BOX, ETC.
- UTILITY POLE
- GUY WIRE
- EDGE OF NCDOT PROPOSED R/W
- PROPERTY LINE
- GPR SURVEY AREA

REF.: NCDOT FILE: P5208H_Rdy_psh04.dgn & P5208H_Rdy_psh05 (FOR SOME SITE FEATURES)

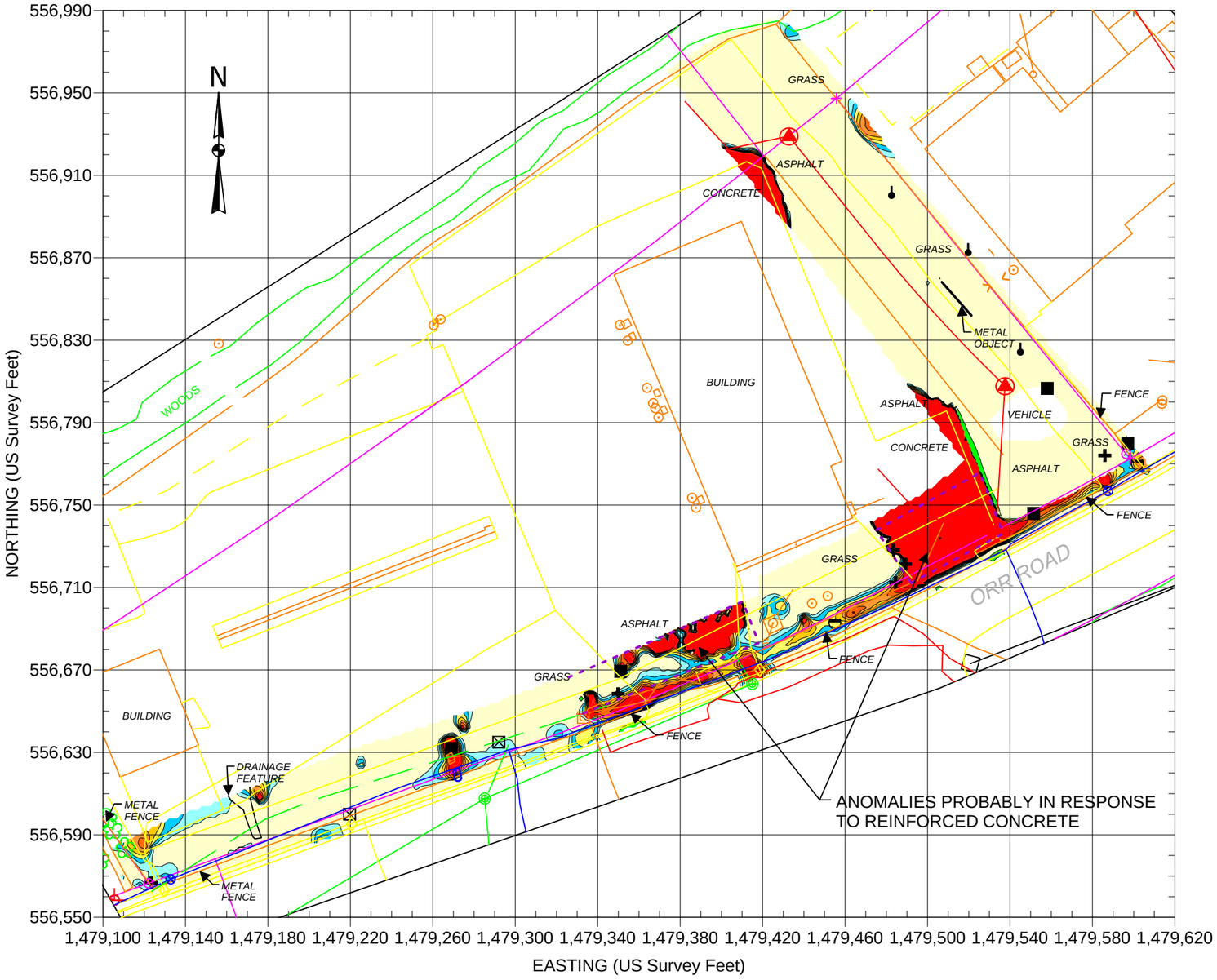
Note: The contour plot shows the earliest and more sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on August 24, 2012, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on August 29, 2012, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT P-5208H
NC DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY, NC
PROJECT NO. 11821014.18

EM61
EARLY TIME GATE
RESPONSE
FIGURE 3

PARCEL 4H



EM61 Differential Response (mV)

-20000 -100 0 40 60 80 100 120 140 160 200

Scale in US Survey Feet

0 60 120 180

EXPLANATION

- SIGN
- MISCELLANEOUS METALLIC OBJECT
- UTILITY MANHOLE, METER, BOX, ETC.
- UTILITY POLE
- GUY WIRE
- EDGE OF NCDOT PROPOSED R/W
- PROPERTY LINE
- GPR SURVEY AREA

REF.: NCDOT FILE: P5208H_Rdy_psh04.dgn & P5208H_Rdy_psh05 (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 August 24, 2012, 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 August 29, 2012, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

Schnabel ENGINEERING

STATE PROJECT P-5208H
NC DEPARTMENT OF TRANSPORTATION
MECKLENBURG COUNTY, NC
PROJECT NO. 11821014.18

EM61
DIFFERENTIAL
RESPONSE

FIGURE 4

Appendix D

Soil Boring Logs

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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

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

BORING NUMBER 4H-1

PROJECT: NC DOT State Project P-5208H
JOB NUMBER: ROW-407
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						TOPSOIL		0.0
			0	0		Dry, slightly firm, orange and brown silty CLAY		
2.5			0	0		Dry, soft, red and brown clayey SILT		2.5
5.0			0	0				5.0
			0	0		Dry, soft, clayey SILT with fine to coarse sand, relic structure		
7.5			0	0				7.5
10.0			0	0				10.0
12.5						Bottom of borehole at 12.0 feet.		12.5

DRILLING CONTRACTOR: PTI
DRILL RIG/ METHOD: Geoprobe 7720 / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL/TCD
DRAWN BY: TCD

BORING STARTED: 9/17/12
BORING COMPLETED: 9/17/12
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.

BORING LOG - HART HICKMAN.GDT - 11/5/12 11:25 - S:\AAA-MASTER GINT PROJECTS\ROW-407.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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BORING NUMBER 4H-2

PROJECT: NC DOT State Project P-5208H
JOB NUMBER: ROW-407
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						TOPSOIL		0.0
			0	0		Dry,soft, reddish brown clayey SILT		
2.5			0	0				2.5
5.0			0	0				5.0
7.5			0	0				7.5
10.0			0	0		Dry, soft, brown clayey SILT with fine to coarse sand		10.0
12.5						Bottom of borehole at 12.0 feet.		12.5

DRILLING CONTRACTOR: PTI
DRILL RIG/ METHOD: Geoprobe 7720 / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL/TCD
DRAWN BY: TCD

BORING STARTED: 9/17/12
BORING COMPLETED: 9/17/12
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.

BORING LOG - HART HICKMAN.GDT - 11/5/12 11:25 - S:\AAA-MASTER GINT PROJECTS\ROW-407.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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BORING NUMBER 4H-3

PROJECT: NC DOT State Project P-5208H
JOB NUMBER: ROW-407
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0.0						TOPSOIL	
			0	0		Slightly moist, slightly firm, brown and orange silty CLAY with fine to coarse sand	
2.5			0	0			
						Slightly moist, slightly firm, fine to coarse, sandy CLAY	
5.0			0	0			
7.5			0	0		Slightly moist, soft, clayey SILT with fine to coarse sand	
10.0			0	0			
12.5						Bottom of borehole at 12.0 feet.	

DRILLING CONTRACTOR: PTI
DRILL RIG/ METHOD: Geoprobe 7720 / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL/TCD
DRAWN BY: TCD

BORING STARTED: 9/17/12
BORING COMPLETED: 9/17/12
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.

BORING LOG - HART HICKMAN.GDT - 11/5/12 11:25 - S:\AAA-MASTER GINT PROJECTS\ROW-407.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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BORING NUMBER 4H-4

PROJECT: NC DOT State Project P-5208H
JOB NUMBER: ROW-407
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM
0.0						TOPSOIL	
			0	0		Slightly moist, soft, brown and orange, fine to coarse sandy CLAY	
2.5			0	0			
						Slightly moist, firm, brown and orange, fine to coarse sandy CLAY	
5.0			0	0			
			0	0			
7.5						Dry, firm, brown and orange, silty CLAY	
			0	0			
10.0						Dry, soft, tan and orange, clayey SILT	
			0	0			
12.5						Bottom of borehole at 12.0 feet.	

DRILLING CONTRACTOR: PTI
DRILL RIG/ METHOD: Geoprobe 7720 / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL/TCD
DRAWN BY: TCD

BORING STARTED: 9/17/12
BORING COMPLETED: 9/17/12
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.

BORING LOG - HART HICKMAN.GDT - 11/5/12 11:25 - S:\AAA-MASTER GINT PROJECTS\ROW-407.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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Raleigh, North Carolina 27607
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BORING NUMBER 4H-5

PROJECT: NC DOT State Project P-5208H
JOB NUMBER: ROW-407
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						TOPSOIL with grass		0.0
			0	0		Slightly moist, soft, reddish brown, clayey SILT with fine to coarse sand		
2.5			0	0				2.5
5.0			0	0				5.0
7.5			0	0				7.5
10.0			0	0				10.0
12.5						Bottom of borehole at 12.0 feet.		12.5

DRILLING CONTRACTOR: PTI
DRILL RIG/ METHOD: Geoprobe 7720 / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL/TCD
DRAWN BY: TCD

BORING STARTED: 9/17/12
BORING COMPLETED: 9/17/12
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.

BORING LOG - HART HICKMAN.GDT - 11/5/12 11:25 - S:\AAA-MASTER GINT PROJECTS\ROW-407.GPJ

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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BORING NUMBER 4H-6

PROJECT: NC DOT State Project P-5208H
JOB NUMBER: ROW-407
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						ASPHALT		0.0
			0	0		Dry, soft, white, orange, and tan, clayey SILT with fine to coarse sand		
2.5			0	0				2.5
5.0			0	0				5.0
			0	0				
7.5			0	0		Dry, soft, white, tan, and brown, fine to coarse sandy SILT		7.5
10.0			0	0				10.0
12.5						Bottom of borehole at 12.0 feet.		12.5

DRILLING CONTRACTOR: PTI
DRILL RIG/ METHOD: Geoprobe 7720 / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL/TCD
DRAWN BY: TCD

BORING STARTED: 9/17/12
BORING COMPLETED: 9/17/12
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

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Raleigh, North Carolina 27607
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BORING NUMBER 4H-7

PROJECT: NC DOT State Project P-5208H
JOB NUMBER: ROW-407
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION	BORING DIAGRAM	DEPTH (ft)
0.0						ASPHALT		0.0
			0	0		Dry, soft, orange and tan, fine to coarse sandy clayey SILT		
2.5			0	0				2.5
5.0			0	0				5.0
7.5			0	0				7.5
10.0			0	0				10.0
12.5						Bottom of borehole at 12.0 feet.		12.5

DRILLING CONTRACTOR: PTI
DRILL RIG/ METHOD: Geoprobe 7720 / Direct Push
SAMPLING METHOD: DPT Sleeves
LOGGED BY: JRL/TCD
DRAWN BY: TCD

BORING STARTED: 9/17/12
BORING COMPLETED: 9/17/12
TOTAL DEPTH: 12 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Soil sample collected from 2 to 4 ft bgs.

BORING LOG - HART HICKMAN.GDT - 11/5/12 11:25 - S:\AAA-MASTER GINT PROJECTS\ROW-407.GPJ

Appendix E

Laboratory Analytical Report

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 25, 2012

Chemical Testing Engineer
NCDOT
Materials & Tests Unit
1801 Blue Ridge Road
Raleigh, NC 27607

RE: Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Dear Chemical Engineer:
Enclosed are the analytical results for sample(s) received by the laboratory on September 18, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Pace Analytical
www.pacelabs.com

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92131883001	**4H-1(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883002	**4H-2(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883003	**4H-3(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883004	**4H-4(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883005	**4H-5(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883006	**4H-6(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883007	**4H-7(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883008	**SAND-1**	EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
92131883009	**SAND-2**	EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
92131883010	**SAND-3**	EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
92131883011	**5H-1(0-2)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883012	**5H-2(0-2)**	EPA 8015 Modified	MEJ	2	PASI-C

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www.pacelabs.com

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883013	**5H-3(0-2)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883014	**5H-4(0-2)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883015	**5H-5(1-2)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883016	**5H-6(1-2)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883017	**5H-7(10-12)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883018	**5H-8(8-10)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883019	**5H-9(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883020	**5H-10(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883021	**5H-11(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883022	**5H-12(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92131883023	**5H-13(2-4)**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

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ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 4H-1(2-4) **Lab ID: 92131883001** Collected: 09/17/12 11:00 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.9	1	09/19/12 08:45	09/20/12 17:38	68334-30-5	
Surrogates								
n-Pentacosane (S)	49	%	41-119	1	09/19/12 08:45	09/20/12 17:38	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.3	1	09/19/12 09:41	09/19/12 13:36	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	87	%	70-167	1	09/19/12 09:41	09/19/12 13:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.6**	%	0.10	1		09/19/12 13:37		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 4H-2(2-4) **Lab ID: 92131883002** Collected: 09/17/12 11:25 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.0	1	09/19/12 08:45	09/20/12 17:38	68334-30-5	
Surrogates								
n-Pentacosane (S)	70	%	41-119	1	09/19/12 08:45	09/20/12 17:38	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.9	1	09/19/12 09:41	09/19/12 13:59	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-167	1	09/19/12 09:41	09/19/12 13:59	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.4**	%	0.10	1		09/19/12 13:37		

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2225 Riverside Dr.
Asheville, NC 28804
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 4H-3(2-4) **Lab ID: 92131883003** Collected: 09/17/12 11:55 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.0	1	09/19/12 08:45	09/20/12 18:08	68334-30-5	
Surrogates								
n-Pentacosane (S)	69	%	41-119	1	09/19/12 08:45	09/20/12 18:08	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.3	1	09/19/12 09:41	09/19/12 14:22	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-167	1	09/19/12 09:41	09/19/12 14:22	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.9**	%	0.10	1		09/19/12 13:37		

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Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 4H-4(2-4) **Lab ID: 92131883004** Collected: 09/17/12 14:10 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.8	1	09/19/12 08:45	09/20/12 18:08	68334-30-5	
Surrogates								
n-Pentacosane (S)	72	%	41-119	1	09/19/12 08:45	09/20/12 18:08	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.0	1	09/19/12 09:41	09/19/12 14:45	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-167	1	09/19/12 09:41	09/19/12 14:45	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.0**	%	0.10	1		09/19/12 13:37		

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 4H-5(2-4) **Lab ID: 92131883005** Collected: 09/17/12 12:35 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.4	1	09/19/12 08:45	09/20/12 18:38	68334-30-5	
Surrogates								
n-Pentacosane (S)	64	%	41-119	1	09/19/12 08:45	09/20/12 18:38	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	9.6	1	09/19/12 09:41	09/19/12 15:08	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-167	1	09/19/12 09:41	09/19/12 15:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.7**	%	0.10	1		09/19/12 13:37		

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Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 4H-6(2-4) **Lab ID: 92131883006** Collected: 09/17/12 12:40 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.1	1	09/19/12 08:45	09/20/12 18:38	68334-30-5	
Surrogates								
n-Pentacosane (S)	64	%	41-119	1	09/19/12 08:45	09/20/12 18:38	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.8	1	09/19/12 09:41	09/19/12 15:31	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-167	1	09/19/12 09:41	09/19/12 15:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.5**	%	0.10	1		09/19/12 13:37		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 4H-7(2-4) **Lab ID: 92131883007** Collected: 09/17/12 13:50 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.0	1	09/19/12 08:45	09/20/12 19:37	68334-30-5	
Surrogates								
n-Pentacosane (S)	64	%	41-119	1	09/19/12 08:45	09/20/12 19:37	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.4	1	09/19/12 09:41	09/19/12 15:54	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-167	1	09/19/12 09:41	09/19/12 15:54	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.7**	%	0.10	1		09/19/12 13:38		

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205 East Meadow Road - Suite A
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(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: SAND-1 **Lab ID: 92131883008** Collected: 09/17/12 14:35 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**0.48**	mg/kg	0.47	1	09/19/12 03:50	09/19/12 17:44	7440-38-2	
Barium	**1150**	mg/kg	9.3	20	09/19/12 03:50	09/20/12 13:42	7440-39-3	
Cadmium	ND	mg/kg	0.093	1	09/19/12 03:50	09/19/12 17:44	7440-43-9	
Chromium	**20.6**	mg/kg	0.47	1	09/19/12 03:50	09/19/12 17:44	7440-47-3	
Lead	**8.7**	mg/kg	0.47	1	09/19/12 03:50	09/19/12 17:44	7439-92-1	
Selenium	**1.4**	mg/kg	0.93	1	09/19/12 03:50	09/19/12 17:44	7782-49-2	
Silver	ND	mg/kg	0.47	1	09/19/12 03:50	09/19/12 17:44	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0038	1	09/25/12 11:25	09/25/12 14:49	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**0.58**	%	0.10	1		09/25/12 08:13		

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(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: SAND-2 **Lab ID: 92131883009** Collected: 09/17/12 14:40 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	0.51	1	09/19/12 03:50	09/19/12 17:47	7440-38-2	
Barium	**12.3**	mg/kg	0.51	1	09/19/12 03:50	09/19/12 17:47	7440-39-3	
Cadmium	ND	mg/kg	0.10	1	09/19/12 03:50	09/19/12 17:47	7440-43-9	
Chromium	**24.7**	mg/kg	0.51	1	09/19/12 03:50	09/19/12 17:47	7440-47-3	
Lead	**8.6**	mg/kg	0.51	1	09/19/12 03:50	09/19/12 17:47	7439-92-1	
Selenium	ND	mg/kg	1.0	1	09/19/12 03:50	09/19/12 17:47	7782-49-2	
Silver	ND	mg/kg	0.51	1	09/19/12 03:50	09/19/12 17:47	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0046	1	09/25/12 11:25	09/25/12 14:52	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.1**	%	0.10	1		09/25/12 08:14		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
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(828)254-7176

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9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: SAND-3 **Lab ID: 92131883010** Collected: 09/17/12 14:45 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	0.48	1	09/19/12 03:50	09/19/12 17:50	7440-38-2	
Barium	**46.8**	mg/kg	0.48	1	09/19/12 03:50	09/19/12 17:50	7440-39-3	
Cadmium	**0.20**	mg/kg	0.096	1	09/19/12 03:50	09/19/12 17:50	7440-43-9	
Chromium	**6.7**	mg/kg	0.48	1	09/19/12 03:50	09/19/12 17:50	7440-47-3	
Lead	**10.9**	mg/kg	0.48	1	09/19/12 03:50	09/19/12 17:50	7439-92-1	
Selenium	ND	mg/kg	0.96	1	09/19/12 03:50	09/19/12 17:50	7782-49-2	
Silver	ND	mg/kg	0.48	1	09/19/12 03:50	09/19/12 17:50	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0067**	mg/kg	0.0049	1	09/25/12 11:25	09/25/12 14:55	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.0**	%	0.10	1		09/25/12 08:14		

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-1(0-2) **Lab ID: 92131883011** Collected: 09/17/12 14:55 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.1	1	09/19/12 08:45	09/20/12 19:37	68334-30-5	
Surrogates								
n-Pentacosane (S)	70	%	41-119	1	09/19/12 08:45	09/20/12 19:37	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	8.6	1	09/19/12 09:41	09/19/12 16:17	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-167	1	09/19/12 09:41	09/19/12 16:17	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**0.80**	mg/kg	0.55	1	09/19/12 03:50	09/19/12 17:53	7440-38-2	
Barium	**53.6**	mg/kg	0.55	1	09/19/12 03:50	09/19/12 17:53	7440-39-3	
Cadmium	**0.94**	mg/kg	0.11	1	09/19/12 03:50	09/19/12 17:53	7440-43-9	
Chromium	**4.5**	mg/kg	0.55	1	09/19/12 03:50	09/19/12 17:53	7440-47-3	
Lead	**5.8**	mg/kg	0.55	1	09/19/12 03:50	09/19/12 17:53	7439-92-1	
Selenium	**4.4**	mg/kg	1.1	1	09/19/12 03:50	09/19/12 17:53	7782-49-2	
Silver	ND	mg/kg	0.55	1	09/19/12 03:50	09/19/12 17:53	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.039**	mg/kg	0.0044	1	09/25/12 11:25	09/25/12 14:57	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	109	1		09/20/12 17:10	67-64-1	
Benzene	ND	ug/kg	5.4	1		09/20/12 17:10	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		09/20/12 17:10	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		09/20/12 17:10	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		09/20/12 17:10	75-27-4	
Bromoform	ND	ug/kg	5.4	1		09/20/12 17:10	75-25-2	
Bromomethane	ND	ug/kg	10.9	1		09/20/12 17:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	109	1		09/20/12 17:10	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		09/20/12 17:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		09/20/12 17:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		09/20/12 17:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.4	1		09/20/12 17:10	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		09/20/12 17:10	108-90-7	
Chloroethane	ND	ug/kg	10.9	1		09/20/12 17:10	75-00-3	
Chloroform	ND	ug/kg	5.4	1		09/20/12 17:10	67-66-3	
Chloromethane	ND	ug/kg	10.9	1		09/20/12 17:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		09/20/12 17:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		09/20/12 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		09/20/12 17:10	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1		09/20/12 17:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		09/20/12 17:10	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		09/20/12 17:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		09/20/12 17:10	95-50-1	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-1(0-2) **Lab ID: 92131883011** Collected: 09/17/12 14:55 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		09/20/12 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		09/20/12 17:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.9	1		09/20/12 17:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		09/20/12 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		09/20/12 17:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		09/20/12 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		09/20/12 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		09/20/12 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		09/20/12 17:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		09/20/12 17:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		09/20/12 17:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		09/20/12 17:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		09/20/12 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		09/20/12 17:10	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.4	1		09/20/12 17:10	108-20-3	
Ethylbenzene	ND	ug/kg	5.4	1		09/20/12 17:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		09/20/12 17:10	87-68-3	
2-Hexanone	ND	ug/kg	54.4	1		09/20/12 17:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		09/20/12 17:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		09/20/12 17:10	99-87-6	
Methylene Chloride	ND	ug/kg	21.7	1		09/20/12 17:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.4	1		09/20/12 17:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		09/20/12 17:10	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		09/20/12 17:10	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		09/20/12 17:10	103-65-1	
Styrene	ND	ug/kg	5.4	1		09/20/12 17:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		09/20/12 17:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		09/20/12 17:10	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		09/20/12 17:10	127-18-4	
Toluene	ND	ug/kg	5.4	1		09/20/12 17:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		09/20/12 17:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		09/20/12 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		09/20/12 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		09/20/12 17:10	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		09/20/12 17:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		09/20/12 17:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		09/20/12 17:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		09/20/12 17:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		09/20/12 17:10	108-67-8	
Vinyl acetate	ND	ug/kg	54.4	1		09/20/12 17:10	108-05-4	
Vinyl chloride	ND	ug/kg	10.9	1		09/20/12 17:10	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1		09/20/12 17:10	1330-20-7	
m&p-Xylene	ND	ug/kg	10.9	1		09/20/12 17:10	179601-23-1	
o-Xylene	ND	ug/kg	5.4	1		09/20/12 17:10	95-47-6	
Surrogates								
Dibromofluoromethane (S)	94	%	70-130	1		09/20/12 17:10	1868-53-7	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-1(0-2) **Lab ID: 92131883011** Collected: 09/17/12 14:55 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		09/20/12 17:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/20/12 17:10	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-132	1		09/20/12 17:10	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.7**	%	0.10	1		09/19/12 13:38		

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205 East Meadow Road - Suite A
Eden, NC 27288
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(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-2(0-2) **Lab ID: 92131883012** Collected: 09/17/12 15:30 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**10.6**	mg/kg	6.0	1	09/19/12 08:45	09/20/12 20:07	68334-30-5	
Surrogates								
n-Pentacosane (S)	78	%	41-119	1	09/19/12 08:45	09/20/12 20:07	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.2	1	09/19/12 09:41	09/19/12 16:39	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-167	1	09/19/12 09:41	09/19/12 16:39	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	0.57	1	09/19/12 03:50	09/19/12 17:56	7440-38-2	
Barium	**29.0**	mg/kg	0.57	1	09/19/12 03:50	09/19/12 17:56	7440-39-3	
Cadmium	**7.7**	mg/kg	0.11	1	09/19/12 03:50	09/19/12 17:56	7440-43-9	
Chromium	**28.9**	mg/kg	0.57	1	09/19/12 03:50	09/19/12 17:56	7440-47-3	
Lead	**12.2**	mg/kg	0.57	1	09/19/12 03:50	09/19/12 17:56	7439-92-1	
Selenium	**5.1**	mg/kg	1.1	1	09/19/12 03:50	09/19/12 17:56	7782-49-2	
Silver	ND	mg/kg	0.57	1	09/19/12 03:50	09/19/12 17:56	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.097**	mg/kg	0.0058	1	09/25/12 11:25	09/25/12 15:00	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	100	1		09/20/12 17:29	67-64-1	
Benzene	ND	ug/kg	5.0	1		09/20/12 17:29	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		09/20/12 17:29	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		09/20/12 17:29	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		09/20/12 17:29	75-27-4	
Bromoform	ND	ug/kg	5.0	1		09/20/12 17:29	75-25-2	
Bromomethane	ND	ug/kg	10.0	1		09/20/12 17:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	100	1		09/20/12 17:29	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		09/20/12 17:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		09/20/12 17:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		09/20/12 17:29	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		09/20/12 17:29	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		09/20/12 17:29	108-90-7	
Chloroethane	ND	ug/kg	10.0	1		09/20/12 17:29	75-00-3	
Chloroform	ND	ug/kg	5.0	1		09/20/12 17:29	67-66-3	
Chloromethane	ND	ug/kg	10.0	1		09/20/12 17:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		09/20/12 17:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		09/20/12 17:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		09/20/12 17:29	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		09/20/12 17:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		09/20/12 17:29	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		09/20/12 17:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		09/20/12 17:29	95-50-1	

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-2(0-2) **Lab ID: 92131883012** Collected: 09/17/12 15:30 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		09/20/12 17:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		09/20/12 17:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.0	1		09/20/12 17:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		09/20/12 17:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		09/20/12 17:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		09/20/12 17:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		09/20/12 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		09/20/12 17:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		09/20/12 17:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		09/20/12 17:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		09/20/12 17:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		09/20/12 17:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		09/20/12 17:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		09/20/12 17:29	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		09/20/12 17:29	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		09/20/12 17:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		09/20/12 17:29	87-68-3	
2-Hexanone	ND	ug/kg	50.1	1		09/20/12 17:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		09/20/12 17:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		09/20/12 17:29	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		09/20/12 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.1	1		09/20/12 17:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		09/20/12 17:29	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		09/20/12 17:29	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		09/20/12 17:29	103-65-1	
Styrene	ND	ug/kg	5.0	1		09/20/12 17:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		09/20/12 17:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		09/20/12 17:29	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		09/20/12 17:29	127-18-4	
Toluene	ND	ug/kg	5.0	1		09/20/12 17:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		09/20/12 17:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		09/20/12 17:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		09/20/12 17:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		09/20/12 17:29	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		09/20/12 17:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		09/20/12 17:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		09/20/12 17:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		09/20/12 17:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		09/20/12 17:29	108-67-8	
Vinyl acetate	ND	ug/kg	50.1	1		09/20/12 17:29	108-05-4	
Vinyl chloride	ND	ug/kg	10.0	1		09/20/12 17:29	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		09/20/12 17:29	1330-20-7	
m&p-Xylene	ND	ug/kg	10.0	1		09/20/12 17:29	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		09/20/12 17:29	95-47-6	
Surrogates								
Dibromofluoromethane (S)	97	%	70-130	1		09/20/12 17:29	1868-53-7	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-2(0-2) **Lab ID: 92131883012** Collected: 09/17/12 15:30 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	98	%	70-130	1		09/20/12 17:29	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/20/12 17:29	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-132	1		09/20/12 17:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.6**	%	0.10	1		09/19/12 13:38		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-3(0-2) **Lab ID: 92131883013** Collected: 09/17/12 16:00 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.9	1	09/19/12 08:45	09/20/12 20:07	68334-30-5	
Surrogates								
n-Pentacosane (S)	82	%	41-119	1	09/19/12 08:45	09/20/12 20:07	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.4	1	09/19/12 09:41	09/19/12 17:02	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-167	1	09/19/12 09:41	09/19/12 17:02	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.4**	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:00	7440-38-2	
Barium	**25.3**	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:00	7440-39-3	
Cadmium	**0.57**	mg/kg	0.11	1	09/19/12 03:50	09/19/12 18:00	7440-43-9	
Chromium	**12.3**	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:00	7440-47-3	
Lead	**3.8**	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:00	7439-92-1	
Selenium	**3.0**	mg/kg	1.1	1	09/19/12 03:50	09/19/12 18:00	7782-49-2	
Silver	ND	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:00	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.046**	mg/kg	0.0050	1	09/25/12 11:25	09/25/12 15:03	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	103	1		09/20/12 17:47	67-64-1	
Benzene	ND	ug/kg	5.1	1		09/20/12 17:47	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		09/20/12 17:47	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		09/20/12 17:47	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		09/20/12 17:47	75-27-4	
Bromoform	ND	ug/kg	5.1	1		09/20/12 17:47	75-25-2	
Bromomethane	ND	ug/kg	10.3	1		09/20/12 17:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	103	1		09/20/12 17:47	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		09/20/12 17:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		09/20/12 17:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		09/20/12 17:47	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.1	1		09/20/12 17:47	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		09/20/12 17:47	108-90-7	
Chloroethane	ND	ug/kg	10.3	1		09/20/12 17:47	75-00-3	
Chloroform	ND	ug/kg	5.1	1		09/20/12 17:47	67-66-3	
Chloromethane	ND	ug/kg	10.3	1		09/20/12 17:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		09/20/12 17:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		09/20/12 17:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		09/20/12 17:47	96-12-8	
Dibromochloromethane	ND	ug/kg	5.1	1		09/20/12 17:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		09/20/12 17:47	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		09/20/12 17:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		09/20/12 17:47	95-50-1	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-3(0-2) **Lab ID: 92131883013** Collected: 09/17/12 16:00 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		09/20/12 17:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		09/20/12 17:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.3	1		09/20/12 17:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		09/20/12 17:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		09/20/12 17:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		09/20/12 17:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		09/20/12 17:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		09/20/12 17:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		09/20/12 17:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		09/20/12 17:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		09/20/12 17:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		09/20/12 17:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		09/20/12 17:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		09/20/12 17:47	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.1	1		09/20/12 17:47	108-20-3	
Ethylbenzene	ND	ug/kg	5.1	1		09/20/12 17:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		09/20/12 17:47	87-68-3	
2-Hexanone	ND	ug/kg	51.3	1		09/20/12 17:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		09/20/12 17:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		09/20/12 17:47	99-87-6	
Methylene Chloride	ND	ug/kg	20.5	1		09/20/12 17:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.3	1		09/20/12 17:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		09/20/12 17:47	1634-04-4	
Naphthalene	ND	ug/kg	5.1	1		09/20/12 17:47	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		09/20/12 17:47	103-65-1	
Styrene	ND	ug/kg	5.1	1		09/20/12 17:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		09/20/12 17:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		09/20/12 17:47	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		09/20/12 17:47	127-18-4	
Toluene	ND	ug/kg	5.1	1		09/20/12 17:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		09/20/12 17:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		09/20/12 17:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		09/20/12 17:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		09/20/12 17:47	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		09/20/12 17:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		09/20/12 17:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		09/20/12 17:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		09/20/12 17:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		09/20/12 17:47	108-67-8	
Vinyl acetate	ND	ug/kg	51.3	1		09/20/12 17:47	108-05-4	
Vinyl chloride	ND	ug/kg	10.3	1		09/20/12 17:47	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		09/20/12 17:47	1330-20-7	
m&p-Xylene	ND	ug/kg	10.3	1		09/20/12 17:47	179601-23-1	
o-Xylene	ND	ug/kg	5.1	1		09/20/12 17:47	95-47-6	
Surrogates								
Dibromofluoromethane (S)	93	%	70-130	1		09/20/12 17:47	1868-53-7	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-3(0-2) **Lab ID: 92131883013** Collected: 09/17/12 16:00 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		09/20/12 17:47	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		09/20/12 17:47	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-132	1		09/20/12 17:47	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.7**	%	0.10	1		09/19/12 13:38		

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205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
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(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-4(0-2) **Lab ID: 92131883014** Collected: 09/17/12 16:20 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.9	1	09/19/12 08:45	09/20/12 20:37	68334-30-5	
Surrogates								
n-Pentacosane (S)	58	%	41-119	1	09/19/12 08:45	09/20/12 20:37	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.5	1	09/19/12 09:41	09/19/12 17:25	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-167	1	09/19/12 09:41	09/19/12 17:25	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.4**	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:03	7440-38-2	
Barium	**19.7**	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:03	7440-39-3	
Cadmium	ND	mg/kg	0.11	1	09/19/12 03:50	09/19/12 18:03	7440-43-9	
Chromium	**7.4**	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:03	7440-47-3	
Lead	**3.8**	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:03	7439-92-1	
Selenium	**2.0**	mg/kg	1.1	1	09/19/12 03:50	09/19/12 18:03	7782-49-2	
Silver	ND	mg/kg	0.54	1	09/19/12 03:50	09/19/12 18:03	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.022**	mg/kg	0.0038	1	09/25/12 11:25	09/25/12 15:05	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	100	1		09/20/12 18:06	67-64-1	
Benzene	ND	ug/kg	5.0	1		09/20/12 18:06	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		09/20/12 18:06	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		09/20/12 18:06	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		09/20/12 18:06	75-27-4	
Bromoform	ND	ug/kg	5.0	1		09/20/12 18:06	75-25-2	
Bromomethane	ND	ug/kg	10.0	1		09/20/12 18:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	100	1		09/20/12 18:06	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		09/20/12 18:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		09/20/12 18:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		09/20/12 18:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		09/20/12 18:06	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		09/20/12 18:06	108-90-7	
Chloroethane	ND	ug/kg	10.0	1		09/20/12 18:06	75-00-3	
Chloroform	ND	ug/kg	5.0	1		09/20/12 18:06	67-66-3	
Chloromethane	ND	ug/kg	10.0	1		09/20/12 18:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		09/20/12 18:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		09/20/12 18:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		09/20/12 18:06	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		09/20/12 18:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		09/20/12 18:06	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		09/20/12 18:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		09/20/12 18:06	95-50-1	

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-4(0-2) **Lab ID: 92131883014** Collected: 09/17/12 16:20 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		09/20/12 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		09/20/12 18:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.0	1		09/20/12 18:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		09/20/12 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		09/20/12 18:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		09/20/12 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		09/20/12 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		09/20/12 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		09/20/12 18:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		09/20/12 18:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		09/20/12 18:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		09/20/12 18:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		09/20/12 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		09/20/12 18:06	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		09/20/12 18:06	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		09/20/12 18:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		09/20/12 18:06	87-68-3	
2-Hexanone	ND	ug/kg	50.2	1		09/20/12 18:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		09/20/12 18:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		09/20/12 18:06	99-87-6	
Methylene Chloride	ND	ug/kg	20.1	1		09/20/12 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.2	1		09/20/12 18:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		09/20/12 18:06	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		09/20/12 18:06	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		09/20/12 18:06	103-65-1	
Styrene	ND	ug/kg	5.0	1		09/20/12 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		09/20/12 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		09/20/12 18:06	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		09/20/12 18:06	127-18-4	
Toluene	ND	ug/kg	5.0	1		09/20/12 18:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		09/20/12 18:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		09/20/12 18:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		09/20/12 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		09/20/12 18:06	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		09/20/12 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		09/20/12 18:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		09/20/12 18:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		09/20/12 18:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		09/20/12 18:06	108-67-8	
Vinyl acetate	ND	ug/kg	50.2	1		09/20/12 18:06	108-05-4	
Vinyl chloride	ND	ug/kg	10.0	1		09/20/12 18:06	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		09/20/12 18:06	1330-20-7	
m&p-Xylene	ND	ug/kg	10.0	1		09/20/12 18:06	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		09/20/12 18:06	95-47-6	
Surrogates								
Dibromofluoromethane (S)	92	%	70-130	1		09/20/12 18:06	1868-53-7	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-4(0-2) **Lab ID: 92131883014** Collected: 09/17/12 16:20 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		09/20/12 18:06	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		09/20/12 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-132	1		09/20/12 18:06	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.0**	%	0.10	1		09/19/12 13:38		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-5(1-2) **Lab ID: 92131883015** Collected: 09/18/12 09:00 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**29.6**	mg/kg	5.9	1	09/19/12 08:45	09/20/12 20:37	68334-30-5	
Surrogates								
n-Pentacosane (S)	83	%	41-119	1	09/19/12 08:45	09/20/12 20:37	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.2	1	09/19/12 09:41	09/19/12 17:48	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-167	1	09/19/12 09:41	09/19/12 17:48	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**2.1**	mg/kg	0.49	1	09/19/12 03:50	09/19/12 20:39	7440-38-2	
Barium	**26.8**	mg/kg	0.49	1	09/19/12 03:50	09/19/12 20:39	7440-39-3	
Cadmium	ND	mg/kg	0.097	1	09/19/12 03:50	09/19/12 20:39	7440-43-9	
Chromium	**6.5**	mg/kg	0.49	1	09/19/12 03:50	09/19/12 20:39	7440-47-3	
Lead	**9.0**	mg/kg	0.49	1	09/19/12 03:50	09/19/12 20:39	7439-92-1	
Selenium	**2.4**	mg/kg	0.97	1	09/19/12 03:50	09/19/12 20:39	7782-49-2	
Silver	ND	mg/kg	0.49	1	09/19/12 03:50	09/19/12 20:39	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.037**	mg/kg	0.0052	1	09/25/12 11:25	09/25/12 15:08	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	98.4	1		09/20/12 18:24	67-64-1	
Benzene	ND	ug/kg	4.9	1		09/20/12 18:24	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		09/20/12 18:24	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		09/20/12 18:24	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		09/20/12 18:24	75-27-4	
Bromoform	ND	ug/kg	4.9	1		09/20/12 18:24	75-25-2	
Bromomethane	ND	ug/kg	9.8	1		09/20/12 18:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	98.4	1		09/20/12 18:24	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		09/20/12 18:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		09/20/12 18:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		09/20/12 18:24	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		09/20/12 18:24	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		09/20/12 18:24	108-90-7	
Chloroethane	ND	ug/kg	9.8	1		09/20/12 18:24	75-00-3	
Chloroform	ND	ug/kg	4.9	1		09/20/12 18:24	67-66-3	
Chloromethane	ND	ug/kg	9.8	1		09/20/12 18:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		09/20/12 18:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		09/20/12 18:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		09/20/12 18:24	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		09/20/12 18:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		09/20/12 18:24	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		09/20/12 18:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		09/20/12 18:24	95-50-1	

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205 East Meadow Road - Suite A
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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-5(1-2) **Lab ID: 92131883015** Collected: 09/18/12 09:00 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		09/20/12 18:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		09/20/12 18:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.8	1		09/20/12 18:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		09/20/12 18:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		09/20/12 18:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		09/20/12 18:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		09/20/12 18:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		09/20/12 18:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		09/20/12 18:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		09/20/12 18:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		09/20/12 18:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		09/20/12 18:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		09/20/12 18:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		09/20/12 18:24	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		09/20/12 18:24	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1		09/20/12 18:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		09/20/12 18:24	87-68-3	
2-Hexanone	ND	ug/kg	49.2	1		09/20/12 18:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		09/20/12 18:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		09/20/12 18:24	99-87-6	
Methylene Chloride	ND	ug/kg	19.7	1		09/20/12 18:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	49.2	1		09/20/12 18:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		09/20/12 18:24	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		09/20/12 18:24	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		09/20/12 18:24	103-65-1	
Styrene	ND	ug/kg	4.9	1		09/20/12 18:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		09/20/12 18:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		09/20/12 18:24	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		09/20/12 18:24	127-18-4	
Toluene	ND	ug/kg	4.9	1		09/20/12 18:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		09/20/12 18:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		09/20/12 18:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		09/20/12 18:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		09/20/12 18:24	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		09/20/12 18:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		09/20/12 18:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		09/20/12 18:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		09/20/12 18:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		09/20/12 18:24	108-67-8	
Vinyl acetate	ND	ug/kg	49.2	1		09/20/12 18:24	108-05-4	
Vinyl chloride	ND	ug/kg	9.8	1		09/20/12 18:24	75-01-4	
Xylene (Total)	ND	ug/kg	9.8	1		09/20/12 18:24	1330-20-7	
m&p-Xylene	ND	ug/kg	9.8	1		09/20/12 18:24	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		09/20/12 18:24	95-47-6	
Surrogates								
Dibromofluoromethane (S)	127	%	70-130	1		09/20/12 18:24	1868-53-7	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-5(1-2) **Lab ID: 92131883015** Collected: 09/18/12 09:00 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		09/20/12 18:24	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		09/20/12 18:24	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-132	1		09/20/12 18:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.6**	%	0.10	1		09/19/12 13:38		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-6(1-2) **Lab ID: 92131883016** Collected: 09/18/12 10:50 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	5.6	1	09/19/12 08:45	09/20/12 21:07	68334-30-5	
Surrogates								
n-Pentacosane (S)	74	%	41-119	1	09/19/12 08:45	09/20/12 21:07	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	5.5	1	09/19/12 09:41	09/19/12 18:11	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-167	1	09/19/12 09:41	09/19/12 18:11	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.9**	mg/kg	0.56	1	09/19/12 03:50	09/19/12 20:46	7440-38-2	
Barium	**10.9**	mg/kg	0.56	1	09/19/12 03:50	09/19/12 20:46	7440-39-3	
Cadmium	ND	mg/kg	0.11	1	09/19/12 03:50	09/19/12 20:46	7440-43-9	
Chromium	**7.7**	mg/kg	0.56	1	09/19/12 03:50	09/19/12 20:46	7440-47-3	
Lead	**4.7**	mg/kg	0.56	1	09/19/12 03:50	09/19/12 20:46	7439-92-1	
Selenium	**2.1**	mg/kg	1.1	1	09/19/12 03:50	09/19/12 20:46	7782-49-2	
Silver	ND	mg/kg	0.56	1	09/19/12 03:50	09/19/12 20:46	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.016**	mg/kg	0.0041	1	09/25/12 11:25	09/25/12 15:10	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	87.9	1		09/20/12 18:42	67-64-1	
Benzene	ND	ug/kg	4.4	1		09/20/12 18:42	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		09/20/12 18:42	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		09/20/12 18:42	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		09/20/12 18:42	75-27-4	
Bromoform	ND	ug/kg	4.4	1		09/20/12 18:42	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		09/20/12 18:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	87.9	1		09/20/12 18:42	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		09/20/12 18:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		09/20/12 18:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		09/20/12 18:42	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		09/20/12 18:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		09/20/12 18:42	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		09/20/12 18:42	75-00-3	
Chloroform	ND	ug/kg	4.4	1		09/20/12 18:42	67-66-3	
Chloromethane	ND	ug/kg	8.8	1		09/20/12 18:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		09/20/12 18:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		09/20/12 18:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		09/20/12 18:42	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		09/20/12 18:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		09/20/12 18:42	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		09/20/12 18:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		09/20/12 18:42	95-50-1	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-6(1-2) **Lab ID: 92131883016** Collected: 09/18/12 10:50 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		09/20/12 18:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		09/20/12 18:42	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		09/20/12 18:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		09/20/12 18:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		09/20/12 18:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		09/20/12 18:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		09/20/12 18:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		09/20/12 18:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		09/20/12 18:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		09/20/12 18:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		09/20/12 18:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		09/20/12 18:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		09/20/12 18:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		09/20/12 18:42	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		09/20/12 18:42	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		09/20/12 18:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		09/20/12 18:42	87-68-3	
2-Hexanone	ND	ug/kg	44.0	1		09/20/12 18:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		09/20/12 18:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		09/20/12 18:42	99-87-6	
Methylene Chloride	ND	ug/kg	17.6	1		09/20/12 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.0	1		09/20/12 18:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		09/20/12 18:42	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		09/20/12 18:42	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		09/20/12 18:42	103-65-1	
Styrene	ND	ug/kg	4.4	1		09/20/12 18:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		09/20/12 18:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		09/20/12 18:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		09/20/12 18:42	127-18-4	
Toluene	ND	ug/kg	4.4	1		09/20/12 18:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		09/20/12 18:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		09/20/12 18:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		09/20/12 18:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		09/20/12 18:42	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		09/20/12 18:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		09/20/12 18:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		09/20/12 18:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		09/20/12 18:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		09/20/12 18:42	108-67-8	
Vinyl acetate	ND	ug/kg	44.0	1		09/20/12 18:42	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		09/20/12 18:42	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		09/20/12 18:42	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		09/20/12 18:42	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		09/20/12 18:42	95-47-6	
Surrogates								
Dibromofluoromethane (S)	125	%	70-130	1		09/20/12 18:42	1868-53-7	

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205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-6(1-2) **Lab ID: 92131883016** Collected: 09/18/12 10:50 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		09/20/12 18:42	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		09/20/12 18:42	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-132	1		09/20/12 18:42	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.2**	%	0.10	1		09/19/12 13:38		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-7(10-12) **Lab ID: 92131883017** Collected: 09/18/12 09:50 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**281**	mg/kg	6.0	1	09/19/12 08:45	09/20/12 21:07	68334-30-5	
Surrogates								
n-Pentacosane (S)	77	%	41-119	1	09/19/12 08:45	09/20/12 21:07	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**97.2**	mg/kg	7.0	1	09/19/12 09:41	09/19/12 18:34	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	145	%	70-167	1	09/19/12 09:41	09/19/12 18:34	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**2.7**	mg/kg	0.59	1	09/19/12 03:50	09/19/12 21:01	7440-38-2	
Barium	**17.1**	mg/kg	0.59	1	09/19/12 03:50	09/19/12 21:01	7440-39-3	
Cadmium	ND	mg/kg	0.12	1	09/19/12 03:50	09/19/12 21:01	7440-43-9	
Chromium	**2.5**	mg/kg	0.59	1	09/19/12 03:50	09/19/12 21:01	7440-47-3	
Lead	**9.1**	mg/kg	0.59	1	09/19/12 03:50	09/19/12 21:01	7439-92-1	
Selenium	**1.5**	mg/kg	1.2	1	09/19/12 03:50	09/19/12 21:01	7782-49-2	
Silver	ND	mg/kg	0.59	1	09/19/12 03:50	09/19/12 21:01	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0095**	mg/kg	0.0058	1	09/25/12 11:25	09/25/12 15:13	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	6830	50		09/20/12 19:01	67-64-1	
Benzene	ND	ug/kg	342	50		09/20/12 19:01	71-43-2	
Bromobenzene	ND	ug/kg	342	50		09/20/12 19:01	108-86-1	
Bromochloromethane	ND	ug/kg	342	50		09/20/12 19:01	74-97-5	
Bromodichloromethane	ND	ug/kg	342	50		09/20/12 19:01	75-27-4	
Bromoform	ND	ug/kg	342	50		09/20/12 19:01	75-25-2	
Bromomethane	ND	ug/kg	683	50		09/20/12 19:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	6830	50		09/20/12 19:01	78-93-3	
n-Butylbenzene	**464**	ug/kg	342	50		09/20/12 19:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	342	50		09/20/12 19:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	342	50		09/20/12 19:01	98-06-6	
Carbon tetrachloride	ND	ug/kg	342	50		09/20/12 19:01	56-23-5	
Chlorobenzene	ND	ug/kg	342	50		09/20/12 19:01	108-90-7	
Chloroethane	ND	ug/kg	683	50		09/20/12 19:01	75-00-3	
Chloroform	ND	ug/kg	342	50		09/20/12 19:01	67-66-3	
Chloromethane	ND	ug/kg	683	50		09/20/12 19:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	342	50		09/20/12 19:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	342	50		09/20/12 19:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	342	50		09/20/12 19:01	96-12-8	
Dibromochloromethane	ND	ug/kg	342	50		09/20/12 19:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	342	50		09/20/12 19:01	106-93-4	
Dibromomethane	ND	ug/kg	342	50		09/20/12 19:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	342	50		09/20/12 19:01	95-50-1	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-7(10-12) **Lab ID: 92131883017** Collected: 09/18/12 09:50 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	342	50		09/20/12 19:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	342	50		09/20/12 19:01	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	683	50		09/20/12 19:01	75-71-8	D3
1,1-Dichloroethane	ND	ug/kg	342	50		09/20/12 19:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	342	50		09/20/12 19:01	107-06-2	
1,1-Dichloroethene	ND	ug/kg	342	50		09/20/12 19:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	342	50		09/20/12 19:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	342	50		09/20/12 19:01	156-60-5	
1,2-Dichloropropane	ND	ug/kg	342	50		09/20/12 19:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	342	50		09/20/12 19:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	342	50		09/20/12 19:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	342	50		09/20/12 19:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	342	50		09/20/12 19:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	342	50		09/20/12 19:01	10061-02-6	
Diisopropyl ether	ND	ug/kg	342	50		09/20/12 19:01	108-20-3	
Ethylbenzene	ND	ug/kg	342	50		09/20/12 19:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	342	50		09/20/12 19:01	87-68-3	
2-Hexanone	ND	ug/kg	3420	50		09/20/12 19:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	342	50		09/20/12 19:01	98-82-8	
p-Isopropyltoluene	**623**	ug/kg	342	50		09/20/12 19:01	99-87-6	
Methylene Chloride	ND	ug/kg	1370	50		09/20/12 19:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	3420	50		09/20/12 19:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	342	50		09/20/12 19:01	1634-04-4	
Naphthalene	**1050**	ug/kg	342	50		09/20/12 19:01	91-20-3	
n-Propylbenzene	ND	ug/kg	342	50		09/20/12 19:01	103-65-1	
Styrene	ND	ug/kg	342	50		09/20/12 19:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	342	50		09/20/12 19:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	342	50		09/20/12 19:01	79-34-5	
Tetrachloroethene	ND	ug/kg	342	50		09/20/12 19:01	127-18-4	
Toluene	ND	ug/kg	342	50		09/20/12 19:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	342	50		09/20/12 19:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	342	50		09/20/12 19:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	342	50		09/20/12 19:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	342	50		09/20/12 19:01	79-00-5	
Trichloroethene	ND	ug/kg	342	50		09/20/12 19:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	342	50		09/20/12 19:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	342	50		09/20/12 19:01	96-18-4	
1,2,4-Trimethylbenzene	**2550**	ug/kg	342	50		09/20/12 19:01	95-63-6	
1,3,5-Trimethylbenzene	**1030**	ug/kg	342	50		09/20/12 19:01	108-67-8	
Vinyl acetate	ND	ug/kg	3420	50		09/20/12 19:01	108-05-4	
Vinyl chloride	ND	ug/kg	683	50		09/20/12 19:01	75-01-4	
Xylene (Total)	**1720**	ug/kg	683	50		09/20/12 19:01	1330-20-7	
m&p-Xylene	**1240**	ug/kg	683	50		09/20/12 19:01	179601-23-1	
o-Xylene	**482**	ug/kg	342	50		09/20/12 19:01	95-47-6	
Surrogates								
Dibromofluoromethane (S)	142	%	70-130	50		09/20/12 19:01	1868-53-7	S5

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-7(10-12) **Lab ID: 92131883017** Collected: 09/18/12 09:50 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	98	%	70-130	50		09/20/12 19:01	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	50		09/20/12 19:01	460-00-4	
1,2-Dichloroethane-d4 (S)	126	%	70-132	50		09/20/12 19:01	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.3**	%	0.10	1		09/19/12 13:39		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-8(8-10) **Lab ID: 92131883018** Collected: 09/18/12 10:25 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**80.6**	mg/kg	6.3	1	09/19/12 08:45	09/20/12 21:37	68334-30-5	
Surrogates								
n-Pentacosane (S)	74	%	41-119	1	09/19/12 08:45	09/20/12 21:37	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**15.4**	mg/kg	7.0	1	09/19/12 09:41	09/19/12 18:57	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	117	%	70-167	1	09/19/12 09:41	09/19/12 18:57	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.5**	mg/kg	0.63	1	09/19/12 03:50	09/19/12 21:04	7440-38-2	
Barium	**16.5**	mg/kg	0.63	1	09/19/12 03:50	09/19/12 21:04	7440-39-3	
Cadmium	ND	mg/kg	0.13	1	09/19/12 03:50	09/19/12 21:04	7440-43-9	
Chromium	**8.2**	mg/kg	0.63	1	09/19/12 03:50	09/19/12 21:04	7440-47-3	
Lead	**6.8**	mg/kg	0.63	1	09/19/12 03:50	09/19/12 21:04	7439-92-1	
Selenium	**2.5**	mg/kg	1.3	1	09/19/12 03:50	09/19/12 21:04	7782-49-2	
Silver	ND	mg/kg	0.63	1	09/19/12 03:50	09/19/12 21:04	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.016**	mg/kg	0.0055	1	09/25/12 11:25	09/25/12 15:21	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	1920	20		09/21/12 13:10	67-64-1	
Benzene	ND	ug/kg	96.0	20		09/21/12 13:10	71-43-2	
Bromobenzene	ND	ug/kg	96.0	20		09/21/12 13:10	108-86-1	
Bromochloromethane	ND	ug/kg	96.0	20		09/21/12 13:10	74-97-5	
Bromodichloromethane	ND	ug/kg	96.0	20		09/21/12 13:10	75-27-4	
Bromoform	ND	ug/kg	96.0	20		09/21/12 13:10	75-25-2	
Bromomethane	ND	ug/kg	192	20		09/21/12 13:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	1920	20		09/21/12 13:10	78-93-3	
n-Butylbenzene	ND	ug/kg	96.0	20		09/21/12 13:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	96.0	20		09/21/12 13:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	96.0	20		09/21/12 13:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	96.0	20		09/21/12 13:10	56-23-5	
Chlorobenzene	ND	ug/kg	96.0	20		09/21/12 13:10	108-90-7	
Chloroethane	ND	ug/kg	192	20		09/21/12 13:10	75-00-3	
Chloroform	ND	ug/kg	96.0	20		09/21/12 13:10	67-66-3	
Chloromethane	ND	ug/kg	192	20		09/21/12 13:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	96.0	20		09/21/12 13:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	96.0	20		09/21/12 13:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	96.0	20		09/21/12 13:10	96-12-8	
Dibromochloromethane	ND	ug/kg	96.0	20		09/21/12 13:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	96.0	20		09/21/12 13:10	106-93-4	
Dibromomethane	ND	ug/kg	96.0	20		09/21/12 13:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	96.0	20		09/21/12 13:10	95-50-1	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-8(8-10) **Lab ID: 92131883018** Collected: 09/18/12 10:25 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	96.0	20		09/21/12 13:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	96.0	20		09/21/12 13:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	192	20		09/21/12 13:10	75-71-8	D3
1,1-Dichloroethane	ND	ug/kg	96.0	20		09/21/12 13:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	96.0	20		09/21/12 13:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	96.0	20		09/21/12 13:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	96.0	20		09/21/12 13:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	96.0	20		09/21/12 13:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	96.0	20		09/21/12 13:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	96.0	20		09/21/12 13:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	96.0	20		09/21/12 13:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	96.0	20		09/21/12 13:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	96.0	20		09/21/12 13:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	96.0	20		09/21/12 13:10	10061-02-6	
Diisopropyl ether	ND	ug/kg	96.0	20		09/21/12 13:10	108-20-3	
Ethylbenzene	ND	ug/kg	96.0	20		09/21/12 13:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	96.0	20		09/21/12 13:10	87-68-3	
2-Hexanone	ND	ug/kg	960	20		09/21/12 13:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	96.0	20		09/21/12 13:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	96.0	20		09/21/12 13:10	99-87-6	
Methylene Chloride	ND	ug/kg	384	20		09/21/12 13:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	960	20		09/21/12 13:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	96.0	20		09/21/12 13:10	1634-04-4	
Naphthalene	ND	ug/kg	96.0	20		09/21/12 13:10	91-20-3	
n-Propylbenzene	ND	ug/kg	96.0	20		09/21/12 13:10	103-65-1	
Styrene	ND	ug/kg	96.0	20		09/21/12 13:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	96.0	20		09/21/12 13:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	96.0	20		09/21/12 13:10	79-34-5	
Tetrachloroethene	ND	ug/kg	96.0	20		09/21/12 13:10	127-18-4	
Toluene	ND	ug/kg	96.0	20		09/21/12 13:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	96.0	20		09/21/12 13:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	96.0	20		09/21/12 13:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	96.0	20		09/21/12 13:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	96.0	20		09/21/12 13:10	79-00-5	
Trichloroethene	ND	ug/kg	96.0	20		09/21/12 13:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	96.0	20		09/21/12 13:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	96.0	20		09/21/12 13:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	96.0	20		09/21/12 13:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	96.0	20		09/21/12 13:10	108-67-8	
Vinyl acetate	ND	ug/kg	960	20		09/21/12 13:10	108-05-4	
Vinyl chloride	ND	ug/kg	192	20		09/21/12 13:10	75-01-4	
Xylene (Total)	ND	ug/kg	192	20		09/21/12 13:10	1330-20-7	
m&p-Xylene	ND	ug/kg	192	20		09/21/12 13:10	179601-23-1	
o-Xylene	ND	ug/kg	96.0	20		09/21/12 13:10	95-47-6	
Surrogates								
Dibromofluoromethane (S)	121	%	70-130	20		09/21/12 13:10	1868-53-7	S5

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-8(8-10) **Lab ID: 92131883018** Collected: 09/18/12 10:25 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	101	%	70-130	20		09/21/12 13:10	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	20		09/21/12 13:10	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-132	20		09/21/12 13:10	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.4**	%	0.10	1		09/19/12 13:39		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-9(2-4) **Lab ID: 92131883019** Collected: 09/18/12 11:20 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.8	1	09/19/12 08:45	09/20/12 21:37	68334-30-5	
Surrogates								
n-Pentacosane (S)	74	%	41-119	1	09/19/12 08:45	09/20/12 21:37	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	8.4	1	09/19/12 14:00	09/19/12 21:14	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	87	%	70-167	1	09/19/12 14:00	09/19/12 21:14	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	0.66	1	09/19/12 03:50	09/19/12 21:07	7440-38-2	
Barium	**10.8**	mg/kg	0.66	1	09/19/12 03:50	09/19/12 21:07	7440-39-3	
Cadmium	**22.1**	mg/kg	0.13	1	09/19/12 03:50	09/19/12 21:07	7440-43-9	
Chromium	**99.3**	mg/kg	0.66	1	09/19/12 03:50	09/19/12 21:07	7440-47-3	
Lead	**20.9**	mg/kg	0.66	1	09/19/12 03:50	09/19/12 21:07	7439-92-1	
Selenium	**10.3**	mg/kg	1.3	1	09/19/12 03:50	09/19/12 21:07	7782-49-2	
Silver	ND	mg/kg	0.66	1	09/19/12 03:50	09/19/12 21:07	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.17**	mg/kg	0.0064	1	09/25/12 11:25	09/25/12 15:24	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	153	1		09/20/12 19:37	67-64-1	
Benzene	ND	ug/kg	7.7	1		09/20/12 19:37	71-43-2	
Bromobenzene	ND	ug/kg	7.7	1		09/20/12 19:37	108-86-1	
Bromochloromethane	ND	ug/kg	7.7	1		09/20/12 19:37	74-97-5	
Bromodichloromethane	ND	ug/kg	7.7	1		09/20/12 19:37	75-27-4	
Bromoform	ND	ug/kg	7.7	1		09/20/12 19:37	75-25-2	
Bromomethane	ND	ug/kg	15.3	1		09/20/12 19:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	153	1		09/20/12 19:37	78-93-3	
n-Butylbenzene	ND	ug/kg	7.7	1		09/20/12 19:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.7	1		09/20/12 19:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.7	1		09/20/12 19:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.7	1		09/20/12 19:37	56-23-5	
Chlorobenzene	ND	ug/kg	7.7	1		09/20/12 19:37	108-90-7	
Chloroethane	ND	ug/kg	15.3	1		09/20/12 19:37	75-00-3	
Chloroform	ND	ug/kg	7.7	1		09/20/12 19:37	67-66-3	
Chloromethane	ND	ug/kg	15.3	1		09/20/12 19:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.7	1		09/20/12 19:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.7	1		09/20/12 19:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.7	1		09/20/12 19:37	96-12-8	
Dibromochloromethane	ND	ug/kg	7.7	1		09/20/12 19:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.7	1		09/20/12 19:37	106-93-4	
Dibromomethane	ND	ug/kg	7.7	1		09/20/12 19:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.7	1		09/20/12 19:37	95-50-1	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-9(2-4) **Lab ID: 92131883019** Collected: 09/18/12 11:20 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	7.7	1		09/20/12 19:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.7	1		09/20/12 19:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	15.3	1		09/20/12 19:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.7	1		09/20/12 19:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.7	1		09/20/12 19:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.7	1		09/20/12 19:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.7	1		09/20/12 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.7	1		09/20/12 19:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.7	1		09/20/12 19:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.7	1		09/20/12 19:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.7	1		09/20/12 19:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.7	1		09/20/12 19:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.7	1		09/20/12 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.7	1		09/20/12 19:37	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.7	1		09/20/12 19:37	108-20-3	
Ethylbenzene	ND	ug/kg	7.7	1		09/20/12 19:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.7	1		09/20/12 19:37	87-68-3	
2-Hexanone	ND	ug/kg	76.7	1		09/20/12 19:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.7	1		09/20/12 19:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.7	1		09/20/12 19:37	99-87-6	
Methylene Chloride	ND	ug/kg	30.7	1		09/20/12 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	76.7	1		09/20/12 19:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.7	1		09/20/12 19:37	1634-04-4	
Naphthalene	ND	ug/kg	7.7	1		09/20/12 19:37	91-20-3	
n-Propylbenzene	ND	ug/kg	7.7	1		09/20/12 19:37	103-65-1	
Styrene	ND	ug/kg	7.7	1		09/20/12 19:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.7	1		09/20/12 19:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.7	1		09/20/12 19:37	79-34-5	
Tetrachloroethene	ND	ug/kg	7.7	1		09/20/12 19:37	127-18-4	
Toluene	ND	ug/kg	7.7	1		09/20/12 19:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.7	1		09/20/12 19:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.7	1		09/20/12 19:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.7	1		09/20/12 19:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.7	1		09/20/12 19:37	79-00-5	
Trichloroethene	ND	ug/kg	7.7	1		09/20/12 19:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.7	1		09/20/12 19:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.7	1		09/20/12 19:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.7	1		09/20/12 19:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.7	1		09/20/12 19:37	108-67-8	
Vinyl acetate	ND	ug/kg	76.7	1		09/20/12 19:37	108-05-4	
Vinyl chloride	ND	ug/kg	15.3	1		09/20/12 19:37	75-01-4	
Xylene (Total)	ND	ug/kg	15.3	1		09/20/12 19:37	1330-20-7	
m&p-Xylene	ND	ug/kg	15.3	1		09/20/12 19:37	179601-23-1	
o-Xylene	ND	ug/kg	7.7	1		09/20/12 19:37	95-47-6	
Surrogates								
Dibromofluoromethane (S)	142	%	70-130	1		09/20/12 19:37	1868-53-7	S3

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-9(2-4) **Lab ID: 92131883019** Collected: 09/18/12 11:20 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		09/20/12 19:37	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		09/20/12 19:37	460-00-4	
1,2-Dichloroethane-d4 (S)	128	%	70-132	1		09/20/12 19:37	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.2**	%	0.10	1		09/19/12 13:39		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-10(2-4) **Lab ID: 92131883020** Collected: 09/18/12 11:35 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.8	1	09/19/12 08:45	09/20/12 22:06	68334-30-5	
Surrogates								
n-Pentacosane (S)	71	%	41-119	1	09/19/12 08:45	09/20/12 22:06	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.5	1	09/19/12 14:00	09/19/12 22:22	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-167	1	09/19/12 14:00	09/19/12 22:22	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.2**	mg/kg	0.62	1	09/19/12 03:50	09/19/12 21:11	7440-38-2	
Barium	**12.4**	mg/kg	0.62	1	09/19/12 03:50	09/19/12 21:11	7440-39-3	
Cadmium	**2.7**	mg/kg	0.12	1	09/19/12 03:50	09/19/12 21:11	7440-43-9	
Chromium	**35.4**	mg/kg	0.62	1	09/19/12 03:50	09/19/12 21:11	7440-47-3	
Lead	**7.2**	mg/kg	0.62	1	09/19/12 03:50	09/19/12 21:11	7439-92-1	
Selenium	**6.1**	mg/kg	1.2	1	09/19/12 03:50	09/19/12 21:11	7782-49-2	
Silver	ND	mg/kg	0.62	1	09/19/12 03:50	09/19/12 21:11	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.36**	mg/kg	0.024	5	09/25/12 11:25	09/25/12 15:37	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	124	1		09/20/12 19:55	67-64-1	
Benzene	ND	ug/kg	6.2	1		09/20/12 19:55	71-43-2	
Bromobenzene	ND	ug/kg	6.2	1		09/20/12 19:55	108-86-1	
Bromochloromethane	ND	ug/kg	6.2	1		09/20/12 19:55	74-97-5	
Bromodichloromethane	ND	ug/kg	6.2	1		09/20/12 19:55	75-27-4	
Bromoform	ND	ug/kg	6.2	1		09/20/12 19:55	75-25-2	
Bromomethane	ND	ug/kg	12.4	1		09/20/12 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	124	1		09/20/12 19:55	78-93-3	
n-Butylbenzene	ND	ug/kg	6.2	1		09/20/12 19:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.2	1		09/20/12 19:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.2	1		09/20/12 19:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.2	1		09/20/12 19:55	56-23-5	
Chlorobenzene	ND	ug/kg	6.2	1		09/20/12 19:55	108-90-7	
Chloroethane	ND	ug/kg	12.4	1		09/20/12 19:55	75-00-3	
Chloroform	ND	ug/kg	6.2	1		09/20/12 19:55	67-66-3	
Chloromethane	ND	ug/kg	12.4	1		09/20/12 19:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.2	1		09/20/12 19:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	1		09/20/12 19:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.2	1		09/20/12 19:55	96-12-8	
Dibromochloromethane	ND	ug/kg	6.2	1		09/20/12 19:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.2	1		09/20/12 19:55	106-93-4	
Dibromomethane	ND	ug/kg	6.2	1		09/20/12 19:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.2	1		09/20/12 19:55	95-50-1	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-10(2-4) **Lab ID: 92131883020** Collected: 09/18/12 11:35 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	6.2	1		09/20/12 19:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.2	1		09/20/12 19:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	12.4	1		09/20/12 19:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.2	1		09/20/12 19:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.2	1		09/20/12 19:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.2	1		09/20/12 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1		09/20/12 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1		09/20/12 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.2	1		09/20/12 19:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.2	1		09/20/12 19:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.2	1		09/20/12 19:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.2	1		09/20/12 19:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.2	1		09/20/12 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1		09/20/12 19:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.2	1		09/20/12 19:55	108-20-3	
Ethylbenzene	ND	ug/kg	6.2	1		09/20/12 19:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.2	1		09/20/12 19:55	87-68-3	
2-Hexanone	ND	ug/kg	62.2	1		09/20/12 19:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1		09/20/12 19:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.2	1		09/20/12 19:55	99-87-6	
Methylene Chloride	ND	ug/kg	24.9	1		09/20/12 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	62.2	1		09/20/12 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.2	1		09/20/12 19:55	1634-04-4	
Naphthalene	ND	ug/kg	6.2	1		09/20/12 19:55	91-20-3	
n-Propylbenzene	ND	ug/kg	6.2	1		09/20/12 19:55	103-65-1	
Styrene	ND	ug/kg	6.2	1		09/20/12 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1		09/20/12 19:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1		09/20/12 19:55	79-34-5	
Tetrachloroethene	ND	ug/kg	6.2	1		09/20/12 19:55	127-18-4	
Toluene	ND	ug/kg	6.2	1		09/20/12 19:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	1		09/20/12 19:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	1		09/20/12 19:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1		09/20/12 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.2	1		09/20/12 19:55	79-00-5	
Trichloroethene	ND	ug/kg	6.2	1		09/20/12 19:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.2	1		09/20/12 19:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.2	1		09/20/12 19:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1		09/20/12 19:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1		09/20/12 19:55	108-67-8	
Vinyl acetate	ND	ug/kg	62.2	1		09/20/12 19:55	108-05-4	
Vinyl chloride	ND	ug/kg	12.4	1		09/20/12 19:55	75-01-4	
Xylene (Total)	ND	ug/kg	12.4	1		09/20/12 19:55	1330-20-7	
m&p-Xylene	ND	ug/kg	12.4	1		09/20/12 19:55	179601-23-1	
o-Xylene	ND	ug/kg	6.2	1		09/20/12 19:55	95-47-6	
Surrogates								
Dibromofluoromethane (S)	97	%	70-130	1		09/20/12 19:55	1868-53-7	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-10(2-4) **Lab ID: 92131883020** Collected: 09/18/12 11:35 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		09/20/12 19:55	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/20/12 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-132	1		09/20/12 19:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.9**	%	0.10	1		09/19/12 13:39		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-11(2-4) **Lab ID: 92131883021** Collected: 09/18/12 11:45 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**21.4**	mg/kg	6.1	1	09/19/12 08:45	09/20/12 22:06	68334-30-5	
Surrogates								
n-Pentacosane (S)	76	%	41-119	1	09/19/12 08:45	09/20/12 22:06	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	7.5	1	09/19/12 14:00	09/19/12 22:45	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-167	1	09/19/12 14:00	09/19/12 22:45	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**0.97**	mg/kg	0.60	1	09/19/12 03:50	09/19/12 21:14	7440-38-2	
Barium	**14.9**	mg/kg	0.60	1	09/19/12 03:50	09/19/12 21:14	7440-39-3	
Cadmium	**0.91**	mg/kg	0.12	1	09/19/12 03:50	09/19/12 21:14	7440-43-9	
Chromium	**12.5**	mg/kg	0.60	1	09/19/12 03:50	09/19/12 21:14	7440-47-3	
Lead	**4.5**	mg/kg	0.60	1	09/19/12 03:50	09/19/12 21:14	7439-92-1	
Selenium	**3.9**	mg/kg	1.2	1	09/19/12 03:50	09/19/12 21:14	7782-49-2	
Silver	ND	mg/kg	0.60	1	09/19/12 03:50	09/19/12 21:14	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.24**	mg/kg	0.023	5	09/25/12 11:25	09/25/12 15:51	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	133	1		09/20/12 20:14	67-64-1	
Benzene	ND	ug/kg	6.6	1		09/20/12 20:14	71-43-2	
Bromobenzene	ND	ug/kg	6.6	1		09/20/12 20:14	108-86-1	
Bromochloromethane	ND	ug/kg	6.6	1		09/20/12 20:14	74-97-5	
Bromodichloromethane	ND	ug/kg	6.6	1		09/20/12 20:14	75-27-4	
Bromoform	ND	ug/kg	6.6	1		09/20/12 20:14	75-25-2	
Bromomethane	ND	ug/kg	13.3	1		09/20/12 20:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	133	1		09/20/12 20:14	78-93-3	
n-Butylbenzene	ND	ug/kg	6.6	1		09/20/12 20:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.6	1		09/20/12 20:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.6	1		09/20/12 20:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.6	1		09/20/12 20:14	56-23-5	
Chlorobenzene	ND	ug/kg	6.6	1		09/20/12 20:14	108-90-7	
Chloroethane	ND	ug/kg	13.3	1		09/20/12 20:14	75-00-3	
Chloroform	ND	ug/kg	6.6	1		09/20/12 20:14	67-66-3	
Chloromethane	ND	ug/kg	13.3	1		09/20/12 20:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.6	1		09/20/12 20:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.6	1		09/20/12 20:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.6	1		09/20/12 20:14	96-12-8	
Dibromochloromethane	ND	ug/kg	6.6	1		09/20/12 20:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.6	1		09/20/12 20:14	106-93-4	
Dibromomethane	ND	ug/kg	6.6	1		09/20/12 20:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.6	1		09/20/12 20:14	95-50-1	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-11(2-4) **Lab ID: 92131883021** Collected: 09/18/12 11:45 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	6.6	1		09/20/12 20:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.6	1		09/20/12 20:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	13.3	1		09/20/12 20:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.6	1		09/20/12 20:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.6	1		09/20/12 20:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.6	1		09/20/12 20:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.6	1		09/20/12 20:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.6	1		09/20/12 20:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.6	1		09/20/12 20:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.6	1		09/20/12 20:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.6	1		09/20/12 20:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.6	1		09/20/12 20:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.6	1		09/20/12 20:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.6	1		09/20/12 20:14	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.6	1		09/20/12 20:14	108-20-3	
Ethylbenzene	ND	ug/kg	6.6	1		09/20/12 20:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.6	1		09/20/12 20:14	87-68-3	
2-Hexanone	ND	ug/kg	66.4	1		09/20/12 20:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.6	1		09/20/12 20:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.6	1		09/20/12 20:14	99-87-6	
Methylene Chloride	ND	ug/kg	26.6	1		09/20/12 20:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	66.4	1		09/20/12 20:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.6	1		09/20/12 20:14	1634-04-4	
Naphthalene	ND	ug/kg	6.6	1		09/20/12 20:14	91-20-3	
n-Propylbenzene	ND	ug/kg	6.6	1		09/20/12 20:14	103-65-1	
Styrene	ND	ug/kg	6.6	1		09/20/12 20:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.6	1		09/20/12 20:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.6	1		09/20/12 20:14	79-34-5	
Tetrachloroethene	ND	ug/kg	6.6	1		09/20/12 20:14	127-18-4	
Toluene	ND	ug/kg	6.6	1		09/20/12 20:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.6	1		09/20/12 20:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.6	1		09/20/12 20:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.6	1		09/20/12 20:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.6	1		09/20/12 20:14	79-00-5	
Trichloroethene	ND	ug/kg	6.6	1		09/20/12 20:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.6	1		09/20/12 20:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.6	1		09/20/12 20:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.6	1		09/20/12 20:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.6	1		09/20/12 20:14	108-67-8	
Vinyl acetate	ND	ug/kg	66.4	1		09/20/12 20:14	108-05-4	
Vinyl chloride	ND	ug/kg	13.3	1		09/20/12 20:14	75-01-4	
Xylene (Total)	ND	ug/kg	13.3	1		09/20/12 20:14	1330-20-7	
m&p-Xylene	ND	ug/kg	13.3	1		09/20/12 20:14	179601-23-1	
o-Xylene	ND	ug/kg	6.6	1		09/20/12 20:14	95-47-6	
Surrogates								
Dibromofluoromethane (S)	150	%	70-130	1		09/20/12 20:14	1868-53-7	S3

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-11(2-4) **Lab ID: 92131883021** Collected: 09/18/12 11:45 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		09/20/12 20:14	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		09/20/12 20:14	460-00-4	
1,2-Dichloroethane-d4 (S)	136	%	70-132	1		09/20/12 20:14	17060-07-0	S3
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.7**	%	0.10	1		09/19/12 13:39		

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205 East Meadow Road - Suite A
Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-12(2-4) **Lab ID: 92131883022** Collected: 09/18/12 13:40 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	**604**	mg/kg	11.8	2	09/19/12 08:45	09/21/12 11:39	68334-30-5	
Surrogates								
n-Pentacosane (S)	71	%	41-119	2	09/19/12 08:45	09/21/12 11:39	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	**45.5**	mg/kg	5.1	1	09/19/12 14:00	09/19/12 23:08	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	159	%	70-167	1	09/19/12 14:00	09/19/12 23:08	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.1**	mg/kg	0.52	1	09/19/12 03:50	09/19/12 21:17	7440-38-2	
Barium	**20.0**	mg/kg	0.52	1	09/19/12 03:50	09/19/12 21:17	7440-39-3	
Cadmium	**0.35**	mg/kg	0.10	1	09/19/12 03:50	09/19/12 21:17	7440-43-9	
Chromium	**12.7**	mg/kg	0.52	1	09/19/12 03:50	09/19/12 21:17	7440-47-3	
Lead	**4.6**	mg/kg	0.52	1	09/19/12 03:50	09/19/12 21:17	7439-92-1	
Selenium	**2.5**	mg/kg	1.0	1	09/19/12 03:50	09/19/12 21:17	7782-49-2	
Silver	ND	mg/kg	0.52	1	09/19/12 03:50	09/19/12 21:17	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.027**	mg/kg	0.0042	1	09/25/12 11:25	09/25/12 15:46	7439-97-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	8960	100		09/21/12 13:28	67-64-1	
Benzene	ND	ug/kg	448	100		09/21/12 13:28	71-43-2	
Bromobenzene	ND	ug/kg	448	100		09/21/12 13:28	108-86-1	
Bromochloromethane	ND	ug/kg	448	100		09/21/12 13:28	74-97-5	
Bromodichloromethane	ND	ug/kg	448	100		09/21/12 13:28	75-27-4	
Bromoform	ND	ug/kg	448	100		09/21/12 13:28	75-25-2	
Bromomethane	ND	ug/kg	896	100		09/21/12 13:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8960	100		09/21/12 13:28	78-93-3	
n-Butylbenzene	ND	ug/kg	448	100		09/21/12 13:28	104-51-8	
sec-Butylbenzene	ND	ug/kg	448	100		09/21/12 13:28	135-98-8	
tert-Butylbenzene	ND	ug/kg	448	100		09/21/12 13:28	98-06-6	
Carbon tetrachloride	ND	ug/kg	448	100		09/21/12 13:28	56-23-5	
Chlorobenzene	ND	ug/kg	448	100		09/21/12 13:28	108-90-7	
Chloroethane	ND	ug/kg	896	100		09/21/12 13:28	75-00-3	
Chloroform	ND	ug/kg	448	100		09/21/12 13:28	67-66-3	
Chloromethane	ND	ug/kg	896	100		09/21/12 13:28	74-87-3	
2-Chlorotoluene	ND	ug/kg	448	100		09/21/12 13:28	95-49-8	
4-Chlorotoluene	ND	ug/kg	448	100		09/21/12 13:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	448	100		09/21/12 13:28	96-12-8	
Dibromochloromethane	ND	ug/kg	448	100		09/21/12 13:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	448	100		09/21/12 13:28	106-93-4	
Dibromomethane	ND	ug/kg	448	100		09/21/12 13:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	448	100		09/21/12 13:28	95-50-1	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-12(2-4) **Lab ID: 92131883022** Collected: 09/18/12 13:40 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	448	100		09/21/12 13:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	448	100		09/21/12 13:28	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	896	100		09/21/12 13:28	75-71-8	D3
1,1-Dichloroethane	ND	ug/kg	448	100		09/21/12 13:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	448	100		09/21/12 13:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	448	100		09/21/12 13:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	448	100		09/21/12 13:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	448	100		09/21/12 13:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	448	100		09/21/12 13:28	78-87-5	
1,3-Dichloropropane	ND	ug/kg	448	100		09/21/12 13:28	142-28-9	
2,2-Dichloropropane	ND	ug/kg	448	100		09/21/12 13:28	594-20-7	
1,1-Dichloropropene	ND	ug/kg	448	100		09/21/12 13:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	448	100		09/21/12 13:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	448	100		09/21/12 13:28	10061-02-6	
Diisopropyl ether	ND	ug/kg	448	100		09/21/12 13:28	108-20-3	
Ethylbenzene	**474**	ug/kg	448	100		09/21/12 13:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	448	100		09/21/12 13:28	87-68-3	
2-Hexanone	ND	ug/kg	4480	100		09/21/12 13:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	448	100		09/21/12 13:28	98-82-8	
p-Isopropyltoluene	ND	ug/kg	448	100		09/21/12 13:28	99-87-6	
Methylene Chloride	ND	ug/kg	1790	100		09/21/12 13:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	4480	100		09/21/12 13:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	448	100		09/21/12 13:28	1634-04-4	
Naphthalene	**1460**	ug/kg	448	100		09/21/12 13:28	91-20-3	
n-Propylbenzene	ND	ug/kg	448	100		09/21/12 13:28	103-65-1	
Styrene	ND	ug/kg	448	100		09/21/12 13:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	448	100		09/21/12 13:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	448	100		09/21/12 13:28	79-34-5	
Tetrachloroethene	ND	ug/kg	448	100		09/21/12 13:28	127-18-4	
Toluene	ND	ug/kg	448	100		09/21/12 13:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	448	100		09/21/12 13:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	448	100		09/21/12 13:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	448	100		09/21/12 13:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	448	100		09/21/12 13:28	79-00-5	
Trichloroethene	ND	ug/kg	448	100		09/21/12 13:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	448	100		09/21/12 13:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	448	100		09/21/12 13:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	448	100		09/21/12 13:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	448	100		09/21/12 13:28	108-67-8	
Vinyl acetate	ND	ug/kg	4480	100		09/21/12 13:28	108-05-4	
Vinyl chloride	ND	ug/kg	896	100		09/21/12 13:28	75-01-4	
Xylene (Total)	ND	ug/kg	896	100		09/21/12 13:28	1330-20-7	
m&p-Xylene	ND	ug/kg	896	100		09/21/12 13:28	179601-23-1	
o-Xylene	ND	ug/kg	448	100		09/21/12 13:28	95-47-6	
Surrogates								
Dibromofluoromethane (S)	101	%	70-130	100		09/21/12 13:28	1868-53-7	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-12(2-4) **Lab ID: 92131883022** Collected: 09/18/12 13:40 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	102	%	70-130	100		09/21/12 13:28	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	100		09/21/12 13:28	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-132	100		09/21/12 13:28	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.6**	%	0.10	1		09/21/12 13:22		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-13(2-4) **Lab ID: 92131883023** Collected: 09/18/12 14:10 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Components	ND	mg/kg	6.0	1	09/19/12 08:45	09/20/12 22:36	68334-30-5	
Surrogates								
n-Pentacosane (S)	78	%	41-119	1	09/19/12 08:45	09/20/12 22:36	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B							
Gasoline Range Organics	ND	mg/kg	6.3	1	09/19/12 14:00	09/19/12 23:31	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-167	1	09/19/12 14:00	09/19/12 23:31	460-00-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**0.74**	mg/kg	0.51	1	09/19/12 03:50	09/19/12 21:20	7440-38-2	
Barium	**48.4**	mg/kg	0.51	1	09/19/12 03:50	09/19/12 21:20	7440-39-3	
Cadmium	**0.11**	mg/kg	0.10	1	09/19/12 03:50	09/19/12 21:20	7440-43-9	
Chromium	**3.2**	mg/kg	0.51	1	09/19/12 03:50	09/19/12 21:20	7440-47-3	
Lead	**4.6**	mg/kg	0.51	1	09/19/12 03:50	09/19/12 21:20	7439-92-1	
Selenium	**1.3**	mg/kg	1.0	1	09/19/12 03:50	09/19/12 21:20	7782-49-2	
Silver	ND	mg/kg	0.51	1	09/19/12 03:50	09/19/12 21:20	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0062**	mg/kg	0.0042	1	09/25/12 10:25	09/25/12 15:59	7439-97-6	M1
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	103	1		09/21/12 13:47	67-64-1	
Benzene	ND	ug/kg	5.2	1		09/21/12 13:47	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		09/21/12 13:47	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		09/21/12 13:47	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		09/21/12 13:47	75-27-4	
Bromoform	ND	ug/kg	5.2	1		09/21/12 13:47	75-25-2	
Bromomethane	ND	ug/kg	10.3	1		09/21/12 13:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	103	1		09/21/12 13:47	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		09/21/12 13:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		09/21/12 13:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		09/21/12 13:47	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.2	1		09/21/12 13:47	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		09/21/12 13:47	108-90-7	
Chloroethane	ND	ug/kg	10.3	1		09/21/12 13:47	75-00-3	
Chloroform	ND	ug/kg	5.2	1		09/21/12 13:47	67-66-3	
Chloromethane	ND	ug/kg	10.3	1		09/21/12 13:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		09/21/12 13:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		09/21/12 13:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		09/21/12 13:47	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		09/21/12 13:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		09/21/12 13:47	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		09/21/12 13:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		09/21/12 13:47	95-50-1	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-13(2-4) **Lab ID: 92131883023** Collected: 09/18/12 14:10 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		09/21/12 13:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		09/21/12 13:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.3	1		09/21/12 13:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		09/21/12 13:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		09/21/12 13:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		09/21/12 13:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		09/21/12 13:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		09/21/12 13:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		09/21/12 13:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		09/21/12 13:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		09/21/12 13:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		09/21/12 13:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		09/21/12 13:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		09/21/12 13:47	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		09/21/12 13:47	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1		09/21/12 13:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		09/21/12 13:47	87-68-3	
2-Hexanone	ND	ug/kg	51.7	1		09/21/12 13:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		09/21/12 13:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		09/21/12 13:47	99-87-6	
Methylene Chloride	ND	ug/kg	20.7	1		09/21/12 13:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.7	1		09/21/12 13:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		09/21/12 13:47	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		09/21/12 13:47	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		09/21/12 13:47	103-65-1	
Styrene	ND	ug/kg	5.2	1		09/21/12 13:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		09/21/12 13:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		09/21/12 13:47	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		09/21/12 13:47	127-18-4	
Toluene	ND	ug/kg	5.2	1		09/21/12 13:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		09/21/12 13:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		09/21/12 13:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		09/21/12 13:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		09/21/12 13:47	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		09/21/12 13:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		09/21/12 13:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		09/21/12 13:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		09/21/12 13:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		09/21/12 13:47	108-67-8	
Vinyl acetate	ND	ug/kg	51.7	1		09/21/12 13:47	108-05-4	
Vinyl chloride	ND	ug/kg	10.3	1		09/21/12 13:47	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		09/21/12 13:47	1330-20-7	
m&p-Xylene	ND	ug/kg	10.3	1		09/21/12 13:47	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		09/21/12 13:47	95-47-6	
Surrogates								
Dibromofluoromethane (S)	83	%	70-130	1		09/21/12 13:47	1868-53-7	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Sample: 5H-13(2-4) **Lab ID: 92131883023** Collected: 09/18/12 14:10 Received: 09/18/12 16:52 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	104	%	70-130	1		09/21/12 13:47	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130	1		09/21/12 13:47	460-00-4	
1,2-Dichloroethane-d4 (S)	72	%	70-132	1		09/21/12 13:47	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.9**	%	0.10	1		09/21/12 13:22		

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205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: GCV/6273 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92131883001, 92131883002, 92131883003, 92131883004, 92131883005, 92131883006, 92131883007, 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883018

METHOD BLANK: 835900 Matrix: Solid
Associated Lab Samples: 92131883001, 92131883002, 92131883003, 92131883004, 92131883005, 92131883006, 92131883007, 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.6	09/19/12 10:11	
4-Bromofluorobenzene (S)	%	93	70-167	09/19/12 10:11	

LABORATORY CONTROL SAMPLE: 835901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	23.4	24.6	105	70-165	
4-Bromofluorobenzene (S)	%			96	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 835902 835903

Parameter	Units	92131838001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	22.3	22.3	25.1	25.5	109	111	47-187	2	
4-Bromofluorobenzene (S)	%						95	89	70-167		

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: GCV/6275 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92131883019, 92131883020, 92131883021, 92131883022, 92131883023

METHOD BLANK: 836408 Matrix: Solid
Associated Lab Samples: 92131883019, 92131883020, 92131883021, 92131883022, 92131883023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.9	09/19/12 20:51	
4-Bromofluorobenzene (S)	%	86	70-167	09/19/12 20:51	

LABORATORY CONTROL SAMPLE: 836409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	24.7	24.6	100	70-165	
4-Bromofluorobenzene (S)	%			89	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 836410 836411

Parameter	Units	92131883019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	35.1	35.1	35.3	35.9	98	100	47-187	2	
4-Bromofluorobenzene (S)	%						87	90	70-167		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: MERP/4524 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92131883008, 92131883009, 92131883010, 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883018, 92131883019, 92131883020, 92131883021, 92131883022

METHOD BLANK: 837162 Matrix: Solid
Associated Lab Samples: 92131883008, 92131883009, 92131883010, 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883018, 92131883019, 92131883020, 92131883021, 92131883022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	09/25/12 14:17	

LABORATORY CONTROL SAMPLE: 837163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.056	84	80-120	

MATRIX SPIKE SAMPLE: 837164

Parameter	Units	92131565001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.12	.069	0.17	77	75-125	

SAMPLE DUPLICATE: 837165

Parameter	Units	92131565002 Result	Dup Result	RPD	Qualifiers
Mercury	mg/kg	0.048	0.050	5	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: MERP/4526
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 92131883023

METHOD BLANK: 837184 Matrix: Solid
Associated Lab Samples: 92131883023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	09/25/12 15:54	

LABORATORY CONTROL SAMPLE: 837185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.066	98	80-120	

MATRIX SPIKE SAMPLE: 837186

Parameter	Units	92131883023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.0062	.071	0.051	63	75-125	M1

SAMPLE DUPLICATE: 837187

Parameter	Units	92131970001 Result	Dup Result	RPD	Qualifiers
Mercury	mg/kg	ND	.0015J		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: MPRP/11526 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92131883008, 92131883009, 92131883010, 92131883011, 92131883012, 92131883013, 92131883014

METHOD BLANK: 835859 Matrix: Solid
Associated Lab Samples: 92131883008, 92131883009, 92131883010, 92131883011, 92131883012, 92131883013, 92131883014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	09/19/12 16:10	
Barium	mg/kg	ND	0.50	09/19/12 16:10	
Cadmium	mg/kg	ND	0.10	09/19/12 16:10	
Chromium	mg/kg	ND	0.50	09/19/12 16:10	
Lead	mg/kg	ND	0.50	09/19/12 16:10	
Selenium	mg/kg	ND	1.0	09/19/12 16:10	
Silver	mg/kg	ND	0.50	09/19/12 16:10	

LABORATORY CONTROL SAMPLE: 835860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.5	97	80-120	
Barium	mg/kg	50	48.6	97	80-120	
Cadmium	mg/kg	50	49.9	100	80-120	
Chromium	mg/kg	50	53.1	106	80-120	
Lead	mg/kg	50	49.8	100	80-120	
Selenium	mg/kg	50	50.0	100	80-120	
Silver	mg/kg	25	25.4	102	80-120	

MATRIX SPIKE SAMPLE: 835861

Parameter	Units	92130767004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	6.2	60.9	58.6	86	75-125	
Barium	mg/kg	25.1	60.9	83.7	96	75-125	
Cadmium	mg/kg	2.2	60.9	59.7	94	75-125	
Chromium	mg/kg	19.3	60.9	89.1	114	75-125	
Lead	mg/kg	21.7	60.9	74.6	87	75-125	
Selenium	mg/kg	5.1	60.9	51.2	76	75-125	
Silver	mg/kg	ND	30.5	31.1	102	75-125	

SAMPLE DUPLICATE: 835863

Parameter	Units	92130767005 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/kg	4.2	5.3	23	D6
Barium	mg/kg	30.2	32.4	7	
Cadmium	mg/kg	0.51	1.6	102	D6
Chromium	mg/kg	12.5	23.0	59	D6
Lead	mg/kg	16.9	22.0	26	D6

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

SAMPLE DUPLICATE: 835863

Parameter	Units	92130767005 Result	Dup Result	RPD	Qualifiers
Selenium	mg/kg	1.9	3.8	69	D6
Silver	mg/kg	ND	.077J		

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Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: MPRP/11527 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92131883015, 92131883016, 92131883017, 92131883018, 92131883019, 92131883020, 92131883021, 92131883022, 92131883023

METHOD BLANK: 835864 Matrix: Solid
Associated Lab Samples: 92131883015, 92131883016, 92131883017, 92131883018, 92131883019, 92131883020, 92131883021, 92131883022, 92131883023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	09/19/12 20:33	
Barium	mg/kg	ND	0.50	09/19/12 20:33	
Cadmium	mg/kg	ND	0.10	09/19/12 20:33	
Chromium	mg/kg	ND	0.50	09/19/12 20:33	
Lead	mg/kg	ND	0.50	09/19/12 20:33	
Selenium	mg/kg	ND	1.0	09/19/12 20:33	
Silver	mg/kg	ND	0.50	09/19/12 20:33	

LABORATORY CONTROL SAMPLE: 835865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	47.7	95	80-120	
Barium	mg/kg	50	47.4	95	80-120	
Cadmium	mg/kg	50	48.2	96	80-120	
Chromium	mg/kg	50	51.7	103	80-120	
Lead	mg/kg	50	48.1	96	80-120	
Selenium	mg/kg	50	48.9	98	80-120	
Silver	mg/kg	25	24.6	98	80-120	

MATRIX SPIKE SAMPLE: 835866

Parameter	Units	92131883015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	2.1	51.1	43.2	81	75-125	
Barium	mg/kg	26.8	51.1	77.5	99	75-125	
Cadmium	mg/kg	ND	51.1	45.6	89	75-125	
Chromium	mg/kg	6.5	51.1	58.0	101	75-125	
Lead	mg/kg	9.0	51.1	51.8	84	75-125	
Selenium	mg/kg	2.4	51.1	43.2	80	75-125	
Silver	mg/kg	ND	25.6	24.1	94	75-125	

SAMPLE DUPLICATE: 835868

Parameter	Units	92131883016 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/kg	1.9	1.2	51	D6
Barium	mg/kg	10.9	10.1	7	
Cadmium	mg/kg	ND	ND		
Chromium	mg/kg	7.7	6.7	14	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

SAMPLE DUPLICATE: 835868

Parameter	Units	92131883016 Result	Dup Result	RPD	Qualifiers
Lead	mg/kg	4.7	4.2	12	
Selenium	mg/kg	2.1	2.0	4	
Silver	mg/kg	ND	ND		

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Asheville, NC 28804
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: MSV/20444 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883019, 92131883020, 92131883021

METHOD BLANK: 837065 Matrix: Solid
Associated Lab Samples: 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883019, 92131883020, 92131883021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.4	09/20/12 12:52	
1,1,1-Trichloroethane	ug/kg	ND	5.4	09/20/12 12:52	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.4	09/20/12 12:52	
1,1,2-Trichloroethane	ug/kg	ND	5.4	09/20/12 12:52	
1,1-Dichloroethane	ug/kg	ND	5.4	09/20/12 12:52	
1,1-Dichloroethene	ug/kg	ND	5.4	09/20/12 12:52	
1,1-Dichloropropene	ug/kg	ND	5.4	09/20/12 12:52	
1,2,3-Trichlorobenzene	ug/kg	ND	5.4	09/20/12 12:52	
1,2,3-Trichloropropane	ug/kg	ND	5.4	09/20/12 12:52	
1,2,4-Trichlorobenzene	ug/kg	ND	5.4	09/20/12 12:52	
1,2,4-Trimethylbenzene	ug/kg	ND	5.4	09/20/12 12:52	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.4	09/20/12 12:52	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.4	09/20/12 12:52	
1,2-Dichlorobenzene	ug/kg	ND	5.4	09/20/12 12:52	
1,2-Dichloroethane	ug/kg	ND	5.4	09/20/12 12:52	
1,2-Dichloropropane	ug/kg	ND	5.4	09/20/12 12:52	
1,3,5-Trimethylbenzene	ug/kg	ND	5.4	09/20/12 12:52	
1,3-Dichlorobenzene	ug/kg	ND	5.4	09/20/12 12:52	
1,3-Dichloropropane	ug/kg	ND	5.4	09/20/12 12:52	
1,4-Dichlorobenzene	ug/kg	ND	5.4	09/20/12 12:52	
2,2-Dichloropropane	ug/kg	ND	5.4	09/20/12 12:52	
2-Butanone (MEK)	ug/kg	ND	107	09/20/12 12:52	
2-Chlorotoluene	ug/kg	ND	5.4	09/20/12 12:52	
2-Hexanone	ug/kg	ND	53.6	09/20/12 12:52	
4-Chlorotoluene	ug/kg	ND	5.4	09/20/12 12:52	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	53.6	09/20/12 12:52	
Acetone	ug/kg	ND	107	09/20/12 12:52	
Benzene	ug/kg	ND	5.4	09/20/12 12:52	
Bromobenzene	ug/kg	ND	5.4	09/20/12 12:52	
Bromochloromethane	ug/kg	ND	5.4	09/20/12 12:52	
Bromodichloromethane	ug/kg	ND	5.4	09/20/12 12:52	
Bromoform	ug/kg	ND	5.4	09/20/12 12:52	
Bromomethane	ug/kg	ND	10.7	09/20/12 12:52	
Carbon tetrachloride	ug/kg	ND	5.4	09/20/12 12:52	
Chlorobenzene	ug/kg	ND	5.4	09/20/12 12:52	
Chloroethane	ug/kg	ND	10.7	09/20/12 12:52	
Chloroform	ug/kg	ND	5.4	09/20/12 12:52	
Chloromethane	ug/kg	ND	10.7	09/20/12 12:52	
cis-1,2-Dichloroethene	ug/kg	ND	5.4	09/20/12 12:52	
cis-1,3-Dichloropropene	ug/kg	ND	5.4	09/20/12 12:52	
Dibromochloromethane	ug/kg	ND	5.4	09/20/12 12:52	

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

METHOD BLANK: 837065 Matrix: Solid

Associated Lab Samples: 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883019, 92131883020, 92131883021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.4	09/20/12 12:52	
Dichlorodifluoromethane	ug/kg	ND	10.7	09/20/12 12:52	
Diisopropyl ether	ug/kg	ND	5.4	09/20/12 12:52	
Ethylbenzene	ug/kg	ND	5.4	09/20/12 12:52	
Hexachloro-1,3-butadiene	ug/kg	ND	5.4	09/20/12 12:52	
Isopropylbenzene (Cumene)	ug/kg	ND	5.4	09/20/12 12:52	
m&p-Xylene	ug/kg	ND	10.7	09/20/12 12:52	
Methyl-tert-butyl ether	ug/kg	ND	5.4	09/20/12 12:52	
Methylene Chloride	ug/kg	ND	21.5	09/20/12 12:52	
n-Butylbenzene	ug/kg	ND	5.4	09/20/12 12:52	
n-Propylbenzene	ug/kg	ND	5.4	09/20/12 12:52	
Naphthalene	ug/kg	ND	5.4	09/20/12 12:52	
o-Xylene	ug/kg	ND	5.4	09/20/12 12:52	
p-Isopropyltoluene	ug/kg	ND	5.4	09/20/12 12:52	
sec-Butylbenzene	ug/kg	ND	5.4	09/20/12 12:52	
Styrene	ug/kg	ND	5.4	09/20/12 12:52	
tert-Butylbenzene	ug/kg	ND	5.4	09/20/12 12:52	
Tetrachloroethene	ug/kg	ND	5.4	09/20/12 12:52	
Toluene	ug/kg	ND	5.4	09/20/12 12:52	
trans-1,2-Dichloroethene	ug/kg	ND	5.4	09/20/12 12:52	
trans-1,3-Dichloropropene	ug/kg	ND	5.4	09/20/12 12:52	
Trichloroethene	ug/kg	ND	5.4	09/20/12 12:52	
Trichlorofluoromethane	ug/kg	ND	5.4	09/20/12 12:52	
Vinyl acetate	ug/kg	ND	53.6	09/20/12 12:52	
Vinyl chloride	ug/kg	ND	10.7	09/20/12 12:52	
Xylene (Total)	ug/kg	ND	10.7	09/20/12 12:52	
1,2-Dichloroethane-d4 (S)	%	99	70-132	09/20/12 12:52	
4-Bromofluorobenzene (S)	%	101	70-130	09/20/12 12:52	
Dibromofluoromethane (S)	%	103	70-130	09/20/12 12:52	
Toluene-d8 (S)	%	100	70-130	09/20/12 12:52	

LABORATORY CONTROL SAMPLE: 837066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	58.3	60.2	103	70-131	
1,1,1-Trichloroethane	ug/kg	58.3	63.9	110	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	58.3	63.1	108	70-130	
1,1,2-Trichloroethane	ug/kg	58.3	65.2	112	70-132	
1,1-Dichloroethane	ug/kg	58.3	62.4	107	70-143	
1,1-Dichloroethene	ug/kg	58.3	62.2	107	70-137	
1,1-Dichloropropene	ug/kg	58.3	57.7	99	70-135	
1,2,3-Trichlorobenzene	ug/kg	58.3	62.2	107	69-153	
1,2,3-Trichloropropane	ug/kg	58.3	64.7	111	70-130	
1,2,4-Trichlorobenzene	ug/kg	58.3	59.0	101	55-171	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

LABORATORY CONTROL SAMPLE: 837066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	58.3	60.9	104	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	58.3	70.2	120	68-141	
1,2-Dibromoethane (EDB)	ug/kg	58.3	63.7	109	70-130	
1,2-Dichlorobenzene	ug/kg	58.3	62.4	107	70-140	
1,2-Dichloroethane	ug/kg	58.3	61.6	106	70-137	
1,2-Dichloropropane	ug/kg	58.3	59.5	102	70-133	
1,3,5-Trimethylbenzene	ug/kg	58.3	60.7	104	70-143	
1,3-Dichlorobenzene	ug/kg	58.3	59.0	101	70-144	
1,3-Dichloropropane	ug/kg	58.3	61.5	105	70-132	
1,4-Dichlorobenzene	ug/kg	58.3	59.9	103	70-142	
2,2-Dichloropropane	ug/kg	58.3	64.0	110	68-152	
2-Butanone (MEK)	ug/kg	117	141	121	70-149	
2-Chlorotoluene	ug/kg	58.3	60.5	104	70-141	
2-Hexanone	ug/kg	117	139	119	70-149	
4-Chlorotoluene	ug/kg	58.3	60.4	104	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	117	140	120	70-153	
Acetone	ug/kg	117	133	114	70-157	
Benzene	ug/kg	58.3	59.4	102	70-130	
Bromobenzene	ug/kg	58.3	62.9	108	70-141	
Bromochloromethane	ug/kg	58.3	57.4	99	70-149	
Bromodichloromethane	ug/kg	58.3	60.0	103	70-130	
Bromoform	ug/kg	58.3	68.3	117	70-131	
Bromomethane	ug/kg	58.3	66.5	114	64-136	
Carbon tetrachloride	ug/kg	58.3	55.9	96	70-154	
Chlorobenzene	ug/kg	58.3	59.9	103	70-135	
Chloroethane	ug/kg	58.3	65.0	112	68-151	
Chloroform	ug/kg	58.3	58.6	101	70-130	
Chloromethane	ug/kg	58.3	51.6	89	70-132	
cis-1,2-Dichloroethene	ug/kg	58.3	63.2	108	70-140	
cis-1,3-Dichloropropene	ug/kg	58.3	61.9	106	70-137	
Dibromochloromethane	ug/kg	58.3	65.1	112	70-130	
Dibromomethane	ug/kg	58.3	57.3	98	70-136	
Dichlorodifluoromethane	ug/kg	58.3	54.2	93	36-148	
Diisopropyl ether	ug/kg	58.3	62.1	107	70-139	
Ethylbenzene	ug/kg	58.3	58.7	101	70-137	
Hexachloro-1,3-butadiene	ug/kg	58.3	62.3	107	70-145	
Isopropylbenzene (Cumene)	ug/kg	58.3	60.2	103	70-141	
m&p-Xylene	ug/kg	117	119	102	70-140	
Methyl-tert-butyl ether	ug/kg	58.3	70.4	121	45-150	
Methylene Chloride	ug/kg	58.3	64.9	111	70-133	
n-Butylbenzene	ug/kg	58.3	59.8	103	65-155	
n-Propylbenzene	ug/kg	58.3	60.2	103	70-148	
Naphthalene	ug/kg	58.3	64.4	111	70-148	
o-Xylene	ug/kg	58.3	59.8	103	70-141	
p-Isopropyltoluene	ug/kg	58.3	59.4	102	70-148	
sec-Butylbenzene	ug/kg	58.3	61.0	105	70-145	
Styrene	ug/kg	58.3	64.1	110	70-138	
tert-Butylbenzene	ug/kg	58.3	60.7	104	70-143	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

LABORATORY CONTROL SAMPLE: 837066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	58.3	61.3	105	70-140	
Toluene	ug/kg	58.3	59.1	101	70-130	
trans-1,2-Dichloroethene	ug/kg	58.3	62.6	107	70-136	
trans-1,3-Dichloropropene	ug/kg	58.3	65.8	113	70-138	
Trichloroethene	ug/kg	58.3	58.2	100	70-132	
Trichlorofluoromethane	ug/kg	58.3	55.7	96	69-134	
Vinyl acetate	ug/kg	117	124	106	24-161	
Vinyl chloride	ug/kg	58.3	55.2	95	55-140	
Xylene (Total)	ug/kg	175	179	102	70-141	
1,2-Dichloroethane-d4 (S)	%			100	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 838069

Parameter	Units	92131883013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	52.3	42.5	81	49-180	
Benzene	ug/kg	ND	52.3	56.1	107	50-166	
Chlorobenzene	ug/kg	ND	52.3	58.9	113	43-169	
Toluene	ug/kg	ND	52.3	56.4	108	52-163	
Trichloroethene	ug/kg	ND	52.3	59.2	113	49-167	
1,2-Dichloroethane-d4 (S)	%				64	70-132	S0
4-Bromofluorobenzene (S)	%				98	70-130	
Dibromofluoromethane (S)	%				73	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 838068

Parameter	Units	92131883012 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

SAMPLE DUPLICATE: 838068

Parameter	Units	92131883012 Result	Dup Result	RPD	Qualifiers
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	11.1J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

SAMPLE DUPLICATE: 838068

Parameter	Units	92131883012 Result	Dup Result	RPD	Qualifiers
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	94	88	1	
4-Bromofluorobenzene (S)	%	97	99	10	
Dibromofluoromethane (S)	%	97	92	3	
Toluene-d8 (S)	%	98	97	7	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: MSV/20464 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92131883018, 92131883022, 92131883023

METHOD BLANK: 838159 Matrix: Solid
Associated Lab Samples: 92131883018, 92131883022, 92131883023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.2	09/21/12 11:00	
1,1,1-Trichloroethane	ug/kg	ND	5.2	09/21/12 11:00	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.2	09/21/12 11:00	
1,1,2-Trichloroethane	ug/kg	ND	5.2	09/21/12 11:00	
1,1-Dichloroethane	ug/kg	ND	5.2	09/21/12 11:00	
1,1-Dichloroethene	ug/kg	ND	5.2	09/21/12 11:00	
1,1-Dichloropropene	ug/kg	ND	5.2	09/21/12 11:00	
1,2,3-Trichlorobenzene	ug/kg	ND	5.2	09/21/12 11:00	
1,2,3-Trichloropropane	ug/kg	ND	5.2	09/21/12 11:00	
1,2,4-Trichlorobenzene	ug/kg	ND	5.2	09/21/12 11:00	
1,2,4-Trimethylbenzene	ug/kg	ND	5.2	09/21/12 11:00	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.2	09/21/12 11:00	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.2	09/21/12 11:00	
1,2-Dichlorobenzene	ug/kg	ND	5.2	09/21/12 11:00	
1,2-Dichloroethane	ug/kg	ND	5.2	09/21/12 11:00	
1,2-Dichloropropane	ug/kg	ND	5.2	09/21/12 11:00	
1,3,5-Trimethylbenzene	ug/kg	ND	5.2	09/21/12 11:00	
1,3-Dichlorobenzene	ug/kg	ND	5.2	09/21/12 11:00	
1,3-Dichloropropane	ug/kg	ND	5.2	09/21/12 11:00	
1,4-Dichlorobenzene	ug/kg	ND	5.2	09/21/12 11:00	
2,2-Dichloropropane	ug/kg	ND	5.2	09/21/12 11:00	
2-Butanone (MEK)	ug/kg	ND	104	09/21/12 11:00	
2-Chlorotoluene	ug/kg	ND	5.2	09/21/12 11:00	
2-Hexanone	ug/kg	ND	51.9	09/21/12 11:00	
4-Chlorotoluene	ug/kg	ND	5.2	09/21/12 11:00	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	51.9	09/21/12 11:00	
Acetone	ug/kg	ND	104	09/21/12 11:00	
Benzene	ug/kg	ND	5.2	09/21/12 11:00	
Bromobenzene	ug/kg	ND	5.2	09/21/12 11:00	
Bromochloromethane	ug/kg	ND	5.2	09/21/12 11:00	
Bromodichloromethane	ug/kg	ND	5.2	09/21/12 11:00	
Bromoform	ug/kg	ND	5.2	09/21/12 11:00	
Bromomethane	ug/kg	ND	10.4	09/21/12 11:00	
Carbon tetrachloride	ug/kg	ND	5.2	09/21/12 11:00	
Chlorobenzene	ug/kg	ND	5.2	09/21/12 11:00	
Chloroethane	ug/kg	ND	10.4	09/21/12 11:00	
Chloroform	ug/kg	ND	5.2	09/21/12 11:00	
Chloromethane	ug/kg	ND	10.4	09/21/12 11:00	
cis-1,2-Dichloroethene	ug/kg	ND	5.2	09/21/12 11:00	
cis-1,3-Dichloropropene	ug/kg	ND	5.2	09/21/12 11:00	
Dibromochloromethane	ug/kg	ND	5.2	09/21/12 11:00	
Dibromomethane	ug/kg	ND	5.2	09/21/12 11:00	
Dichlorodifluoromethane	ug/kg	ND	10.4	09/21/12 11:00	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

METHOD BLANK: 838159 Matrix: Solid

Associated Lab Samples: 92131883018, 92131883022, 92131883023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.2	09/21/12 11:00	
Ethylbenzene	ug/kg	ND	5.2	09/21/12 11:00	
Hexachloro-1,3-butadiene	ug/kg	ND	5.2	09/21/12 11:00	
Isopropylbenzene (Cumene)	ug/kg	ND	5.2	09/21/12 11:00	
m&p-Xylene	ug/kg	ND	10.4	09/21/12 11:00	
Methyl-tert-butyl ether	ug/kg	ND	5.2	09/21/12 11:00	
Methylene Chloride	ug/kg	ND	20.7	09/21/12 11:00	
n-Butylbenzene	ug/kg	ND	5.2	09/21/12 11:00	
n-Propylbenzene	ug/kg	ND	5.2	09/21/12 11:00	
Naphthalene	ug/kg	ND	5.2	09/21/12 11:00	
o-Xylene	ug/kg	ND	5.2	09/21/12 11:00	
p-Isopropyltoluene	ug/kg	ND	5.2	09/21/12 11:00	
sec-Butylbenzene	ug/kg	ND	5.2	09/21/12 11:00	
Styrene	ug/kg	ND	5.2	09/21/12 11:00	
tert-Butylbenzene	ug/kg	ND	5.2	09/21/12 11:00	
Tetrachloroethene	ug/kg	ND	5.2	09/21/12 11:00	
Toluene	ug/kg	ND	5.2	09/21/12 11:00	
trans-1,2-Dichloroethene	ug/kg	ND	5.2	09/21/12 11:00	
trans-1,3-Dichloropropene	ug/kg	ND	5.2	09/21/12 11:00	
Trichloroethene	ug/kg	ND	5.2	09/21/12 11:00	
Trichlorofluoromethane	ug/kg	ND	5.2	09/21/12 11:00	
Vinyl acetate	ug/kg	ND	51.9	09/21/12 11:00	
Vinyl chloride	ug/kg	ND	10.4	09/21/12 11:00	
Xylene (Total)	ug/kg	ND	10.4	09/21/12 11:00	
1,2-Dichloroethane-d4 (S)	%	94	70-132	09/21/12 11:00	
4-Bromofluorobenzene (S)	%	100	70-130	09/21/12 11:00	
Dibromofluoromethane (S)	%	95	70-130	09/21/12 11:00	
Toluene-d8 (S)	%	98	70-130	09/21/12 11:00	

LABORATORY CONTROL SAMPLE: 838160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	54.9	56.2	102	70-131	
1,1,1-Trichloroethane	ug/kg	54.9	62.3	113	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	54.9	58.3	106	70-130	
1,1,2-Trichloroethane	ug/kg	54.9	59.7	109	70-132	
1,1-Dichloroethane	ug/kg	54.9	60.2	110	70-143	
1,1-Dichloroethene	ug/kg	54.9	58.5	106	70-137	
1,1-Dichloropropene	ug/kg	54.9	54.9	100	70-135	
1,2,3-Trichlorobenzene	ug/kg	54.9	62.5	114	69-153	
1,2,3-Trichloropropane	ug/kg	54.9	58.6	107	70-130	
1,2,4-Trichlorobenzene	ug/kg	54.9	63.3	115	55-171	
1,2,4-Trimethylbenzene	ug/kg	54.9	60.4	110	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	54.9	62.8	114	68-141	
1,2-Dibromoethane (EDB)	ug/kg	54.9	60.6	110	70-130	

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

LABORATORY CONTROL SAMPLE: 838160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	54.9	59.9	109	70-140	
1,2-Dichloroethane	ug/kg	54.9	58.8	107	70-137	
1,2-Dichloropropane	ug/kg	54.9	56.8	103	70-133	
1,3,5-Trimethylbenzene	ug/kg	54.9	60.0	109	70-143	
1,3-Dichlorobenzene	ug/kg	54.9	59.9	109	70-144	
1,3-Dichloropropane	ug/kg	54.9	57.3	104	70-132	
1,4-Dichlorobenzene	ug/kg	54.9	59.9	109	70-142	
2,2-Dichloropropane	ug/kg	54.9	63.7	116	68-152	
2-Butanone (MEK)	ug/kg	110	129	117	70-149	
2-Chlorotoluene	ug/kg	54.9	59.1	108	70-141	
2-Hexanone	ug/kg	110	123	112	70-149	
4-Chlorotoluene	ug/kg	54.9	61.9	113	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	110	125	114	70-153	
Acetone	ug/kg	110	128	117	70-157	
Benzene	ug/kg	54.9	58.5	106	70-130	
Bromobenzene	ug/kg	54.9	59.9	109	70-141	
Bromochloromethane	ug/kg	54.9	55.4	101	70-149	
Bromodichloromethane	ug/kg	54.9	56.1	102	70-130	
Bromoform	ug/kg	54.9	62.9	115	70-131	
Bromomethane	ug/kg	54.9	59.7	109	64-136	
Carbon tetrachloride	ug/kg	54.9	54.5	99	70-154	
Chlorobenzene	ug/kg	54.9	59.0	107	70-135	
Chloroethane	ug/kg	54.9	64.8	118	68-151	
Chloroform	ug/kg	54.9	56.8	103	70-130	
Chloromethane	ug/kg	54.9	54.4	99	70-132	
cis-1,2-Dichloroethene	ug/kg	54.9	60.4	110	70-140	
cis-1,3-Dichloropropene	ug/kg	54.9	58.4	106	70-137	
Dibromochloromethane	ug/kg	54.9	58.6	107	70-130	
Dibromomethane	ug/kg	54.9	54.7	100	70-136	
Dichlorodifluoromethane	ug/kg	54.9	66.6	121	36-148	
Diisopropyl ether	ug/kg	54.9	56.7	103	70-139	
Ethylbenzene	ug/kg	54.9	58.5	106	70-137	
Hexachloro-1,3-butadiene	ug/kg	54.9	63.8	116	70-145	
Isopropylbenzene (Cumene)	ug/kg	54.9	59.8	109	70-141	
m&p-Xylene	ug/kg	110	119	108	70-140	
Methyl-tert-butyl ether	ug/kg	54.9	64.8	118	45-150	
Methylene Chloride	ug/kg	54.9	61.3	112	70-133	
n-Butylbenzene	ug/kg	54.9	62.6	114	65-155	
n-Propylbenzene	ug/kg	54.9	60.6	110	70-148	
Naphthalene	ug/kg	54.9	62.3	113	70-148	
o-Xylene	ug/kg	54.9	57.2	104	70-141	
p-Isopropyltoluene	ug/kg	54.9	61.6	112	70-148	
sec-Butylbenzene	ug/kg	54.9	61.6	112	70-145	
Styrene	ug/kg	54.9	60.4	110	70-138	
tert-Butylbenzene	ug/kg	54.9	59.3	108	70-143	
Tetrachloroethene	ug/kg	54.9	62.5	114	70-140	
Toluene	ug/kg	54.9	58.1	106	70-130	
trans-1,2-Dichloroethene	ug/kg	54.9	61.3	112	70-136	

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

LABORATORY CONTROL SAMPLE: 838160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	54.9	60.7	110	70-138	
Trichloroethene	ug/kg	54.9	57.4	104	70-132	
Trichlorofluoromethane	ug/kg	54.9	53.9	98	69-134	
Vinyl acetate	ug/kg	110	172	157	24-161	
Vinyl chloride	ug/kg	54.9	55.6	101	55-140	
Xylene (Total)	ug/kg	165	176	107	70-141	
1,2-Dichloroethane-d4 (S)	%			97	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 839168

Parameter	Units	92132153019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	52.9	46.7	88	49-180	
Benzene	ug/kg	ND	52.9	45.9	87	50-166	
Chlorobenzene	ug/kg	ND	52.9	53.1	100	43-169	
Toluene	ug/kg	ND	52.9	49.7	94	52-163	
Trichloroethene	ug/kg	ND	52.9	52.0	98	49-167	
1,2-Dichloroethane-d4 (S)	%				104	70-132	
4-Bromofluorobenzene (S)	%				90	70-130	
Dibromofluoromethane (S)	%				120	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 839167

Parameter	Units	92131565003 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	1.9J		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		

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Eden, NC 27288
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Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

SAMPLE DUPLICATE: 839167

Parameter	Units	92131565003 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	385	145	90	R1
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

SAMPLE DUPLICATE: 839167

Parameter	Units	92131565003 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	90	89	47	
4-Bromofluorobenzene (S)	%	94	95	45	
Dibromofluoromethane (S)	%	93	96	42	
Toluene-d8 (S)	%	98	98	45	

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Asheville, NC 28804
(828)254-7176

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: OEXT/18962 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92131883001, 92131883002, 92131883003, 92131883004, 92131883005, 92131883006, 92131883007, 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883018, 92131883019, 92131883020, 92131883021, 92131883022, 92131883023

METHOD BLANK: 835937 Matrix: Solid
Associated Lab Samples: 92131883001, 92131883002, 92131883003, 92131883004, 92131883005, 92131883006, 92131883007, 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883018, 92131883019, 92131883020, 92131883021, 92131883022, 92131883023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	09/20/12 17:08	
n-Pentacosane (S)	%	61	41-119	09/20/12 17:08	

LABORATORY CONTROL SAMPLE: 835938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	36.5	55	49-113	
n-Pentacosane (S)	%			58	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 835939 835940

Parameter	Units	92131883006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	ND	80.9	80.9	35.2	40.7	42	49	10-146	14	
n-Pentacosane (S)	%						45	52	41-119		

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(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: PMST/4994
Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92131883001, 92131883002, 92131883003, 92131883004, 92131883005, 92131883006, 92131883007, 92131883011, 92131883012, 92131883013, 92131883014, 92131883015, 92131883016, 92131883017, 92131883018, 92131883019, 92131883020, 92131883021

SAMPLE DUPLICATE: 835927

Parameter	Units	92131813004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%		11.5		

SAMPLE DUPLICATE: 835928

Parameter	Units	92131883021 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.7	19.1	2	

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QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: PMST/4999
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92131883022, 92131883023

SAMPLE DUPLICATE: 837913

Parameter	Units	92131883022 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	15.6	14.7	5	

SAMPLE DUPLICATE: 837914

Parameter	Units	92132281010 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.5	18.2	4	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

QC Batch: PMST/5005
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92131883008, 92131883009, 92131883010

SAMPLE DUPLICATE: 839582

Parameter	Units	92131883008 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	0.58	0.52	12	

SAMPLE DUPLICATE: 839583

Parameter	Units	92132573004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	9.6	9.2	4	

QUALIFIERS

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92131883001	**4H-1(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883002	**4H-2(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883003	**4H-3(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883004	**4H-4(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883005	**4H-5(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883006	**4H-6(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883007	**4H-7(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883011	**5H-1(0-2)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883012	**5H-2(0-2)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883013	**5H-3(0-2)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883014	**5H-4(0-2)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883015	**5H-5(1-2)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883016	**5H-6(1-2)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883017	**5H-7(10-12)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883018	**5H-8(8-10)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883019	**5H-9(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883020	**5H-10(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883021	**5H-11(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883022	**5H-12(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883023	**5H-13(2-4)**	EPA 3546	OEXT/18962	EPA 8015 Modified	GCSV/12904
92131883001	**4H-1(2-4)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883002	**4H-2(2-4)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883003	**4H-3(2-4)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883004	**4H-4(2-4)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883005	**4H-5(2-4)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883006	**4H-6(2-4)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883007	**4H-7(2-4)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883011	**5H-1(0-2)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883012	**5H-2(0-2)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883013	**5H-3(0-2)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883014	**5H-4(0-2)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883015	**5H-5(1-2)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883016	**5H-6(1-2)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883017	**5H-7(10-12)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883018	**5H-8(8-10)**	EPA 5035A/5030B	GCV/6273	EPA 8015 Modified	GCV/6274
92131883019	**5H-9(2-4)**	EPA 5035A/5030B	GCV/6275	EPA 8015 Modified	GCV/6276
92131883020	**5H-10(2-4)**	EPA 5035A/5030B	GCV/6275	EPA 8015 Modified	GCV/6276
92131883021	**5H-11(2-4)**	EPA 5035A/5030B	GCV/6275	EPA 8015 Modified	GCV/6276
92131883022	**5H-12(2-4)**	EPA 5035A/5030B	GCV/6275	EPA 8015 Modified	GCV/6276
92131883023	**5H-13(2-4)**	EPA 5035A/5030B	GCV/6275	EPA 8015 Modified	GCV/6276
92131883008	**SAND-1**	EPA 3050	MPRP/11526	EPA 6010	ICP/10557
92131883009	**SAND-2**	EPA 3050	MPRP/11526	EPA 6010	ICP/10557
92131883010	**SAND-3**	EPA 3050	MPRP/11526	EPA 6010	ICP/10557
92131883011	**5H-1(0-2)**	EPA 3050	MPRP/11526	EPA 6010	ICP/10557
92131883012	**5H-2(0-2)**	EPA 3050	MPRP/11526	EPA 6010	ICP/10557
92131883013	**5H-3(0-2)**	EPA 3050	MPRP/11526	EPA 6010	ICP/10557
92131883014	**5H-4(0-2)**	EPA 3050	MPRP/11526	EPA 6010	ICP/10557

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92131883015	**5H-5(1-2)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883016	**5H-6(1-2)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883017	**5H-7(10-12)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883018	**5H-8(8-10)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883019	**5H-9(2-4)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883020	**5H-10(2-4)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883021	**5H-11(2-4)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883022	**5H-12(2-4)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883023	**5H-13(2-4)**	EPA 3050	MPRP/11527	EPA 6010	ICP/10558
92131883008	**SAND-1**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883009	**SAND-2**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883010	**SAND-3**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883011	**5H-1(0-2)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883012	**5H-2(0-2)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883013	**5H-3(0-2)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883014	**5H-4(0-2)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883015	**5H-5(1-2)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883016	**5H-6(1-2)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883017	**5H-7(10-12)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883018	**5H-8(8-10)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883019	**5H-9(2-4)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883020	**5H-10(2-4)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883021	**5H-11(2-4)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883022	**5H-12(2-4)**	EPA 7471	MERP/4524	EPA 7471	MERC/4437
92131883023	**5H-13(2-4)**	EPA 7471	MERP/4526	EPA 7471	MERC/4438
92131883011	**5H-1(0-2)**	EPA 8260	MSV/20444		
92131883012	**5H-2(0-2)**	EPA 8260	MSV/20444		
92131883013	**5H-3(0-2)**	EPA 8260	MSV/20444		
92131883014	**5H-4(0-2)**	EPA 8260	MSV/20444		
92131883015	**5H-5(1-2)**	EPA 8260	MSV/20444		
92131883016	**5H-6(1-2)**	EPA 8260	MSV/20444		
92131883017	**5H-7(10-12)**	EPA 8260	MSV/20444		
92131883018	**5H-8(8-10)**	EPA 8260	MSV/20464		
92131883019	**5H-9(2-4)**	EPA 8260	MSV/20444		
92131883020	**5H-10(2-4)**	EPA 8260	MSV/20444		
92131883021	**5H-11(2-4)**	EPA 8260	MSV/20444		
92131883022	**5H-12(2-4)**	EPA 8260	MSV/20464		
92131883023	**5H-13(2-4)**	EPA 8260	MSV/20464		
92131883001	**4H-1(2-4)**	ASTM D2974-87	PMST/4994		
92131883002	**4H-2(2-4)**	ASTM D2974-87	PMST/4994		
92131883003	**4H-3(2-4)**	ASTM D2974-87	PMST/4994		
92131883004	**4H-4(2-4)**	ASTM D2974-87	PMST/4994		
92131883005	**4H-5(2-4)**	ASTM D2974-87	PMST/4994		
92131883006	**4H-6(2-4)**	ASTM D2974-87	PMST/4994		
92131883007	**4H-7(2-4)**	ASTM D2974-87	PMST/4994		

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205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

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2225 Riverside Dr.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DOT-MECKLENBURG WBS#50000.1
Pace Project No.: 92131883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92131883008	**SAND-1**	ASTM D2974-87	PMST/5005		
92131883009	**SAND-2**	ASTM D2974-87	PMST/5005		
92131883010	**SAND-3**	ASTM D2974-87	PMST/5005		
92131883011	**5H-1(0-2)**	ASTM D2974-87	PMST/4994		
92131883012	**5H-2(0-2)**	ASTM D2974-87	PMST/4994		
92131883013	**5H-3(0-2)**	ASTM D2974-87	PMST/4994		
92131883014	**5H-4(0-2)**	ASTM D2974-87	PMST/4994		
92131883015	**5H-5(1-2)**	ASTM D2974-87	PMST/4994		
92131883016	**5H-6(1-2)**	ASTM D2974-87	PMST/4994		
92131883017	**5H-7(10-12)**	ASTM D2974-87	PMST/4994		
92131883018	**5H-8(8-10)**	ASTM D2974-87	PMST/4994		
92131883019	**5H-9(2-4)**	ASTM D2974-87	PMST/4994		
92131883020	**5H-10(2-4)**	ASTM D2974-87	PMST/4994		
92131883021	**5H-11(2-4)**	ASTM D2974-87	PMST/4994		
92131883022	**5H-12(2-4)**	ASTM D2974-87	PMST/4999		
92131883023	**5H-13(2-4)**	ASTM D2974-87	PMST/4999		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1653469

Section A Required Client Information:

Company: Hart + Hickman
Address: 2923 S. Tryon St. #100
Charlotte NC 28203
Email To:
Phone: 704-586-0007 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: David Graham
Copy To:
Purchase Order No.:
Project Name: DOT - Mecklenburg County
Project Number: ROW-407

Section C Invoice Information:

Attention: NC DOT
Company Name: WBS 50000.1.STR13TD
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	RCRA Metals	TPH (C-R0, DRO)	VOCs (8260)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	4H-1 (2-4)	SL	G			09/7/12	1100		4	2						2				X				001
2	4H-2 (2-4)					09/7/12	1125													X				002
3	4H-3 (2-4)						1155													X				003
4	4H-4 (2-4)						1410													X				004
5	4H-5 (2-4)						1235													X				005
6	4H-6 (2-4)						1240													X				006
7	4H-7 (2-4)						1350										1			X				007
8	5H-1 (0-2)						1455		9	4					2	2				X	X	X		011
9	5H-2 (0-2)		↓				1530		9	4					2	3				X	X	X		012
10	SAND-1		C				1435		1	1										X				008
11	SAND-2		C				1440		1	1										X				009
12	SAND-3	↓	C			↓	1445		1	1										X				010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	[signature]	9/18/12	1652	[signature]	9/18/12	16:52	4.1	Y	W	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Trinh Dinh

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/18/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1653470

Section A Required Client Information:

Company: Hart + Hickman
Address: 2923 S. Tryon #100
Charlotte NC 28203
Email To:
Phone: 554-586-0007 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: David Graham
Copy To:
Purchase Order No.:
Project Name: DOT- Mecklenburg County
Project Number: ROW-407

Section C Invoice Information:

Attention: WBS: 50000.1.STR13T1B
Company Name: NC DOT
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: RCRA Metals	TPH (GRO, DRO)	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92131883
1	SH-3 (0-2)	SL	G			091712	1600		9	4					2	3		X	X	X		013
2	SH-4 (0-2)					091712	1620															014
3	SH-5 (1-2)					091812	900															015
4	SH-6 (1-2)						1050															016
5	SH-7 (10-12)						950															017
6	SH-8 (8-10)						1025															018
7	SH-9 (2-4)						1120															019
8	SH-10 (2-4)						1135															020
9	SH-11 (2-4)						1145															021
10	SH-12 (2-4)						1340															022
11	SH-13 (2-4)						1410												X	X	X	023
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		9/18/12	1652		9/18/12	1652	4.1 Y N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John DeSa

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 9/18/12

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
4.1	Y	N	Y

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Hart & Hickman Project # 92131883

Where Received: [X] Huntersville [ ] Asheville [ ] Eden

Courier: [ ] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [X] Pace Other_____

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] None [ ] Other_____

Thermometer Used: IR Gun (T1101) T1102 **Type of Ice:** (Wet) Blue None [X] Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 4.1 C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RP 9-18-12

		Comments:
Chain of Custody Present:	[X]Yes [ ]No [ ]N/A	1.
Chain of Custody Filled Out:	[X]Yes [ ]No [ ]N/A	2.
Chain of Custody Relinquished:	[X]Yes [ ]No [ ]N/A	3.
Sampler Name & Signature on COC:	[X]Yes [ ]No [ ]N/A	4.
Samples Arrived within Hold Time:	[X]Yes [ ]No [ ]N/A	5.
Short Hold Time Analysis (<72hr):	[ ]Yes [X]No [ ]N/A	6.
Rush Turn Around Time Requested:	[ ]Yes [X]No [ ]N/A	7.
Sufficient Volume:	[X]Yes [ ]No [ ]N/A	8.
Correct Containers Used:	[X]Yes [ ]No [ ]N/A	9.
-Pace Containers Used:	[X]Yes [ ]No [ ]N/A	
Containers Intact:	[X]Yes [ ]No [ ]N/A	10.
Filtered volume received for Dissolved tests	[ ]Yes [ ]No [X]N/A	11.
Sample Labels match COC:	[ ]Yes [X]No [ ]N/A	12. 1.5-H-6-8260 - NO TIME on sample - COC-10:50 2.5H3 is missing VPH kit (3 vials) 3 Extra Kit - NO Date-TIME & Sample ID
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	[ ]Yes [ ]No [X]N/A	13. 4. Received Ziplog Soil - SH-7-(4-6) SH-7-(6-8)
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ]Yes [ ]No [X]N/A	Not on COC.
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[ ]Yes [ ]No	Initial when completed
Samples checked for dechlorination:	[ ]Yes [ ]No [X]N/A	14.
Headspace in VOA Vials (>6mm):	[ ]Yes [ ]No [X]N/A	15.
Trip Blank Present:	[ ]Yes [ ]No [X]N/A	16.
~~Trip Blank Custody Seals Present~~	~~[ ]Yes [ ]No [X]N/A~~	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: David Graham Date/Time: 9/19/12

Comments/ Resolution: David informed extra VPH kit was for SH-3(0-2). He also instructed to dispose of Ziplock bags. KG

SCURF Review: [illegible] Date: 9/18/12 **SRF Review:** CAH Date: 9/19/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)