



**UST CLOSURE REPORT**  
**Parcel #20, Mary Brittain Property**  
**600 Enola Rd, Morganton, NC**  
**State Project: U-2551**  
**WBS Element: 34832.1.1**  
**AMEC Project No.: 566772551**

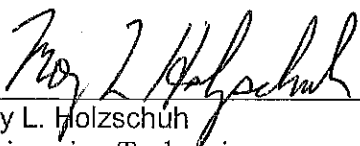
**2009 CONTRACT #7000012359**

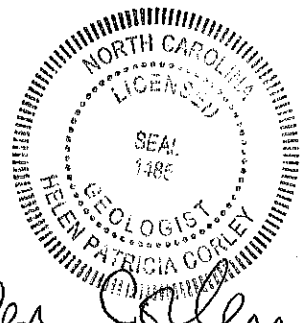
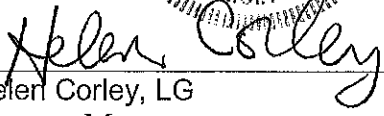
**Submitted to:**  
Mr. Terry Fox, LG, PE  
GeoEnvironmental Project Manager

**Prepared for UST Owner/Operator and Property Owner:**  
North Carolina Department of Transportation  
1589 Mail Service Center  
Raleigh, North Carolina 27699-1589

**Submitted by Consultant:**  
AMEC of North Carolina, Inc.  
2801 Yorkmont Road  
Charlotte, North Carolina 28208

December 21, 2011

  
\_\_\_\_\_  
Troy L. Holzschuh  
Engineering Technician

  
  
\_\_\_\_\_  
Helen Corley, LG  
Program Manager



## TABLE OF CONTENTS

|   |          |
|---|----------|
| <b>1.0 INTRODUCTION</b> .....                   | <b>1</b> |
| <b>2.0 SITE INFORMATION</b> .....               | <b>1</b> |
| <b>3.0 RELEASE INFORMATION</b> .....            | <b>2</b> |
| <b>4.0 SITE GEOLOGY AND HYDROGEOLOGY</b> .....  | <b>2</b> |
| <b>5.0 CLOSURE PROCEDURES</b> .....             | <b>2</b> |
| 5.1 Confirmation Soil Sampling.....             | <b>3</b> |
| <b>6.0 ANALYTICAL RESULTS</b> .....             | <b>4</b> |
| <b>7.0 CONCLUSIONS AND RECOMENDATIONS</b> ..... | <b>4</b> |
| <b>8.0 CERTIFICATION</b> .....                  | <b>4</b> |

### FIGURES

|          |                             |
|----------|-----------------------------|
| Figure 1 | Vicinity Map                |
| Figure 2 | Site Map with UST Locations |

### TABLES

|         |   |
|---------|---|
| Table 1 | PID Field Screening Data  |
| Table 2 | Soil Analytical Data - Volatile Organic Compounds and Semi-Volatile Organic Compounds     |
| Table 3 | Soil Analytical Data – Volatile Petroleum Hydrocarbons/Extractable Petroleum Hydrocarbons |

### APPENDICES

|            |                                     |
|------------|-------------------------------------|
| Appendix A | Photo Log                           |
| Appendix B | Manifests and Disposal Certificates |
| Appendix C | Excavation Log                      |
| Appendix D | Laboratory Analytical Data          |
| Appendix E | UST Forms                           |



## 1.0 INTRODUCTION

In accordance with the North Carolina Department of Transportation (NCDOT) Request for Proposal, dated October 25, 2011, AMEC of North Carolina, Inc. (AMEC) has performed a UST Closure for the Mary Brittain Property formerly Brittain's Store (the Site) to be effected by a road improvement project along SR 1922, Enola Rd. The Site building, which is located on 600 Enola Rd, was built in 1922 and formerly operated as a gas station. It is identified as Parcel #20 within the NCDOT U-2551 design project. The property, located on the southwest corner of Enola Rd and SR 1940 (Pete Brittain Rd), is in Morganton of Burke County, North Carolina. **(As shown on Figure 1)** The investigation was conducted in accordance with AMEC's Technical and Cost proposal dated October 31, 2011.

On behalf of NCDOT, AMEC is pleased to provide this UST Closure Report to the North Carolina Department of the Environment and Natural Resources (NCDENR). This report summarizes the UST removal activities, excavation of impacted soils and the analytical results of the soil samples collected during the UST system removal.

## 2.0 SITE INFORMATION

Date of Report: December 21, 2011  
Facility I.D.: N/A UST Incident Number (if known): \_\_\_\_\_  
Site Name: Parcel 20 Mary Brittain Property  
Site Location: 600 Enola Road, Morganton, NC  
Nearest City/Town: Morganton County: Burke

UST Owner: North Carolina Department of Transportation  
Address: 1589 Mail Service Center, Raleigh, NC 27699-1589  
Phone: (919) 707-6870

UST Operator: N/A  
Address: N/A Phone: \_\_\_\_\_

Property Owner: North Carolina Department of Transportation  
Address: 1589 Mail Service Center, Raleigh, NC 27699-1589  
Phone: (919) 707-6870

Property Occupant: Unoccupied Contact: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Consultant/Contractor: AMEC of North Carolina, Inc.



Address: 2801 Yorkmont Road, Suite 100, Charlotte, NC 28208  
Phone: (704) 357-8600

Excavation Contractor: EVO Corporation  
Address: 1703 Vargrave Street, Winston Salem, NC  
Phone: 336-725-5844

Laboratory/Subcontractor: Pace Analytical Laboratory State Certification No. NC 12  
Address: 9800 Kinsey Ave # 100, Huntersville, NC 28078 Phone: (704) 875-9092

### **3.0 RELEASE INFORMATION**

Date Discovered: Unknown  
Estimated Quantity of Release: None  
Cause of Release: None  
Source of Release (Dispenser/Piping/UST): N/A  
Sizes and contents of UST system(s) from which the release occurred:

There was one 550-gallon UST and one 500-gallon UST removed from the site. The former contents were gasoline and #2 fuel oil, respectively. No known release was identified at the site.

### **4.0 SITE GEOLOGY AND HYDROGEOLOGY**

Soils at the site consist of orange, well sorted and clayey silt. The maximum depth penetrated was 6 feet below ground surface (bgs) in the tank beds excavated during the removal activities. Groundwater was not encountered during the UST removal activities.

### **5.0 CLOSURE PROCEDURES**

UST closure commenced December 8, 2011 with a vacuum truck extracting the contents of the USTs. A 1,000 gallon mixture of water and gasoline was evacuated collectively from the two USTs. The USTs were rendered inert by dropping dry ice into them. The lower explosive limit (LEL) within each tank was then checked with a photoionization detector (PID) to verify safe removal. Next the tanks were completely uncovered and removed from the ground. The UST removals confirmed the size and contents of the USTs. The actual capacities and contents are tabulated on the following page. The USTs were both slightly rusted and pitted but in overall good condition. The



UST locations and excavation layouts are shown on **Figure 2**. USTs are shown in the photo log in **Appendix A**.

| UST Identification | UST capacity in gallons | UST contents |
|--------------------|-------------------------|--------------|
| UST-1              | 550 gal.                | Gasoline     |
| UST-2              | 500 gal.                | #2 Fuel Oil  |

Field measured PID readings are shown in Table 1. Impacted soils were not observed in the tank beds. Consequently over-excavation was not necessary.

Neither bedrock nor groundwater was encountered within the excavations. The primary final excavations were rectangular in shape. The maximum depth of the excavations was 6 feet below ground surface (bgs). Excavated soil consisted of clayey silt that was orange in color.

The USTs were transported to OmniSource Southeast in Winston-Salem, North Carolina for proper disposal and recycling. Certificates of disposal are included in **Appendix B** for the USTs and their evacuated fluids. Logs of the excavations are presented in **Appendix C**.

### 5.1 Confirmation Soil Sampling

The site UST removal activities resulted in two excavations. The first excavation located on the eastern portion of the parcel contained UST 1. The second excavation located on the northern portion of the parcel contained UST 2. Field screening indicated that the soil surrounding and underlying each tank bed was unimpacted and no further excavation was necessary.

Soil sampling activities were conducted in accordance with the *UST Section Guidance Document entitled Guidelines for Site Checks, Tank Closure, and Initial Abatement for UST Releases (December 2008)*. One UST closure sample was collected from directly under the centerlines of UST 1 and 2. Samples UST-1 and UST-2 were collected at 6 feet bgs, which is within 2 feet of the bottom of the USTs.

Sample locations are shown on **Figure 2**.



The above samples were analyzed for volatile organic compounds (VOCs) by US EPA Method 8260B; semi-volatile organic compounds (SVOCs) by EPA Method 8270C; and volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) by the Massachusetts Department of Environmental Protection Methods (MADEP).

## 6.0 ANALYTICAL RESULTS

Soil sample analytical results are presented in **Tables 2** and **3**. **Appendix D** includes a copy of the complete laboratory analytical results for soil samples, which were analyzed for VOCs, SVOCs, VPH and EPH.

Laboratory analysis of the two centerline UST Closure samples collected from the two USTs reported no detections of the volatile or extractable petroleum hydrocarbons and no SVOC. However, P20-UST-1 indicated a detection of 123  $\mu\text{g}/\text{kg}$  for one VOC, acetone, which is expected to be a lab contaminant.

## 7.0 CONCLUSIONS AND RECOMENDATIONS

AMEC has completed contracted activities for the UST closures and soil excavation at Parcel 20 located at 600 Enola Road in Morganton, North Carolina. The following conclusions are based upon AMEC's field observations and data evaluation from field efforts performed on December 8, 2011.

- One 550-gallon tank and one 500-gallon tank were emptied, removed and disposed. The USTs were slightly rusted and pitted but in overall good condition.
- Analyses of closure samples from beneath the USTs indicated either no detections or one VOC detection with no MSCC exceeded.
- No further actions are recommended.



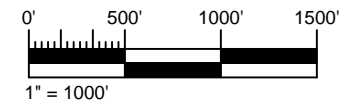
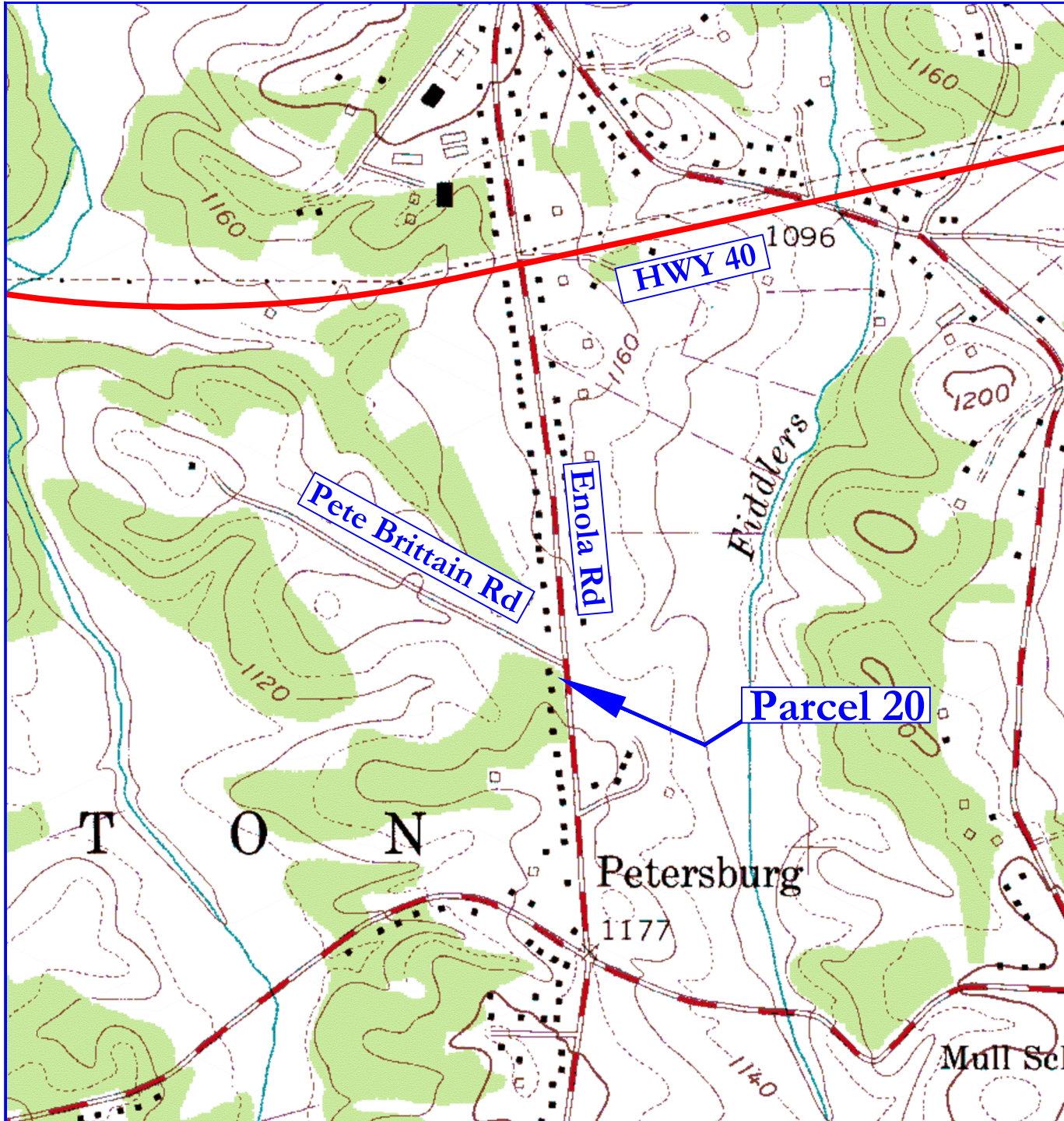
## 8.0 CERTIFICATION

I, Helen Corley, L.G., for AMEC of North Carolina, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



## FIGURES





7.5 Minute Quadrangle  
 North Carolina, 1983  
 Photorevised 1993

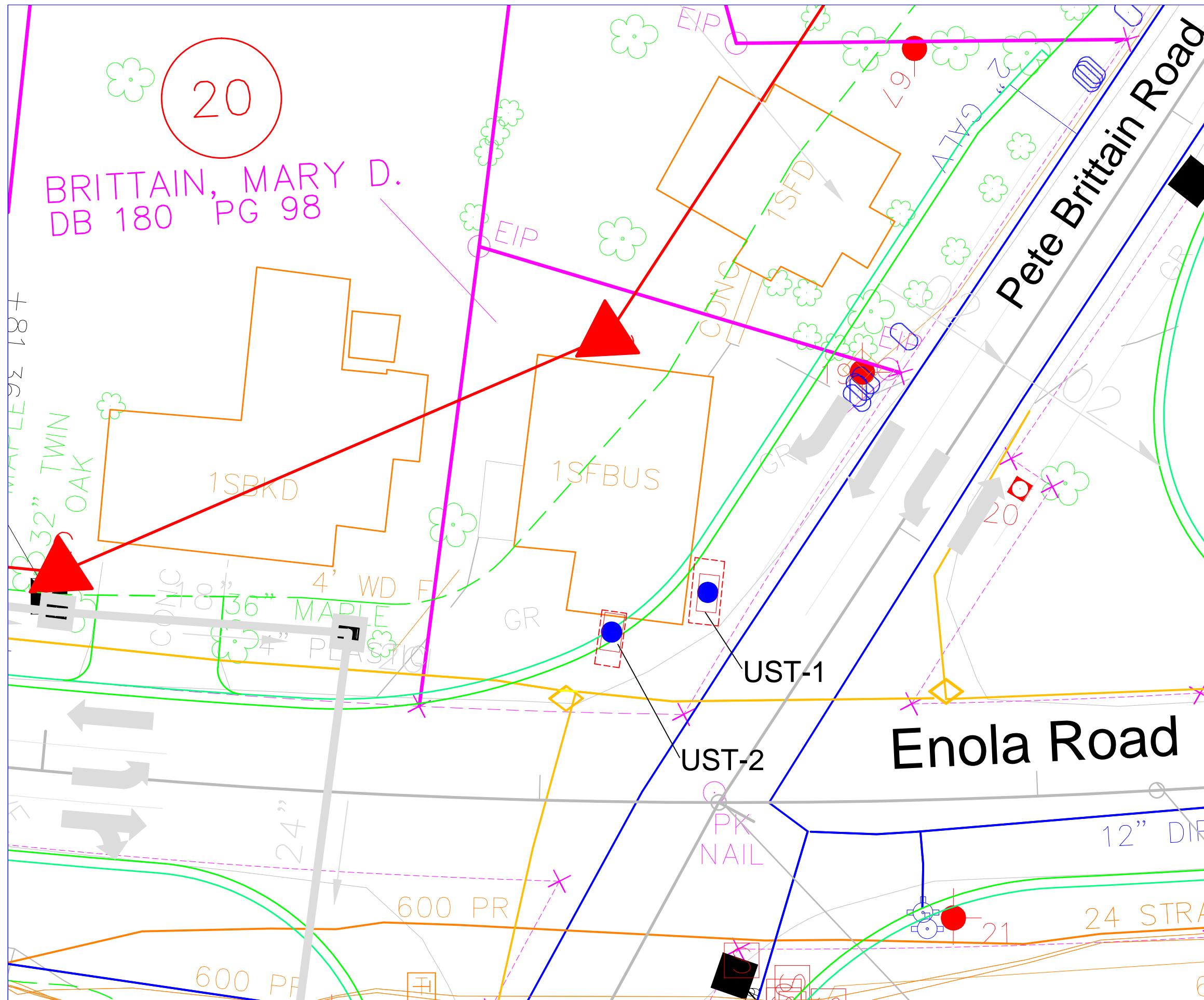
### VICINITY MAP

Parcel #20, Mary Brittain Property  
 (Former Brittain's Store)  
 Morganton, Burke County, NC











|                                   |                    |
|-----------------------------------|--------------------|
| DRAWING NAME: J:\NCDOT\Burke\FIG1 | DATE: 12/14/11     |
| SCALE: 1 INCH = 1,000 FEET        | DR TLH CHK HPC REV |

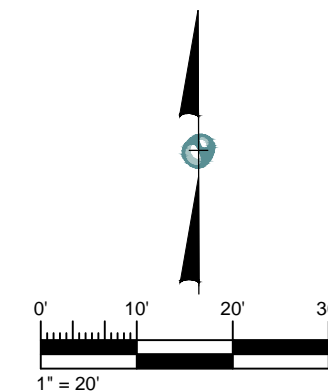
PREPARED FOR:  
 NC Department Of Transportation  
 Geotechnical Unit  
 WBS Element: 34832.1.1  
 TIP# U-2551

|  |                     |
|--|---------------------|
| Prepared By:<br><b>amec</b><br>2801 Yorkmont Rd.<br>Suite 100<br>Charlotte, NC 28208<br>(704) 357-8600 | Figure:<br>Figure 1 |
|--|---------------------|



**LEGEND**

-  Proposed Right of Way
-  Existing Property Line
-  Existing Right of Way
-  Cut Line
-  Fill Line
-  Sample Location December 2011
-  Known UST
-  UST Excavation
-  Underground Gas Line
-  Underground Water Line



**Figure 2**  
**Parcel #20 Mary Brittain Property**  
**Site Map With Sample Locations**

NC Department of Transportation  
 Geotechnical Unit  
 WBS Element: 34832.1.1  
 TIP# U-2551



## **TABLES**

**Table 1**  
**PID Field Screening**  
**Parcel 20, Mary Brittain Property**  
**Morganton, North Carolina**

| SAMPLE ID                      | Sample Date | Comments                  | Sample Depth<br>(feet bgs) | Field<br>Screening<br>(ppm) |
|--------------------------------|-------------|---------------------------|----------------------------|-----------------------------|
| P-1                            | 12/8/2011   | Composite Grab Over UST 1 | 2                          | 0                           |
| P-2                            | 12/8/2011   | East of UST 1             | 2                          | 0                           |
| P-3                            | 12/8/2011   | East of UST 1             | 4                          | 0                           |
| P-4                            | 12/8/2011   | South of UST 1            | 2                          | 0                           |
| P-5                            | 12/8/2011   | North of UST 1            | 2                          | 0                           |
| P-6                            | 12/8/2011   | UST 1 (Closure Sample)    | 6                          | 0                           |
| P-7                            | 12/8/2011   | Composite Grab Over UST 2 | 2                          | 0                           |
| P-8                            | 12/8/2011   | North of UST 2            | 4                          | 0                           |
| P-9                            | 12/8/2011   | West of UST 2             | 4                          | 0                           |
| P-10                           | 12/8/2011   | East of UST 2             | 4                          | 0                           |
| P-11                           | 12/8/2011   | UST 2 (Closure Sample)    | 6                          | 0                           |
| Notes: PPM = Parts Per Million |             |                           |                            |                             |

**Table 2**  
**Soil Analytical Data**  
**Organic Compounds**  
**Parcel 20, Former Mary Brittain Property**  
**Morganton, North Carolina**

| Sample ID Number | Sample Date | Sample Depth (ft bgs) | VOC 8260 (µg/kg)    | SVOC 8270 (µg/kg)   | Aliphatics (mg/kg) |            |            |             | Aromatics (mg/kg) |             |
|------------------|-------------|-----------------------|---------------------|---------------------|--------------------|------------|------------|-------------|-------------------|-------------|
|                  |             |                       |                     |                     | VPH C5-C8          | VPH C9-C12 | EPH C9-C18 | EPH C19-C36 | VPH C9-C10        | EPH C11-C22 |
| UST-1            | 12/8/2011   | 6                     | All Constituents ND | All Constituents ND | <3.4               | <3.4       | <13.3      | <13.3       | <3.4              | <13.3       |
| UST-2            | 12/8/2011   | 6                     | All Constituents ND | All Constituents ND | <3.4               | <3.4       | <12.8      | <12.8       | <3.4              | <12.8       |

**NOTES:**  
(µg/kg) = Micrograms per kilogram  
VOC = Volatile organic compounds  
SVOC = Semivolatile organic compounds  
VPH = Volatile Petroleum Hydrocarbons  
EPH = Extractable Petroleum Hydrocarbons  
ft bgs = feet below ground surface



## **APPENDIX A**

### **PHOTO LOG**





**Photo 1**

Viewing the Site from directly across Enola Road.



**Photo 2**

Viewing southeast - Mini-Excavator Uncovering UST-1.



2801 Yorkmont Rd, Suite 100  
Charlotte, NC 28208

W.O. 566772551  
PROCESSED TLH  
DATE December 2011  
PAGE

PHOTOGRAPHIC LOG

UST Closure Activities  
Parcel 20, 600 Enola Rd, Morganton, NC



**Photo 3**

View of UST-2 after removed from tank bed.

12/08/2011 AM 11:49



**Photo 4**

Viewing site after backfill and grading.

12/08/2011 PM 01:56



2801 Yorkmont Rd, Suite 100  
Charlotte, NC 28208

W.O. 566772551  
PROCESSED TLH  
DATE December 2011  
PAGE

PHOTOGRAPHIC LOG  
UST Closure Activities  
Parcel 20, 600 Enola Rd, Morganton, NC





## **APPENDIX B**

### **MANIFESTS AND DISPOSAL CERTIFICATES**

# EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107  
www.evocorp.net

## NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 72330

### GENERATOR INFORMATION

Generator: NCDOT  
Site Address: 600 Enola Road  
City/State: Morganton, NC

Phone: 704-307-1233  
Contact: Troy Holzschuh

### MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): \_\_\_\_\_  
Empty Weight (lbs): \_\_\_\_\_  
Net Weight (lbs): \_\_\_\_\_

Material: Water  
Gasoline  
Contaminant: \_\_\_\_\_

Quantity

1000

Tons Drums Pails Sacs Yards Other 51

### TRANSPORTER INFORMATION

Transporter: Evo Corporation  
Truck #: 402

Phone: 336-725-5844  
Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 12/8/11

### FACILITY INFORMATION

111151

Evo Project #: \_\_\_\_\_

EVO CORPORATION  
1703 Vargrave Street  
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 12-08-2011

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

# EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107  
www.evocorp.net

## NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 72330

### GENERATOR INFORMATION

Generator: NCDOT  
Site Address: 600 Enola Road  
City/State: Morganton, NC

Phone: 704-307-1233  
Contact: Troy Holzschuh

### MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): \_\_\_\_\_  
Empty Weight (lbs): \_\_\_\_\_  
Net Weight (lbs): \_\_\_\_\_

Material: Water  
Gasoline  
Contaminant: \_\_\_\_\_

Quantity

1000

Tons Drums Pails Sacs Yards Other 51

### TRANSPORTER INFORMATION

Transporter: Evo Corporation  
Truck #: 402

Phone: 336-725-5844  
Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 12/8/11

### FACILITY INFORMATION

111151

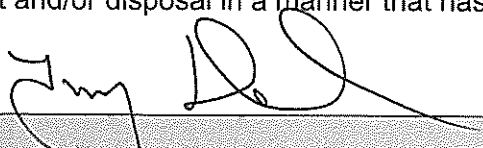
Evo Project #: \_\_\_\_\_

EVO CORPORATION  
1703 Vargrave Street  
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 12-08-2011

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier



**APPENDIX C**  
**EXCAVATION LOG**







## **APPENDIX D**

### **LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY RECORDS**



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

December 19, 2011

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

RE: Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

Dear Chemical Engineer:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2011. 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,

Erin Waters for  
Kevin Godwin  
kevin.godwin@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..





**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 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

## CERTIFICATIONS

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

### Charlotte Certification IDs

9800 Kinsey 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  
South Carolina Drinking Water Cert. #: 99006003  
Virginia Drinking Water Certification #: 00213

Connecticut Certification #: PH-0104  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DHH Drinking Water # LA 100031  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460144

---

## REPORT OF LABORATORY ANALYSIS

Page 2 of 32

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



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

### SAMPLE ANALYTE COUNT

Project: BURKE CO WBS# 34832.1.1  
 Pace Project No.: 92108091

| Lab ID      | Sample ID      | Method        | Analysts | Analytes Reported | Laboratory |
|-------------|----------------|---------------|----------|-------------------|------------|
| 92108091001 | P20-UST-1 (6') | MADEP EPH     | RES      | 7                 | PASI-C     |
|             |                | MADEP VPH     | KJM      | 5                 | PASI-C     |
|             |                | EPA 8270      | BPJ      | 74                | PASI-C     |
|             |                | EPA 8260      | DLK      | 71                | PASI-C     |
|             |                | ASTM D2974-87 | JEA      | 1                 | PASI-C     |
| 92108091002 | P20-UST-2 (6') | MADEP EPH     | RES      | 7                 | PASI-C     |
|             |                | MADEP VPH     | KJM      | 5                 | PASI-C     |
|             |                | EPA 8270      | BPJ      | 74                | PASI-C     |
|             |                | EPA 8260      | DLK      | 71                | PASI-C     |
|             |                | ASTM D2974-87 | JEA      | 1                 | PASI-C     |

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
 without the written consent of Pace Analytical Services, Inc..

## PROJECT NARRATIVE

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

---

**Method:** MADEP EPH  
**Description:** MADEP EPH NC Soil  
**Client:** NCDOT  
**Date:** December 19, 2011

**General Information:**

2 samples were analyzed for MADEP EPH. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with MADEP EPH with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: OEXT/15848

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 698643)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- LCS (Lab ID: 698644)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)

## REPORT OF LABORATORY ANALYSIS

## PROJECT NARRATIVE

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

---

**Method:** MADEP EPH  
**Description:** MADEP EPH NC Soil  
**Client:** NCDOT  
**Date:** December 19, 2011

Analyte Comments:

QC Batch: OEXT/15848

N2: The lab does not hold TNI accreditation for this parameter.

- LCSD (Lab ID: 698645)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)
- P20-UST-1 (6') (Lab ID: 92108091001)
  - Aromatic (C11-C22)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
- P20-UST-2 (6') (Lab ID: 92108091002)
  - Aliphatic (C09-C18)
  - Aliphatic (C19-C36)
  - Aromatic (C11-C22)

## PROJECT NARRATIVE

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

---

**Method:** MADEP VPH  
**Description:** VPH NC Soil  
**Client:** NCDOT  
**Date:** December 19, 2011

### General Information:

2 samples were analyzed for MADEP VPH. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with MADEP VPH with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: GCV/5586

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- P20-UST-1 (6') (Lab ID: 92108091001)
- 2,5-Dibromotoluene (FID)(S)

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

## PROJECT NARRATIVE

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

---

**Method:** MADEP VPH  
**Description:** VPH NC Soil  
**Client:** NCDOT  
**Date:** December 19, 2011

Analyte Comments:

QC Batch: GCV/5586

1g: Surrogate fails after Moisture Correction for Methanol.

- P20-UST-1 (6') (Lab ID: 92108091001)
  - 2,5-Dibromotoluene (PID)(S)
- P20-UST-2 (6') (Lab ID: 92108091002)
  - 2,5-Dibromotoluene (FID)(S)

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 698197)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCS (Lab ID: 698198)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- LCSD (Lab ID: 698199)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)
- P20-UST-1 (6') (Lab ID: 92108091001)
  - Aromatic (C09-C10)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
- P20-UST-2 (6') (Lab ID: 92108091002)
  - Aliphatic (C05-C08)
  - Aliphatic (C09-C12)
  - Aromatic (C09-C10)

## REPORT OF LABORATORY ANALYSIS

Page 7 of 32

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## PROJECT NARRATIVE

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

---

**Method:** EPA 8270  
**Description:** 8270 MSSV Microwave  
**Client:** NCDOT  
**Date:** December 19, 2011

**General Information:**

2 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS



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

## PROJECT NARRATIVE

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

---

**Method:** EPA 8260  
**Description:** 8260/5035A Volatile Organics  
**Client:** NCDOT  
**Date:** December 19, 2011

### General Information:

2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

Page 9 of 32

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



## ANALYTICAL RESULTS

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

**Sample: P20-UST-1 (6')**      **Lab ID: 92108091001**      Collected: 12/08/11 11:00      Received: 12/08/11 15:21      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results  | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|----------|---|--------------|----|----------------|----------------|-----------|------|
| <b>MADEP EPH NC Soil</b>     |          | Analytical Method: MADEP EPH    Preparation Method: MADEP EPH |              |    |                |                |           |      |
| Aliphatic (C09-C18)          | ND mg/kg |   | 13.3         | 1  | 12/12/11 14:30 | 12/15/11 18:54 |           | N2   |
| Aliphatic (C19-C36)          | ND mg/kg |   | 13.3         | 1  | 12/12/11 14:30 | 12/15/11 18:54 |           | N2   |
| Aromatic (C11-C22)           | ND mg/kg |   | 13.3         | 1  | 12/12/11 14:30 | 12/15/11 18:54 |           | N2   |
| <b>Surrogates</b>            |          |   |              |    |                |                |           |      |
| Nonatriacontane (S)          | 84 %     |   | 40-140       | 1  | 12/12/11 14:30 | 12/15/11 18:54 | 7194-86-7 |      |
| o-Terphenyl (S)              | 75 %     |   | 40-140       | 1  | 12/12/11 14:30 | 12/15/11 18:54 | 84-15-1   |      |
| 2-Fluorobiphenyl (S)         | 101 %    |   | 40-140       | 1  | 12/12/11 14:30 | 12/15/11 18:54 | 321-60-8  |      |
| 2-Bromonaphthalene (S)       | 115 %    |   | 40-140       | 1  | 12/12/11 14:30 | 12/15/11 18:54 | 580-13-2  |      |
| <b>VPH NC Soil</b>           |          | Analytical Method: MADEP VPH    Preparation Method: MADEP VPH |              |    |                |                |           |      |
| Aliphatic (C05-C08)          | ND mg/kg |   | 3.4          | 1  | 12/10/11 09:38 | 12/10/11 17:03 |           | N2   |
| Aliphatic (C09-C12)          | ND mg/kg |   | 3.4          | 1  | 12/10/11 09:38 | 12/10/11 17:03 |           | N2   |
| Aromatic (C09-C10)           | ND mg/kg |   | 3.4          | 1  | 12/10/11 09:38 | 12/10/11 17:03 |           | N2   |
| <b>Surrogates</b>            |          |   |              |    |                |                |           |      |
| 2,5-Dibromotoluene (PID)(S)  | 155 %    |   | 70-130       | 1  | 12/10/11 09:38 | 12/10/11 17:03 |           | 1g   |
| 2,5-Dibromotoluene (FID)(S)  | 198 %    |   | 70-130       | 1  | 12/10/11 09:38 | 12/10/11 17:03 |           | S3   |
| <b>8270 MSSV Microwave</b>   |          | Analytical Method: EPA 8270    Preparation Method: EPA 3546   |              |    |                |                |           |      |
| Acenaphthene                 | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 83-32-9   |      |
| Acenaphthylene               | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 208-96-8  |      |
| Aniline                      | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 62-53-3   |      |
| Anthracene                   | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 120-12-7  |      |
| Benzo(a)anthracene           | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 56-55-3   |      |
| Benzo(a)pyrene               | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 50-32-8   |      |
| Benzo(b)fluoranthene         | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 205-99-2  |      |
| Benzo(g,h,i)perylene         | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 191-24-2  |      |
| Benzo(k)fluoranthene         | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 207-08-9  |      |
| Benzoic Acid                 | ND ug/kg |   | 2170         | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 65-85-0   |      |
| Benzyl alcohol               | ND ug/kg |   | 868          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 100-51-6  |      |
| 4-Bromophenylphenyl ether    | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 101-55-3  |      |
| Butylbenzylphthalate         | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 85-68-7   |      |
| 4-Chloro-3-methylphenol      | ND ug/kg |   | 868          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 59-50-7   |      |
| 4-Chloroaniline              | ND ug/kg |   | 2170         | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane   | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 111-91-1  |      |
| bis(2-Chloroethyl) ether     | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 108-60-1  |      |
| 2-Chloronaphthalene          | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 91-58-7   |      |
| 2-Chlorophenol               | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 7005-72-3 |      |
| Chrysene                     | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 218-01-9  |      |
| Dibenz(a,h)anthracene        | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 53-70-3   |      |
| Dibenzofuran                 | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 132-64-9  |      |
| 1,2-Dichlorobenzene          | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 95-50-1   |      |
| 1,3-Dichlorobenzene          | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 541-73-1  |      |
| 1,4-Dichlorobenzene          | ND ug/kg |   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 106-46-7  |      |
| 3,3'-Dichlorobenzidine       | ND ug/kg |   | 2170         | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 91-94-1   |      |

## ANALYTICAL RESULTS

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

**Sample: P20-UST-1 (6')**      **Lab ID: 92108091001**      Collected: 12/08/11 11:00      Received: 12/08/11 15:21      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|------------|------|
| <b>8270 MSSV Microwave</b>   |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| 2,4-Dichlorophenol           | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 120-83-2   |      |
| Diethylphthalate             | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 84-66-2    |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 105-67-9   |      |
| Dimethylphthalate            | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 131-11-3   |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 84-74-2    |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 868          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 534-52-1   |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 2170         | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 51-28-5    |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 121-14-2   |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 606-20-2   |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 117-84-0   |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 117-81-7   |      |
| Fluoranthene                 | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 206-44-0   |      |
| Fluorene                     | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 86-73-7    |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 87-68-3    |      |
| Hexachlorobenzene            | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 118-74-1   |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 77-47-4    |      |
| Hexachloroethane             | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 67-72-1    |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 193-39-5   |      |
| Isophorone                   | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 78-59-1    |      |
| 1-Methylnaphthalene          | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 90-12-0    |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 91-57-6    |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 95-48-7    |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 |            |      |
| Naphthalene                  | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 91-20-3    |      |
| 2-Nitroaniline               | ND      | ug/kg   | 2170         | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 88-74-4    |      |
| 3-Nitroaniline               | ND      | ug/kg   | 2170         | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 99-09-2    |      |
| 4-Nitroaniline               | ND      | ug/kg   | 868          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 100-01-6   |      |
| Nitrobenzene                 | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 98-95-3    |      |
| 2-Nitrophenol                | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 88-75-5    |      |
| 4-Nitrophenol                | ND      | ug/kg   | 2170         | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 100-02-7   |      |
| N-Nitrosodimethylamine       | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 62-75-9    |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 621-64-7   |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 86-30-6    |      |
| Pentachlorophenol            | ND      | ug/kg   | 2170         | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 87-86-5    |      |
| Phenanthrene                 | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 85-01-8    |      |
| Phenol                       | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 108-95-2   |      |
| Pyrene                       | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 129-00-0   |      |
| 1,2,4-Trichlorobenzene       | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 120-82-1   |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 95-95-4    |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 434          | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 88-06-2    |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |            |      |
| Nitrobenzene-d5 (S)          | 46 %    |   | 23-110       | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 4165-60-0  |      |
| 2-Fluorobiphenyl (S)         | 49 %    |   | 30-110       | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 321-60-8   |      |
| Terphenyl-d14 (S)            | 58 %    |   | 28-110       | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 1718-51-0  |      |
| Phenol-d6 (S)                | 65 %    |   | 22-110       | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 13127-88-3 |      |
| 2-Fluorophenol (S)           | 59 %    |   | 13-110       | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 367-12-4   |      |

## ANALYTICAL RESULTS

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

**Sample: P20-UST-1 (6')**      **Lab ID: 92108091001**      Collected: 12/08/11 11:00      Received: 12/08/11 15:21      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                          | Results   | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|-------------------------------------|-----------|---|--------------|----|----------------|----------------|------------|------|
| <b>8270 MSSV Microwave</b>          |           | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| <b>Surrogates</b>                   |           |   |              |    |                |                |            |      |
| 2,4,6-Tribromophenol (S)            | 78 %      |   | 27-110       | 1  | 12/09/11 08:26 | 12/13/11 19:38 | 118-79-6   |      |
| <b>8260/5035A Volatile Organics</b> |           | Analytical Method: EPA 8260                                 |              |    |                |                |            |      |
| Acetone                             | 123 ug/kg |   | 108          | 1  |                | 12/16/11 16:53 | 67-64-1    |      |
| Benzene                             | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 71-43-2    |      |
| Bromobenzene                        | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 108-86-1   |      |
| Bromochloromethane                  | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 74-97-5    |      |
| Bromodichloromethane                | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 75-27-4    |      |
| Bromoform                           | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 75-25-2    |      |
| Bromomethane                        | ND ug/kg  |   | 10.8         | 1  |                | 12/16/11 16:53 | 74-83-9    |      |
| 2-Butanone (MEK)                    | ND ug/kg  |   | 108          | 1  |                | 12/16/11 16:53 | 78-93-3    |      |
| n-Butylbenzene                      | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 104-51-8   |      |
| sec-Butylbenzene                    | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 135-98-8   |      |
| tert-Butylbenzene                   | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 98-06-6    |      |
| Carbon tetrachloride                | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 56-23-5    |      |
| Chlorobenzene                       | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 108-90-7   |      |
| Chloroethane                        | ND ug/kg  |   | 10.8         | 1  |                | 12/16/11 16:53 | 75-00-3    |      |
| Chloroform                          | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 67-66-3    |      |
| Chloromethane                       | ND ug/kg  |   | 10.8         | 1  |                | 12/16/11 16:53 | 74-87-3    |      |
| 2-Chlorotoluene                     | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 95-49-8    |      |
| 4-Chlorotoluene                     | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane         | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 96-12-8    |      |
| Dibromochloromethane                | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)             | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 106-93-4   |      |
| Dibromomethane                      | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 74-95-3    |      |
| 1,2-Dichlorobenzene                 | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 95-50-1    |      |
| 1,3-Dichlorobenzene                 | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 541-73-1   |      |
| 1,4-Dichlorobenzene                 | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 106-46-7   |      |
| Dichlorodifluoromethane             | ND ug/kg  |   | 10.8         | 1  |                | 12/16/11 16:53 | 75-71-8    |      |
| 1,1-Dichloroethane                  | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 75-34-3    |      |
| 1,2-Dichloroethane                  | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 107-06-2   |      |
| 1,1-Dichloroethene                  | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 75-35-4    |      |
| cis-1,2-Dichloroethene              | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 156-59-2   |      |
| trans-1,2-Dichloroethene            | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 156-60-5   |      |
| 1,2-Dichloropropane                 | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 78-87-5    |      |
| 1,3-Dichloropropane                 | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 142-28-9   |      |
| 2,2-Dichloropropane                 | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 594-20-7   |      |
| 1,1-Dichloropropene                 | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 563-58-6   |      |
| cis-1,3-Dichloropropene             | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 10061-01-5 |      |
| trans-1,3-Dichloropropene           | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 10061-02-6 |      |
| Diisopropyl ether                   | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 108-20-3   |      |
| Ethylbenzene                        | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 100-41-4   |      |
| Hexachloro-1,3-butadiene            | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 87-68-3    |      |
| 2-Hexanone                          | ND ug/kg  |   | 53.8         | 1  |                | 12/16/11 16:53 | 591-78-6   |      |
| Isopropylbenzene (Cumene)           | ND ug/kg  |   | 5.4          | 1  |                | 12/16/11 16:53 | 98-82-8    |      |

## ANALYTICAL RESULTS

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

**Sample: P20-UST-1 (6')**      **Lab ID: 92108091001**      Collected: 12/08/11 11:00      Received: 12/08/11 15:21      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                          | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-------------------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-------------|------|
| <b>8260/5035A Volatile Organics</b> |               | Analytical Method: EPA 8260      |              |    |          |                |             |      |
| p-Isopropyltoluene                  | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 99-87-6     |      |
| Methylene Chloride                  | ND            | ug/kg                            | 21.5         | 1  |          | 12/16/11 16:53 | 75-09-2     |      |
| 4-Methyl-2-pentanone (MIBK)         | ND            | ug/kg                            | 53.8         | 1  |          | 12/16/11 16:53 | 108-10-1    |      |
| Methyl-tert-butyl ether             | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 1634-04-4   |      |
| Naphthalene                         | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 91-20-3     |      |
| n-Propylbenzene                     | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 103-65-1    |      |
| Styrene                             | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane           | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane           | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 79-34-5     |      |
| Tetrachloroethene                   | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 127-18-4    |      |
| Toluene                             | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene              | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene              | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 120-82-1    |      |
| 1,1,1-Trichloroethane               | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 71-55-6     |      |
| 1,1,2-Trichloroethane               | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 79-00-5     |      |
| Trichloroethene                     | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 79-01-6     |      |
| Trichlorofluoromethane              | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 75-69-4     |      |
| 1,2,3-Trichloropropane              | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene              | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene              | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 108-67-8    |      |
| Vinyl acetate                       | ND            | ug/kg                            | 53.8         | 1  |          | 12/16/11 16:53 | 108-05-4    |      |
| Vinyl chloride                      | ND            | ug/kg                            | 10.8         | 1  |          | 12/16/11 16:53 | 75-01-4     |      |
| Xylene (Total)                      | ND            | ug/kg                            | 10.8         | 1  |          | 12/16/11 16:53 | 1330-20-7   |      |
| m&p-Xylene                          | ND            | ug/kg                            | 10.8         | 1  |          | 12/16/11 16:53 | 179601-23-1 |      |
| o-Xylene                            | ND            | ug/kg                            | 5.4          | 1  |          | 12/16/11 16:53 | 95-47-6     |      |
| <b>Surrogates</b>                   |               |                                  |              |    |          |                |             |      |
| Dibromofluoromethane (S)            | 105 %         |                                  | 70-130       | 1  |          | 12/16/11 16:53 | 1868-53-7   |      |
| Toluene-d8 (S)                      | 100 %         |                                  | 70-130       | 1  |          | 12/16/11 16:53 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)            | 93 %          |                                  | 70-130       | 1  |          | 12/16/11 16:53 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)           | 95 %          |                                  | 70-132       | 1  |          | 12/16/11 16:53 | 17060-07-0  |      |
| <b>Percent Moisture</b>             |               | Analytical Method: ASTM D2974-87 |              |    |          |                |             |      |
| Percent Moisture                    | <b>24.9 %</b> |                                  | 0.10         | 1  |          | 12/09/11 13:52 |             |      |

## ANALYTICAL RESULTS

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

**Sample: P20-UST-2 (6')**      **Lab ID: 92108091002**      Collected: 12/08/11 11:50      Received: 12/08/11 15:21      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results  | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|------------------------------|----------|---|--------------|----|----------------|----------------|-----------|------|
| <b>MADEP EPH NC Soil</b>     |          | Analytical Method: MADEP EPH    Preparation Method: MADEP EPH |              |    |                |                |           |      |
| Aliphatic (C09-C18)          | ND mg/kg |   | 12.8         | 1  | 12/12/11 14:30 | 12/15/11 19:30 |           | N2   |
| Aliphatic (C19-C36)          | ND mg/kg |   | 12.8         | 1  | 12/12/11 14:30 | 12/15/11 19:30 |           | N2   |
| Aromatic (C11-C22)           | ND mg/kg |   | 12.8         | 1  | 12/12/11 14:30 | 12/15/11 19:30 |           | N2   |
| <b>Surrogates</b>            |          |   |              |    |                |                |           |      |
| Nonatriacontane (S)          | 81 %     |   | 40-140       | 1  | 12/12/11 14:30 | 12/15/11 19:30 | 7194-86-7 |      |
| o-Terphenyl (S)              | 64 %     |   | 40-140       | 1  | 12/12/11 14:30 | 12/15/11 19:30 | 84-15-1   |      |
| 2-Fluorobiphenyl (S)         | 91 %     |   | 40-140       | 1  | 12/12/11 14:30 | 12/15/11 19:30 | 321-60-8  |      |
| 2-Bromonaphthalene (S)       | 94 %     |   | 40-140       | 1  | 12/12/11 14:30 | 12/15/11 19:30 | 580-13-2  |      |
| <b>VPH NC Soil</b>           |          | Analytical Method: MADEP VPH    Preparation Method: MADEP VPH |              |    |                |                |           |      |
| Aliphatic (C05-C08)          | ND mg/kg |   | 3.4          | 1  | 12/10/11 09:38 | 12/10/11 17:28 |           | N2   |
| Aliphatic (C09-C12)          | ND mg/kg |   | 3.4          | 1  | 12/10/11 09:38 | 12/10/11 17:28 |           | N2   |
| Aromatic (C09-C10)           | ND mg/kg |   | 3.4          | 1  | 12/10/11 09:38 | 12/10/11 17:28 |           | N2   |
| <b>Surrogates</b>            |          |   |              |    |                |                |           |      |
| 2,5-Dibromotoluene (PID)(S)  | 106 %    |   | 70-130       | 1  | 12/10/11 09:38 | 12/10/11 17:28 |           |      |
| 2,5-Dibromotoluene (FID)(S)  | 137 %    |   | 70-130       | 1  | 12/10/11 09:38 | 12/10/11 17:28 |           | 1g   |
| <b>8270 MSSV Microwave</b>   |          | Analytical Method: EPA 8270    Preparation Method: EPA 3546   |              |    |                |                |           |      |
| Acenaphthene                 | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 83-32-9   |      |
| Acenaphthylene               | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 208-96-8  |      |
| Aniline                      | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 62-53-3   |      |
| Anthracene                   | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 120-12-7  |      |
| Benzo(a)anthracene           | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 56-55-3   |      |
| Benzo(a)pyrene               | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 50-32-8   |      |
| Benzo(b)fluoranthene         | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 205-99-2  |      |
| Benzo(g,h,i)perylene         | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 191-24-2  |      |
| Benzo(k)fluoranthene         | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 207-08-9  |      |
| Benzoic Acid                 | ND ug/kg |   | 2120         | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 65-85-0   |      |
| Benzyl alcohol               | ND ug/kg |   | 849          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 100-51-6  |      |
| 4-Bromophenylphenyl ether    | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 101-55-3  |      |
| Butylbenzylphthalate         | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 85-68-7   |      |
| 4-Chloro-3-methylphenol      | ND ug/kg |   | 849          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 59-50-7   |      |
| 4-Chloroaniline              | ND ug/kg |   | 2120         | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 106-47-8  |      |
| bis(2-Chloroethoxy)methane   | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 111-91-1  |      |
| bis(2-Chloroethyl) ether     | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 108-60-1  |      |
| 2-Chloronaphthalene          | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 91-58-7   |      |
| 2-Chlorophenol               | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 7005-72-3 |      |
| Chrysene                     | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 218-01-9  |      |
| Dibenz(a,h)anthracene        | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 53-70-3   |      |
| Dibenzofuran                 | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 132-64-9  |      |
| 1,2-Dichlorobenzene          | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 95-50-1   |      |
| 1,3-Dichlorobenzene          | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 541-73-1  |      |
| 1,4-Dichlorobenzene          | ND ug/kg |   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 106-46-7  |      |
| 3,3'-Dichlorobenzidine       | ND ug/kg |   | 2120         | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 91-94-1   |      |



## ANALYTICAL RESULTS

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

**Sample: P20-UST-2 (6')**      **Lab ID: 92108091002**      Collected: 12/08/11 11:50      Received: 12/08/11 15:21      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                   | Results | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|------------------------------|---------|---|--------------|----|----------------|----------------|------------|------|
| <b>8270 MSSV Microwave</b>   |         | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| 2,4-Dichlorophenol           | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 120-83-2   |      |
| Diethylphthalate             | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 84-66-2    |      |
| 2,4-Dimethylphenol           | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 105-67-9   |      |
| Dimethylphthalate            | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 131-11-3   |      |
| Di-n-butylphthalate          | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 84-74-2    |      |
| 4,6-Dinitro-2-methylphenol   | ND      | ug/kg   | 849          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 534-52-1   |      |
| 2,4-Dinitrophenol            | ND      | ug/kg   | 2120         | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 51-28-5    |      |
| 2,4-Dinitrotoluene           | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 121-14-2   |      |
| 2,6-Dinitrotoluene           | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 606-20-2   |      |
| Di-n-octylphthalate          | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 117-84-0   |      |
| bis(2-Ethylhexyl)phthalate   | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 117-81-7   |      |
| Fluoranthene                 | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 206-44-0   |      |
| Fluorene                     | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 86-73-7    |      |
| Hexachloro-1,3-butadiene     | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 87-68-3    |      |
| Hexachlorobenzene            | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 118-74-1   |      |
| Hexachlorocyclopentadiene    | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 77-47-4    |      |
| Hexachloroethane             | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 67-72-1    |      |
| Indeno(1,2,3-cd)pyrene       | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 193-39-5   |      |
| Isophorone                   | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 78-59-1    |      |
| 1-Methylnaphthalene          | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 90-12-0    |      |
| 2-Methylnaphthalene          | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 91-57-6    |      |
| 2-Methylphenol(o-Cresol)     | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 95-48-7    |      |
| 3&4-Methylphenol(m&p Cresol) | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 |            |      |
| Naphthalene                  | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 91-20-3    |      |
| 2-Nitroaniline               | ND      | ug/kg   | 2120         | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 88-74-4    |      |
| 3-Nitroaniline               | ND      | ug/kg   | 2120         | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 99-09-2    |      |
| 4-Nitroaniline               | ND      | ug/kg   | 849          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 100-01-6   |      |
| Nitrobenzene                 | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 98-95-3    |      |
| 2-Nitrophenol                | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 88-75-5    |      |
| 4-Nitrophenol                | ND      | ug/kg   | 2120         | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 100-02-7   |      |
| N-Nitrosodimethylamine       | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 62-75-9    |      |
| N-Nitroso-di-n-propylamine   | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 621-64-7   |      |
| N-Nitrosodiphenylamine       | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 86-30-6    |      |
| Pentachlorophenol            | ND      | ug/kg   | 2120         | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 87-86-5    |      |
| Phenanthrene                 | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 85-01-8    |      |
| Phenol                       | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 108-95-2   |      |
| Pyrene                       | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 129-00-0   |      |
| 1,2,4-Trichlorobenzene       | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 120-82-1   |      |
| 2,4,5-Trichlorophenol        | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 95-95-4    |      |
| 2,4,6-Trichlorophenol        | ND      | ug/kg   | 425          | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 88-06-2    |      |
| <b>Surrogates</b>            |         |   |              |    |                |                |            |      |
| Nitrobenzene-d5 (S)          | 54 %    |   | 23-110       | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 4165-60-0  |      |
| 2-Fluorobiphenyl (S)         | 60 %    |   | 30-110       | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 321-60-8   |      |
| Terphenyl-d14 (S)            | 67 %    |   | 28-110       | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 1718-51-0  |      |
| Phenol-d6 (S)                | 70 %    |   | 22-110       | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 13127-88-3 |      |
| 2-Fluorophenol (S)           | 70 %    |   | 13-110       | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 367-12-4   |      |

Date: 12/19/2011 05:17 PM

### REPORT OF LABORATORY ANALYSIS

Page 15 of 32

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

**Sample: P20-UST-2 (6')**      **Lab ID: 92108091002**      Collected: 12/08/11 11:50      Received: 12/08/11 15:21      Matrix: Solid

*Results reported on a "dry-weight" basis*

| Parameters                          | Results  | Units   | Report Limit | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|-------------------------------------|----------|---|--------------|----|----------------|----------------|------------|------|
| <b>8270 MSSV Microwave</b>          |          | Analytical Method: EPA 8270    Preparation Method: EPA 3546 |              |    |                |                |            |      |
| <b>Surrogates</b>                   |          |   |              |    |                |                |            |      |
| 2,4,6-Tribromophenol (S)            | 78 %     |   | 27-110       | 1  | 12/09/11 08:26 | 12/13/11 20:10 | 118-79-6   |      |
| <b>8260/5035A Volatile Organics</b> |          | Analytical Method: EPA 8260                                 |              |    |                |                |            |      |
| Acetone                             | ND ug/kg |   | 112          | 1  |                | 12/16/11 17:13 | 67-64-1    |      |
| Benzene                             | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 71-43-2    |      |
| Bromobenzene                        | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 108-86-1   |      |
| Bromochloromethane                  | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 74-97-5    |      |
| Bromodichloromethane                | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 75-27-4    |      |
| Bromoform                           | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 75-25-2    |      |
| Bromomethane                        | ND ug/kg |   | 11.2         | 1  |                | 12/16/11 17:13 | 74-83-9    |      |
| 2-Butanone (MEK)                    | ND ug/kg |   | 112          | 1  |                | 12/16/11 17:13 | 78-93-3    |      |
| n-Butylbenzene                      | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 104-51-8   |      |
| sec-Butylbenzene                    | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 135-98-8   |      |
| tert-Butylbenzene                   | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 98-06-6    |      |
| Carbon tetrachloride                | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 56-23-5    |      |
| Chlorobenzene                       | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 108-90-7   |      |
| Chloroethane                        | ND ug/kg |   | 11.2         | 1  |                | 12/16/11 17:13 | 75-00-3    |      |
| Chloroform                          | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 67-66-3    |      |
| Chloromethane                       | ND ug/kg |   | 11.2         | 1  |                | 12/16/11 17:13 | 74-87-3    |      |
| 2-Chlorotoluene                     | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 95-49-8    |      |
| 4-Chlorotoluene                     | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane         | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 96-12-8    |      |
| Dibromochloromethane                | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)             | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 106-93-4   |      |
| Dibromomethane                      | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 74-95-3    |      |
| 1,2-Dichlorobenzene                 | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 95-50-1    |      |
| 1,3-Dichlorobenzene                 | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 541-73-1   |      |
| 1,4-Dichlorobenzene                 | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 106-46-7   |      |
| Dichlorodifluoromethane             | ND ug/kg |   | 11.2         | 1  |                | 12/16/11 17:13 | 75-71-8    |      |
| 1,1-Dichloroethane                  | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 75-34-3    |      |
| 1,2-Dichloroethane                  | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 107-06-2   |      |
| 1,1-Dichloroethene                  | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 75-35-4    |      |
| cis-1,2-Dichloroethene              | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 156-59-2   |      |
| trans-1,2-Dichloroethene            | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 156-60-5   |      |
| 1,2-Dichloropropane                 | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 78-87-5    |      |
| 1,3-Dichloropropane                 | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 142-28-9   |      |
| 2,2-Dichloropropane                 | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 594-20-7   |      |
| 1,1-Dichloropropene                 | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 563-58-6   |      |
| cis-1,3-Dichloropropene             | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 10061-01-5 |      |
| trans-1,3-Dichloropropene           | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 10061-02-6 |      |
| Diisopropyl ether                   | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 108-20-3   |      |
| Ethylbenzene                        | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 100-41-4   |      |
| Hexachloro-1,3-butadiene            | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 87-68-3    |      |
| 2-Hexanone                          | ND ug/kg |   | 56.1         | 1  |                | 12/16/11 17:13 | 591-78-6   |      |
| Isopropylbenzene (Cumene)           | ND ug/kg |   | 5.6          | 1  |                | 12/16/11 17:13 | 98-82-8    |      |

## ANALYTICAL RESULTS

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

**Sample: P20-UST-2 (6')**      **Lab ID: 92108091002**      Collected: 12/08/11 11:50      Received: 12/08/11 15:21      Matrix: Solid

**Results reported on a "dry-weight" basis**

| Parameters                          | Results       | Units                            | Report Limit | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-------------------------------------|---------------|----------------------------------|--------------|----|----------|----------------|-------------|------|
| <b>8260/5035A Volatile Organics</b> |               | Analytical Method: EPA 8260      |              |    |          |                |             |      |
| p-Isopropyltoluene                  | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 99-87-6     |      |
| Methylene Chloride                  | ND            | ug/kg                            | 22.4         | 1  |          | 12/16/11 17:13 | 75-09-2     |      |
| 4-Methyl-2-pentanone (MIBK)         | ND            | ug/kg                            | 56.1         | 1  |          | 12/16/11 17:13 | 108-10-1    |      |
| Methyl-tert-butyl ether             | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 1634-04-4   |      |
| Naphthalene                         | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 91-20-3     |      |
| n-Propylbenzene                     | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 103-65-1    |      |
| Styrene                             | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane           | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane           | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 79-34-5     |      |
| Tetrachloroethene                   | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 127-18-4    |      |
| Toluene                             | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene              | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene              | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 120-82-1    |      |
| 1,1,1-Trichloroethane               | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 71-55-6     |      |
| 1,1,2-Trichloroethane               | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 79-00-5     |      |
| Trichloroethene                     | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 79-01-6     |      |
| Trichlorofluoromethane              | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 75-69-4     |      |
| 1,2,3-Trichloropropane              | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene              | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene              | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 108-67-8    |      |
| Vinyl acetate                       | ND            | ug/kg                            | 56.1         | 1  |          | 12/16/11 17:13 | 108-05-4    |      |
| Vinyl chloride                      | ND            | ug/kg                            | 11.2         | 1  |          | 12/16/11 17:13 | 75-01-4     |      |
| Xylene (Total)                      | ND            | ug/kg                            | 11.2         | 1  |          | 12/16/11 17:13 | 1330-20-7   |      |
| m&p-Xylene                          | ND            | ug/kg                            | 11.2         | 1  |          | 12/16/11 17:13 | 179601-23-1 |      |
| o-Xylene                            | ND            | ug/kg                            | 5.6          | 1  |          | 12/16/11 17:13 | 95-47-6     |      |
| <b>Surrogates</b>                   |               |                                  |              |    |          |                |             |      |
| Dibromofluoromethane (S)            | 110 %         |                                  | 70-130       | 1  |          | 12/16/11 17:13 | 1868-53-7   |      |
| Toluene-d8 (S)                      | 104 %         |                                  | 70-130       | 1  |          | 12/16/11 17:13 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)            | 96 %          |                                  | 70-130       | 1  |          | 12/16/11 17:13 | 460-00-4    |      |
| 1,2-Dichloroethane-d4 (S)           | 107 %         |                                  | 70-132       | 1  |          | 12/16/11 17:13 | 17060-07-0  |      |
| <b>Percent Moisture</b>             |               | Analytical Method: ASTM D2974-87 |              |    |          |                |             |      |
| Percent Moisture                    | <b>21.8 %</b> |                                  | 0.10         | 1  |          | 12/09/11 13:52 |             |      |



### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

QC Batch: GCV/5586 Analysis Method: MADEP VPH  
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil  
Associated Lab Samples: 92108091001, 92108091002

METHOD BLANK: 698197 Matrix: Solid

Associated Lab Samples: 92108091001, 92108091002

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| Aliphatic (C05-C08)         | mg/kg | ND           | 2.4             | 12/10/11 10:26 | N2         |
| Aliphatic (C09-C12)         | mg/kg | ND           | 2.4             | 12/10/11 10:26 | N2         |
| Aromatic (C09-C10)          | mg/kg | ND           | 2.4             | 12/10/11 10:26 | N2         |
| 2,5-Dibromotoluene (FID)(S) | %     | 95           | 70-130          | 12/10/11 10:26 |            |
| 2,5-Dibromotoluene (PID)(S) | %     | 70           | 70-130          | 12/10/11 10:26 |            |

METHOD BLANK: 699776 Matrix: Solid

Associated Lab Samples: 92108091001, 92108091002

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| Aliphatic (C05-C08)         | mg/kg | ND           | 2.4             | 12/14/11 18:43 | N2         |
| Aliphatic (C09-C12)         | mg/kg | ND           | 2.4             | 12/14/11 18:43 | N2         |
| Aromatic (C09-C10)          | mg/kg | ND           | 2.4             | 12/14/11 18:43 | N2         |
| 2,5-Dibromotoluene (FID)(S) | %     | 109          | 70-130          | 12/14/11 18:43 |            |
| 2,5-Dibromotoluene (PID)(S) | %     | 97           | 70-130          | 12/14/11 18:43 |            |

LABORATORY CONTROL SAMPLE & LCSD: 698198 698199

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Aliphatic (C05-C08)         | mg/kg | 14.2        | 16.4       | 17.0        | 115       | 120        | 70-130       | 4   | 25      | N2         |
| Aliphatic (C09-C12)         | mg/kg | 14.2        | 15.5       | 16.4        | 109       | 115        | 30-130       | 6   | 25      | N2         |
| Aromatic (C09-C10)          | mg/kg | 4.7         | 4.1        | 4.3         | 87        | 91         | 70-130       | 4   | 25      | N2         |
| 2,5-Dibromotoluene (FID)(S) | %     |             |            |             | 84        | 104        | 70-130       |     |         |            |
| 2,5-Dibromotoluene (PID)(S) | %     |             |            |             | 83        | 97         | 70-130       |     |         |            |

LABORATORY CONTROL SAMPLE & LCSD: 699777 699778

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Aliphatic (C05-C08)         | mg/kg | 14.5        | 15.4       | 15.1        | 107       | 104        | 70-130       | 2   | 25      | N2         |
| Aliphatic (C09-C12)         | mg/kg | 14.5        | 16.0       | 15.6        | 111       | 108        | 30-130       | 2   | 25      | N2         |
| Aromatic (C09-C10)          | mg/kg | 4.8         | 5.1        | 5.0         | 106       | 104        | 70-130       | 2   | 25      | N2         |
| 2,5-Dibromotoluene (FID)(S) | %     |             |            |             | 106       | 105        | 70-130       |     |         |            |
| 2,5-Dibromotoluene (PID)(S) | %     |             |            |             | 109       | 107        | 70-130       |     |         |            |

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

QC Batch: MSV/17671

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 92108091001, 92108091002

METHOD BLANK: 700931

Matrix: Solid

Associated Lab Samples: 92108091001, 92108091002

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 113             | 12/16/11 12:13 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 2-Hexanone                  | ug/kg | ND           | 56.4            | 12/16/11 12:13 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 56.4            | 12/16/11 12:13 |            |
| Acetone                     | ug/kg | ND           | 113             | 12/16/11 12:13 |            |
| Benzene                     | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Bromobenzene                | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Bromochloromethane          | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Bromoform                   | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Bromomethane                | ug/kg | ND           | 11.3            | 12/16/11 12:13 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Chlorobenzene               | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Chloroethane                | ug/kg | ND           | 11.3            | 12/16/11 12:13 |            |
| Chloroform                  | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Chloromethane               | ug/kg | ND           | 11.3            | 12/16/11 12:13 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Dibromomethane              | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 11.3            | 12/16/11 12:13 |            |

Date: 12/19/2011 05:17 PM

### REPORT OF LABORATORY ANALYSIS

Page 19 of 32

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Project No.: 92108091

METHOD BLANK: 700931

Matrix: Solid

Associated Lab Samples: 92108091001, 92108091002

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Diisopropyl ether         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Ethylbenzene              | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Hexachloro-1,3-butadiene  | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Isopropylbenzene (Cumene) | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| m&p-Xylene                | ug/kg | ND           | 11.3            | 12/16/11 12:13 |            |
| Methyl-tert-butyl ether   | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Methylene Chloride        | ug/kg | ND           | 22.6            | 12/16/11 12:13 |            |
| n-Butylbenzene            | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| n-Propylbenzene           | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Naphthalene               | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| o-Xylene                  | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| p-Isopropyltoluene        | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| sec-Butylbenzene          | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Styrene                   | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| tert-Butylbenzene         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Tetrachloroethene         | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Toluene                   | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| trans-1,2-Dichloroethene  | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| trans-1,3-Dichloropropene | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Trichloroethene           | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Trichlorofluoromethane    | ug/kg | ND           | 5.6             | 12/16/11 12:13 |            |
| Vinyl acetate             | ug/kg | ND           | 56.4            | 12/16/11 12:13 |            |
| Vinyl chloride            | ug/kg | ND           | 11.3            | 12/16/11 12:13 |            |
| Xylene (Total)            | ug/kg | ND           | 11.3            | 12/16/11 12:13 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 112          | 70-132          | 12/16/11 12:13 |            |
| 4-Bromofluorobenzene (S)  | %     | 92           | 70-130          | 12/16/11 12:13 |            |
| Dibromofluoromethane (S)  | %     | 113          | 70-130          | 12/16/11 12:13 |            |
| Toluene-d8 (S)            | %     | 101          | 70-130          | 12/16/11 12:13 |            |

LABORATORY CONTROL SAMPLE: 700932

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | 56.2        | 65.9       | 117       | 70-131       |            |
| 1,1,1-Trichloroethane       | ug/kg | 56.2        | 63.4       | 113       | 70-141       |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | 56.2        | 66.7       | 119       | 70-130       |            |
| 1,1,2-Trichloroethane       | ug/kg | 56.2        | 63.8       | 114       | 70-132       |            |
| 1,1-Dichloroethane          | ug/kg | 56.2        | 61.7       | 110       | 70-143       |            |
| 1,1-Dichloroethene          | ug/kg | 56.2        | 66.1       | 118       | 70-137       |            |
| 1,1-Dichloropropene         | ug/kg | 56.2        | 66.4       | 118       | 70-135       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 56.2        | 61.0       | 109       | 69-153       |            |
| 1,2,3-Trichloropropane      | ug/kg | 56.2        | 63.3       | 113       | 70-130       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 56.2        | 64.4       | 115       | 55-171       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 56.2        | 68.2       | 121       | 70-149       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 56.2        | 58.6       | 104       | 68-141       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 56.2        | 64.7       | 115       | 70-130       |            |

Date: 12/19/2011 05:17 PM

### REPORT OF LABORATORY ANALYSIS

Page 20 of 32

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

LABORATORY CONTROL SAMPLE: 700932

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dichlorobenzene         | ug/kg | 56.2        | 64.6       | 115       | 70-140       |            |
| 1,2-Dichloroethane          | ug/kg | 56.2        | 65.0       | 116       | 70-137       |            |
| 1,2-Dichloropropane         | ug/kg | 56.2        | 64.1       | 114       | 70-133       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 56.2        | 68.0       | 121       | 70-143       |            |
| 1,3-Dichlorobenzene         | ug/kg | 56.2        | 68.7       | 122       | 70-144       |            |
| 1,3-Dichloropropane         | ug/kg | 56.2        | 63.6       | 113       | 70-132       |            |
| 1,4-Dichlorobenzene         | ug/kg | 56.2        | 67.1       | 119       | 70-142       |            |
| 2,2-Dichloropropane         | ug/kg | 56.2        | 65.8       | 117       | 68-152       |            |
| 2-Butanone (MEK)            | ug/kg | 112         | 134        | 119       | 70-149       |            |
| 2-Chlorotoluene             | ug/kg | 56.2        | 68.1       | 121       | 70-141       |            |
| 2-Hexanone                  | ug/kg | 112         | 128        | 114       | 70-149       |            |
| 4-Chlorotoluene             | ug/kg | 56.2        | 71.3       | 127       | 70-149       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 112         | 123        | 110       | 70-153       |            |
| Acetone                     | ug/kg | 112         | 119        | 106       | 70-157       |            |
| Benzene                     | ug/kg | 56.2        | 66.6       | 119       | 70-130       |            |
| Bromobenzene                | ug/kg | 56.2        | 64.6       | 115       | 70-141       |            |
| Bromochloromethane          | ug/kg | 56.2        | 59.8       | 106       | 70-149       |            |
| Bromodichloromethane        | ug/kg | 56.2        | 62.4       | 111       | 70-130       |            |
| Bromoform                   | ug/kg | 56.2        | 64.8       | 115       | 70-131       |            |
| Bromomethane                | ug/kg | 56.2        | 64.3       | 114       | 64-136       | F3         |
| Carbon tetrachloride        | ug/kg | 56.2        | 66.5       | 118       | 70-154       |            |
| Chlorobenzene               | ug/kg | 56.2        | 66.8       | 119       | 70-135       |            |
| Chloroethane                | ug/kg | 56.2        | 74.1       | 132       | 68-151       |            |
| Chloroform                  | ug/kg | 56.2        | 64.7       | 115       | 70-130       |            |
| Chloromethane               | ug/kg | 56.2        | 68.1       | 121       | 70-132       | F3         |
| cis-1,2-Dichloroethene      | ug/kg | 56.2        | 59.8       | 106       | 70-140       |            |
| cis-1,3-Dichloropropene     | ug/kg | 56.2        | 65.6       | 117       | 70-137       |            |
| Dibromochloromethane        | ug/kg | 56.2        | 63.0       | 112       | 70-130       |            |
| Dibromomethane              | ug/kg | 56.2        | 61.9       | 110       | 70-136       |            |
| Dichlorodifluoromethane     | ug/kg | 56.2        | 74.0       | 132       | 36-148       |            |
| Diisopropyl ether           | ug/kg | 56.2        | 59.1       | 105       | 70-139       |            |
| Ethylbenzene                | ug/kg | 56.2        | 67.7       | 121       | 70-137       |            |
| Hexachloro-1,3-butadiene    | ug/kg | 56.2        | 62.7       | 112       | 70-145       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 56.2        | 68.4       | 122       | 70-141       |            |
| m&p-Xylene                  | ug/kg | 112         | 136        | 121       | 70-140       |            |
| Methyl-tert-butyl ether     | ug/kg | 56.2        | 58.0       | 103       | 45-150       |            |
| Methylene Chloride          | ug/kg | 56.2        | 72.8       | 130       | 70-133       |            |
| n-Butylbenzene              | ug/kg | 56.2        | 68.9       | 123       | 65-155       |            |
| n-Propylbenzene             | ug/kg | 56.2        | 65.4       | 116       | 70-148       |            |
| Naphthalene                 | ug/kg | 56.2        | 64.4       | 115       | 70-148       |            |
| o-Xylene                    | ug/kg | 56.2        | 65.3       | 116       | 70-141       |            |
| p-Isopropyltoluene          | ug/kg | 56.2        | 70.9       | 126       | 70-148       |            |
| sec-Butylbenzene            | ug/kg | 56.2        | 67.1       | 119       | 70-145       |            |
| Styrene                     | ug/kg | 56.2        | 68.3       | 122       | 70-138       |            |
| tert-Butylbenzene           | ug/kg | 56.2        | 63.3       | 113       | 70-143       |            |
| Tetrachloroethene           | ug/kg | 56.2        | 66.5       | 118       | 70-140       |            |
| Toluene                     | ug/kg | 56.2        | 65.1       | 116       | 70-130       |            |
| trans-1,2-Dichloroethene    | ug/kg | 56.2        | 61.2       | 109       | 70-136       |            |

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

LABORATORY CONTROL SAMPLE: 700932

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| trans-1,3-Dichloropropene | ug/kg | 56.2        | 64.5       | 115       | 70-138       |            |
| Trichloroethene           | ug/kg | 56.2        | 69.6       | 124       | 70-132       |            |
| Trichlorofluoromethane    | ug/kg | 56.2        | 72.0       | 128       | 69-134       |            |
| Vinyl acetate             | ug/kg | 112         | 142        | 127       | 24-161       |            |
| Vinyl chloride            | ug/kg | 56.2        | 75.1       | 134       | 55-140       |            |
| Xylene (Total)            | ug/kg | 169         | 201        | 119       | 70-141       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 104       | 70-132       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 99        | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 101       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 101       | 70-130       |            |

MATRIX SPIKE SAMPLE: 701489

| Parameter                 | Units | 92108156002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,1-Dichloroethene        | ug/kg | ND                 | 52.5        | 54.7      | 104      | 49-180       |            |
| Benzene                   | ug/kg | ND                 | 52.5        | 47.5      | 90       | 50-166       |            |
| Chlorobenzene             | ug/kg | ND                 | 52.5        | 56.8      | 108      | 43-169       |            |
| Toluene                   | ug/kg | ND                 | 52.5        | 54.3      | 103      | 52-163       |            |
| Trichloroethene           | ug/kg | ND                 | 52.5        | 54.3      | 103      | 49-167       |            |
| 1,2-Dichloroethane-d4 (S) | %     |                    |             |           | 108      | 70-132       |            |
| 4-Bromofluorobenzene (S)  | %     |                    |             |           | 99       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |                    |             |           | 107      | 70-130       |            |
| Toluene-d8 (S)            | %     |                    |             |           | 101      | 70-130       |            |

SAMPLE DUPLICATE: 701488

| Parameter                   | Units | 92108091002 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         |     |            |
| 1,2-Dichloropropane         | ug/kg | ND                 | ND         |     |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND                 | ND         |     |            |
| 1,3-Dichlorobenzene         | ug/kg | ND                 | ND         |     |            |

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

SAMPLE DUPLICATE: 701488

| Parameter                   | Units | 92108091002<br>Result | Dup<br>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 | ND                    | 82.7J         |     |            |
| 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            |     |            |



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

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

SAMPLE DUPLICATE: 701488

| Parameter                 | Units | 92108091002<br>Result | Dup<br>Result | RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|
| Xylene (Total)            | ug/kg | ND                    | ND            |     |            |
| 1,2-Dichloroethane-d4 (S) | %     | 107                   | 110           | 8   |            |
| 4-Bromofluorobenzene (S)  | %     | 96                    | 97            | 8   |            |
| Dibromofluoromethane (S)  | %     | 110                   | 119           | 2   |            |
| Toluene-d8 (S)            | %     | 104                   | 103           | 12  |            |

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

QC Batch: OEXT/15822 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave  
Associated Lab Samples: 92108091001, 92108091002

METHOD BLANK: 697504 Matrix: Solid

Associated Lab Samples: 92108091001, 92108091002

| Parameter                    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 1,2-Dichlorobenzene          | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 1,3-Dichlorobenzene          | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 1,4-Dichlorobenzene          | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 1-Methylnaphthalene          | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2,4,5-Trichlorophenol        | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2,4,6-Trichlorophenol        | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2,4-Dichlorophenol           | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2,4-Dimethylphenol           | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2,4-Dinitrophenol            | ug/kg | ND           | 1650            | 12/12/11 11:00 |            |
| 2,4-Dinitrotoluene           | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2,6-Dinitrotoluene           | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2-Chloronaphthalene          | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2-Chlorophenol               | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2-Methylnaphthalene          | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2-Nitroaniline               | ug/kg | ND           | 1650            | 12/12/11 11:00 |            |
| 2-Nitrophenol                | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 3,3'-Dichlorobenzidine       | ug/kg | ND           | 1650            | 12/12/11 11:00 |            |
| 3-Nitroaniline               | ug/kg | ND           | 1650            | 12/12/11 11:00 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | ND           | 660             | 12/12/11 11:00 |            |
| 4-Bromophenylphenyl ether    | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 4-Chloro-3-methylphenol      | ug/kg | ND           | 660             | 12/12/11 11:00 |            |
| 4-Chloroaniline              | ug/kg | ND           | 1650            | 12/12/11 11:00 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 4-Nitroaniline               | ug/kg | ND           | 660             | 12/12/11 11:00 |            |
| 4-Nitrophenol                | ug/kg | ND           | 1650            | 12/12/11 11:00 |            |
| Acenaphthene                 | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Acenaphthylene               | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Aniline                      | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Anthracene                   | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Benzo(a)anthracene           | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Benzo(a)pyrene               | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Benzo(b)fluoranthene         | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Benzo(g,h,i)perylene         | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Benzo(k)fluoranthene         | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Benzoic Acid                 | ug/kg | ND           | 1650            | 12/12/11 11:00 |            |
| Benzyl alcohol               | ug/kg | ND           | 660             | 12/12/11 11:00 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| bis(2-Chloroethyl) ether     | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | ND           | 330             | 12/12/11 11:00 |            |

Date: 12/19/2011 05:17 PM

### REPORT OF LABORATORY ANALYSIS

Page 25 of 32

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

METHOD BLANK: 697504

Matrix: Solid

Associated Lab Samples: 92108091001, 92108091002

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Butylbenzylphthalate       | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Chrysene                   | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Di-n-butylphthalate        | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Di-n-octylphthalate        | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Dibenz(a,h)anthracene      | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Dibenzofuran               | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Diethylphthalate           | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Dimethylphthalate          | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Fluoranthene               | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Fluorene                   | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Hexachloro-1,3-butadiene   | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Hexachlorobenzene          | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Hexachlorocyclopentadiene  | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Hexachloroethane           | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Isophorone                 | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| N-Nitroso-di-n-propylamine | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| N-Nitrosodimethylamine     | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| N-Nitrosodiphenylamine     | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Naphthalene                | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Nitrobenzene               | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Pentachlorophenol          | ug/kg | ND           | 1650            | 12/12/11 11:00 |            |
| Phenanthrene               | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Phenol                     | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| Pyrene                     | ug/kg | ND           | 330             | 12/12/11 11:00 |            |
| 2,4,6-Tribromophenol (S)   | %     | 77           | 27-110          | 12/12/11 11:00 |            |
| 2-Fluorobiphenyl (S)       | %     | 74           | 30-110          | 12/12/11 11:00 |            |
| 2-Fluorophenol (S)         | %     | 72           | 13-110          | 12/12/11 11:00 |            |
| Nitrobenzene-d5 (S)        | %     | 56           | 23-110          | 12/12/11 11:00 |            |
| Phenol-d6 (S)              | %     | 74           | 22-110          | 12/12/11 11:00 |            |
| Terphenyl-d14 (S)          | %     | 92           | 28-110          | 12/12/11 11:00 |            |

LABORATORY CONTROL SAMPLE: 697505

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene | ug/kg | 1670        | 1190       | 71        | 39-101       |            |
| 1,2-Dichlorobenzene    | ug/kg | 1670        | 1330       | 80        | 36-110       |            |
| 1,3-Dichlorobenzene    | ug/kg | 1670        | 1290       | 78        | 35-110       |            |
| 1,4-Dichlorobenzene    | ug/kg | 1670        | 1300       | 78        | 35-110       |            |
| 1-Methylnaphthalene    | ug/kg | 1670        | 1260       | 76        | 45-105       |            |
| 2,4,5-Trichlorophenol  | ug/kg | 1670        | 1200       | 72        | 48-109       |            |
| 2,4,6-Trichlorophenol  | ug/kg | 1670        | 1380       | 83        | 45-111       |            |
| 2,4-Dichlorophenol     | ug/kg | 1670        | 1240       | 75        | 51-116       |            |
| 2,4-Dimethylphenol     | ug/kg | 1670        | 1360       | 82        | 42-103       |            |
| 2,4-Dinitrophenol      | ug/kg | 8330        | 6710       | 81        | 28-103       |            |

Date: 12/19/2011 05:17 PM

### REPORT OF LABORATORY ANALYSIS

Page 26 of 32

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

LABORATORY CONTROL SAMPLE: 697505

| Parameter                    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2,4-Dinitrotoluene           | ug/kg | 1670        | 1620       | 97        | 46-114       |            |
| 2,6-Dinitrotoluene           | ug/kg | 1670        | 1550       | 93        | 48-112       |            |
| 2-Chloronaphthalene          | ug/kg | 1670        | 1380       | 83        | 44-105       |            |
| 2-Chlorophenol               | ug/kg | 1670        | 1530       | 92        | 36-110       |            |
| 2-Methylnaphthalene          | ug/kg | 1670        | 1270       | 76        | 39-112       |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | 1670        | 1290       | 78        | 39-101       |            |
| 2-Nitroaniline               | ug/kg | 3330        | 2640       | 79        | 44-111       |            |
| 2-Nitrophenol                | ug/kg | 1670        | 1360       | 82        | 41-100       |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | 1670        | 1320       | 79        | 43-103       |            |
| 3,3'-Dichlorobenzidine       | ug/kg | 3330        | 2900       | 87        | 10-150       |            |
| 3-Nitroaniline               | ug/kg | 3330        | 3140       | 94        | 35-110       |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | 3330        | 3240       | 97        | 38-118       |            |
| 4-Bromophenylphenyl ether    | ug/kg | 1670        | 1360       | 81        | 47-115       |            |
| 4-Chloro-3-methylphenol      | ug/kg | 3330        | 2470       | 74        | 43-127       |            |
| 4-Chloroaniline              | ug/kg | 3330        | 2610       | 78        | 34-109       |            |
| 4-Chlorophenylphenyl ether   | ug/kg | 1670        | 1330       | 80        | 44-115       |            |
| 4-Nitroaniline               | ug/kg | 3330        | 3510       | 105       | 37-111       |            |
| 4-Nitrophenol                | ug/kg | 8330        | 6110       | 73        | 21-152       |            |
| Acenaphthene                 | ug/kg | 1670        | 1380       | 83        | 38-117       |            |
| Acenaphthylene               | ug/kg | 1670        | 1350       | 81        | 46-107       |            |
| Aniline                      | ug/kg | 1670        | 1330       | 80        | 29-110       |            |
| Anthracene                   | ug/kg | 1670        | 1410       | 85        | 50-110       |            |
| Benzo(a)anthracene           | ug/kg | 1670        | 1480       | 89        | 47-116       |            |
| Benzo(a)pyrene               | ug/kg | 1670        | 1440       | 86        | 47-106       |            |
| Benzo(b)fluoranthene         | ug/kg | 1670        | 1340       | 80        | 47-109       |            |
| Benzo(g,h,i)perylene         | ug/kg | 1670        | 1440       | 86        | 39-115       |            |
| Benzo(k)fluoranthene         | ug/kg | 1670        | 1440       | 87        | 45-117       |            |
| Benzoic Acid                 | ug/kg | 8330        | 4260       | 51        | 16-110       |            |
| Benzyl alcohol               | ug/kg | 3330        | 2810       | 84        | 38-105       |            |
| bis(2-Chloroethoxy)methane   | ug/kg | 1670        | 1180       | 71        | 39-110       |            |
| bis(2-Chloroethyl) ether     | ug/kg | 1670        | 1400       | 84        | 19-119       |            |
| bis(2-Chloroisopropyl) ether | ug/kg | 1670        | 1270       | 76        | 21-110       |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | 1670        | 1550       | 93        | 35-116       |            |
| Butylbenzylphthalate         | ug/kg | 1670        | 1580       | 95        | 38-110       |            |
| Chrysene                     | ug/kg | 1670        | 1510       | 90        | 49-110       |            |
| Di-n-butylphthalate          | ug/kg | 1670        | 1480       | 89        | 43-109       |            |
| Di-n-octylphthalate          | ug/kg | 1670        | 1540       | 93        | 37-109       |            |
| Dibenz(a,h)anthracene        | ug/kg | 1670        | 1450       | 87        | 43-116       |            |
| Dibenzofuran                 | ug/kg | 1670        | 1380       | 83        | 45-106       |            |
| Diethylphthalate             | ug/kg | 1670        | 1430       | 86        | 41-114       |            |
| Dimethylphthalate            | ug/kg | 1670        | 1370       | 82        | 43-110       |            |
| Fluoranthene                 | ug/kg | 1670        | 1430       | 86        | 50-114       |            |
| Fluorene                     | ug/kg | 1670        | 1370       | 82        | 46-114       |            |
| Hexachloro-1,3-butadiene     | ug/kg | 1670        | 1040       | 62        | 28-111       |            |
| Hexachlorobenzene            | ug/kg | 1670        | 1410       | 84        | 46-120       |            |
| Hexachlorocyclopentadiene    | ug/kg | 1670        | 1380       | 83        | 18-119       |            |
| Hexachloroethane             | ug/kg | 1670        | 1310       | 78        | 33-110       |            |
| Indeno(1,2,3-cd)pyrene       | ug/kg | 1670        | 1410       | 84        | 42-115       |            |

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

LABORATORY CONTROL SAMPLE: 697505

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Isophorone                 | ug/kg | 1670        | 1190       | 72        | 44-109       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1670        | 1310       | 79        | 43-104       |            |
| N-Nitrosodimethylamine     | ug/kg | 1670        | 1470       | 88        | 29-110       |            |
| N-Nitrosodiphenylamine     | ug/kg | 1670        | 1410       | 85        | 48-113       |            |
| Naphthalene                | ug/kg | 1670        | 1240       | 74        | 41-110       |            |
| Nitrobenzene               | ug/kg | 1670        | 1080       | 65        | 38-110       |            |
| Pentachlorophenol          | ug/kg | 3330        | 3430       | 103       | 32-128       |            |
| Phenanthrene               | ug/kg | 1670        | 1310       | 79        | 50-110       |            |
| Phenol                     | ug/kg | 1670        | 1560       | 94        | 28-106       |            |
| Pyrene                     | ug/kg | 1670        | 1470       | 88        | 45-114       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 99        | 27-110       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 75        | 30-110       |            |
| 2-Fluorophenol (S)         | %     |             |            | 85        | 13-110       |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 63        | 23-110       |            |
| Phenol-d6 (S)              | %     |             |            | 86        | 22-110       |            |
| Terphenyl-d14 (S)          | %     |             |            | 91        | 28-110       |            |

### QUALITY CONTROL DATA

Project: BURKE CO WBS# 34832.1.1

Pace Project No.: 92108091

QC Batch: OEXT/15848 Analysis Method: MADEP EPH  
 QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil  
 Associated Lab Samples: 92108091001, 92108091002

METHOD BLANK: 698643 Matrix: Solid

Associated Lab Samples: 92108091001, 92108091002

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Aliphatic (C09-C18)    | mg/kg | ND           | 10.1            | 12/15/11 17:06 | N2         |
| Aliphatic (C19-C36)    | mg/kg | ND           | 10.1            | 12/15/11 17:06 | N2         |
| Aromatic (C11-C22)     | mg/kg | ND           | 10.1            | 12/15/11 17:06 | N2         |
| 2-Bromonaphthalene (S) | %     | 99           | 40-140          | 12/15/11 17:06 |            |
| 2-Fluorobiphenyl (S)   | %     | 96           | 40-140          | 12/15/11 17:06 |            |
| Nonatriacontane (S)    | %     | 74           | 40-140          | 12/15/11 17:06 |            |
| o-Terphenyl (S)        | %     | 77           | 40-140          | 12/15/11 17:06 |            |

LABORATORY CONTROL SAMPLE & LCSD: 698644

698645

| Parameter              | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Aliphatic (C09-C18)    | mg/kg | 9.9         | ND         | ND          | 76        | 74         | 40-140       |     | 50      | N2         |
| Aliphatic (C19-C36)    | mg/kg | 13.2        | 10.4       | 10.7        | 78        | 81         | 40-140       | 4   | 50      | N2         |
| Aromatic (C11-C22)     | mg/kg | 28.1        | 25.2       | 24.6        | 89        | 87         | 40-140       | 2   | 50      | N2         |
| 2-Bromonaphthalene (S) | %     |             |            |             | 103       | 102        | 40-140       |     |         |            |
| 2-Fluorobiphenyl (S)   | %     |             |            |             | 103       | 99         | 40-140       |     |         |            |
| Nonatriacontane (S)    | %     |             |            |             | 91        | 95         | 40-140       |     |         |            |
| o-Terphenyl (S)        | %     |             |            |             | 87        | 79         | 40-140       |     |         |            |



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

**QUALITY CONTROL DATA**

Project: BURKE CO WBS# 34832.1.1  
 Pace Project No.: 92108091

QC Batch: PMST/4375 Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 92108091001, 92108091002

SAMPLE DUPLICATE: 697544

| Parameter        | Units | 92108108001<br>Result | Dup<br>Result | RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|
| Percent Moisture | %     | 25.9                  | 26.3          | 2   |            |

SAMPLE DUPLICATE: 697545

| Parameter        | Units | 92108057003<br>Result | Dup<br>Result | RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|
| Percent Moisture | %     | 25.8                  | 25.5          | 1   |            |

## QUALIFIERS

Project: BURKE CO WBS# 34832.1.1  
Pace Project No.: 92108091

### 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.

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.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

- 1g Surrogate fails after Moisture Correction for Methanol.
- F3 The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
- N2 The lab does not hold TNI accreditation for this parameter.
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.



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

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BURKE CO WBS# 34832.1.1  
 Pace Project No.: 92108091

| Lab ID      | Sample ID      | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|-------------|----------------|-----------------|------------|-------------------|------------------|
| 92108091001 | P20-UST-1 (6') | MADEP EPH       | OEXT/15848 | MADEP EPH         | GCSV/11046       |
| 92108091002 | P20-UST-2 (6') | MADEP EPH       | OEXT/15848 | MADEP EPH         | GCSV/11046       |
| 92108091001 | P20-UST-1 (6') | MADEP VPH       | GCV/5586   | MADEP VPH         | GCV/5594         |
| 92108091002 | P20-UST-2 (6') | MADEP VPH       | GCV/5586   | MADEP VPH         | GCV/5594         |
| 92108091001 | P20-UST-1 (6') | EPA 3546        | OEXT/15822 | EPA 8270          | MSSV/5793        |
| 92108091002 | P20-UST-2 (6') | EPA 3546        | OEXT/15822 | EPA 8270          | MSSV/5793        |
| 92108091001 | P20-UST-1 (6') | EPA 8260        | MSV/17671  |                   |                  |
| 92108091002 | P20-UST-2 (6') | EPA 8260        | MSV/17671  |                   |                  |
| 92108091001 | P20-UST-1 (6') | ASTM D2974-87   | PMST/4375  |                   |                  |
| 92108091002 | P20-UST-2 (6') | ASTM D2974-87   | PMST/4375  |                   |                  |



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1  
1498151

|  |                                   |  |                                  |   |   |
|--|-----------------------------------|--|----------------------------------|---|---|
| <b>Section A</b><br>Required Client Information: |                                   | <b>Section B</b><br>Required Project Information:  |                                  | <b>Section C</b><br>Invoice Information:                    |   |
| Company: AMEC                                    | Report To: Helen Corley@amec.com  | Attention: Terry Fox   | Company Name: WOOT               | Address: 1581 May 13 <sup>th</sup> Drive Center Raleigh, NC | REGULATORY AGENCY: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER |
| Address: 2801 Yorkmont Rd Ste 100 Charlotte, NC  | Copy To: Troy.Helzlsouer@amec.com | Address: 1581 May 13 <sup>th</sup> Drive Center Raleigh, NC  | Reference: WBS Element 34832.1.1 | Reference: WBS Element 34832.1.1                            | <input checked="" type="checkbox"/> UST <input type="checkbox"/> RORA <input type="checkbox"/> OTHER                            |
| Email To: Helen Corley@amec.com                  | Purchase Order No.:               | Site Location: <input type="checkbox"/> UST <input type="checkbox"/> RORA <input type="checkbox"/> OTHER | Phone: 704-357-8000              | Project Name: Burkels - Morganton                           | Requested Analysis: Filtered (Y/N)  |
| Phone: 704-357-8000                              | Project Number: 566722551         | Requested Analysis: Filtered (Y/N)   | Fax: 704-357-8000                | Project Number: 566722551                                   | State: NC   |
| Requested Due Date/TAT:                          |                                   |  |                                  |   |   |

| ITEM # | Section D<br>Required Client Information | Matrix Codes<br>MATRIX / CODE | COLLECTED       |                    | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   | Analysis Test | Requested Analysis: Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab ID. |
|--------|--|-------------------------------|-----------------|--------------------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|---------------|------------------------------------|-------------------------|---------------------------|
|        |  |                               | COMPOSITE START | COMPOSITE END/GRAB |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |               |                                    |                         |                           |
| 1      | 120-UST-1 (6")                           | SL G                          | 12-8-11         | 1100               | 12.8                      | 1               |               |                                |                  |     |      |   |               |                                    |                         | 02108091                  |
| 2      | 120-UST-2 (6")                           | SL G                          | 12-8-11         | 1150               | 12.8                      | 1               |               |                                |                  |     |      |   |               |                                    |                         | 02108091                  |
| 3      |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 4      |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 5      |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 6      |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 7      |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 8      |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 9      |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 10     |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 11     |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |
| 12     |  |                               |                 |                    |                           |                 |               |                                |                  |     |      |   |               |                                    |                         |                           |

| ADDITIONAL COMMENTS  |                 | RELINQUISHED BY / AFFILIATION |                       | DATE                        |                      | TIME |  | ACCEPTED BY / AFFILIATION |  | DATE    |  | TIME |  | SAMPLE CONDITIONS |  |                            |  |            |                       |                             |                      |                        |                 |  |  |  |  |                       |                 |  |  |  |  |                         |         |  |  |  |  |
|--|-----------------|-------------------------------|-----------------------|-----------------------------|----------------------|------|--|---------------------------|--|---------|--|------|--|-------------------|--|----------------------------|--|------------|-----------------------|-----------------------------|----------------------|------------------------|-----------------|--|--|--|--|-----------------------|-----------------|--|--|--|--|-------------------------|---------|--|--|--|--|
|  |                 | Troy Helzlsouer/AMEC          |                       | 12-8-11                     |                      | 1521 |  | Troy Helzlsouer           |  | 12/8/11 |  | 1521 |  | 1.0 4 4 4         |  |                            |  |            |                       |                             |                      |                        |                 |  |  |  |  |                       |                 |  |  |  |  |                         |         |  |  |  |  |
| <table border="1"> <tr> <th colspan="2">SAMPLER NAME AND SIGNATURE</th> <th>Temp in °C</th> <th>Received on Ice (Y/N)</th> <th>Custody Sealed Cooler (Y/N)</th> <th>Samples Intact (Y/N)</th> </tr> <tr> <td>PRINT Name of SAMPLER:</td> <td>Troy Helzlsouer</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SIGNATURE OF SAMPLER:</td> <td>Troy Helzlsouer</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE Signed (MM/DD/YY):</td> <td>12-8-11</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |                 |                               |                       |                             |                      |      |  |                           |  |         |  |      |  |                   |  | SAMPLER NAME AND SIGNATURE |  | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) | PRINT Name of SAMPLER: | Troy Helzlsouer |  |  |  |  | SIGNATURE OF SAMPLER: | Troy Helzlsouer |  |  |  |  | DATE Signed (MM/DD/YY): | 12-8-11 |  |  |  |  |
| SAMPLER NAME AND SIGNATURE   |                 | Temp in °C                    | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |      |  |                           |  |         |  |      |  |                   |  |                            |  |            |                       |                             |                      |                        |                 |  |  |  |  |                       |                 |  |  |  |  |                         |         |  |  |  |  |
| PRINT Name of SAMPLER:   | Troy Helzlsouer |                               |                       |                             |                      |      |  |                           |  |         |  |      |  |                   |  |                            |  |            |                       |                             |                      |                        |                 |  |  |  |  |                       |                 |  |  |  |  |                         |         |  |  |  |  |
| SIGNATURE OF SAMPLER:  | Troy Helzlsouer |                               |                       |                             |                      |      |  |                           |  |         |  |      |  |                   |  |                            |  |            |                       |                             |                      |                        |                 |  |  |  |  |                       |                 |  |  |  |  |                         |         |  |  |  |  |
| DATE Signed (MM/DD/YY):  | 12-8-11         |                               |                       |                             |                      |      |  |                           |  |         |  |      |  |                   |  |                            |  |            |                       |                             |                      |                        |                 |  |  |  |  |                       |                 |  |  |  |  |                         |         |  |  |  |  |

\*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.

F-ALL-Q-020rev.07, 15-May-2007

ORIGINAL





Document Name: **Sample Condition Upon Receipt (SCUR)** Document Number: **F-CHR-CS-03-rev.05**

Document Date: July 29, 2011 Page 1 of 2

Issuing Authority: Pace Huntersville Quality Office

Client Name: AMEC Project # 92108091

Where Received:  Huntersville  Asheville  Eden

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun T1102 Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Temp Correction Factor Add / Subtract 0 °C

Optional  
 Proj. Due Date:  
 Proj. Name:

Corrected Cooler Temp.: 1.0 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/8/11 [Signature]

| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                     |
|--|--|------------------------|
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                     |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                     |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.                     |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.                     |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 6.                     |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.                     |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.                     |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.                     |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                        |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10.                    |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.                    |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.                    |
| -Includes date/time/ID/Analysis Matrix: <u>SL</u>  |  |                        |
| All containers needing preservation have been checked.                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.                    |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                        |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)  | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Initial when completed |
| Samples checked for dechlorination:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.                    |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.                    |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16.                    |
| Trip Blank Custody Seals Present   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                        |
| Pace Trip Blank Lot # (if purchased):  |  |                        |

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

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

SCURF Review: [Signature] Date: 12/9/11 SRF Review: [Signature] Date: 12/9/11

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)



Document Name: **Sample Condition Upon Receipt (SCUR)** Document Number: **F-CHR-CS-03-rev.05**

Document Date: July 29, 2011 Page 1 of 2

Issuing Authority: Pace Huntersville Quality Office

Client Name: AMEC Project # 92108091

Where Received:  Huntersville  Asheville  Eden

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun T1102 Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Temp Correction Factor Add / Subtract 0 °C

Optional  
Proj. Due Date:  
Proj. Name:

Corrected Cooler Temp.: 1.0 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/8/11 [Signature]

| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                     |
|--|--|------------------------|
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                     |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                     |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.                     |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.                     |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 6.                     |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.                     |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.                     |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.                     |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                        |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10.                    |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.                    |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.                    |
| -Includes date/time/ID/Analysis Matrix: <u>SL</u>  |  |                        |
| All containers needing preservation have been checked.                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.                    |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                        |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)  | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Initial when completed |
| Samples checked for dechlorination:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.                    |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.                    |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16.                    |
| Trip Blank Custody Seals Present   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                        |
| Pace Trip Blank Lot # (if purchased):  |  |                        |

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

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

SCURF Review: [Signature] Date: 12/9/11 SRF Review: [Signature] Date: 12/9/11

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)



## **APPENDIX E**

UST-2 – Site Investigation Report for Permanent Closure or Change in  
Service of UST

UST-3 – Notice of Intent: UST Permanent Closure or Change in  
Service

# UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

**Return completed form to:**

The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY:

I.D. # \_\_\_\_\_

Date Received \_\_\_\_\_

**INSTRUCTIONS (READ THIS FIRST)**

For more than five UST systems you may attach additional forms as needed.

Permanent closure – For permanent closure, complete all sections of this form.

Change-in-service – For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at [www.wastenotnc.org](http://www.wastenotnc.org).

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

**NOTE:** If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

**I. OWNERSHIP OF TANKS**

Owner Name (Corporation, Individual, Public Agency, or Other Entity)  
NC DOT

Street Address  
1589 Mail Service Center

City  
Raleigh County  
Wake

State  
North Carolina Zip Code  
27699

Phone Number  
919-707-6870

**II. LOCATION OF TANKS**

Facility Name or Company  
Vacant Building

Facility ID # (If known)

Street Address  
600 Enola Rd

City  
Morganton County  
Burke Zip Code

Phone Number

**III. CONTACT PERSONNEL**

|   |  |   |
|---|--|---|
| Contact for Facility:<br><u>Terry Fox LG</u>      | Job Title:<br><u>Gen Environmental Project Manager</u> | Phone No:<br><u>919-707-6870</u>                    |
| Closure Contractor Name:<br><u>Tony Disher</u>    | Closure Contractor Company:<br><u>EVO Corp</u>         | Address:<br><u>1703 Vagrav St Winston Salem, NC</u> |
| Primary Consultant Name:<br><u>Troy Holzschuh</u> | Primary Consultant Company:<br><u>AMEC</u>             | Address:<br><u>2201 Parkmont Rd Charlotte, NC</u>   |
|   |  | Phone No:<br><u>336-725-5844</u>                    |
|   |  | Phone No:<br><u>704-357-5616</u>                    |

**IV. UST INFORMATION FOR REGISTERED UST SYSTEMS**

**V. EXCAVATION CONDITION**

| Tank ID No. | Size in Gallons | Tank Dimensions | Last Contents | Last Use Date | Permanent Close Date | Change-in-Service Date | Water in excavation      |                          | Free product             |                          | Notable odor or visible soil contamination |                          |
|-------------|-----------------|-----------------|---------------|---------------|----------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|
|             |                 |                 |               |               |                      |                        | Yes                      | No                       | Yes                      | No                       | Yes  | No                       |
|             |                 |                 |               |               |                      |                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                   | <input type="checkbox"/> |
|             |                 |                 |               |               |                      |                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                   | <input type="checkbox"/> |
|             |                 |                 |               |               |                      |                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                   | <input type="checkbox"/> |
|             |                 |                 |               |               |                      |                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                   | <input type="checkbox"/> |
|             |                 |                 |               |               |                      |                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                   | <input type="checkbox"/> |

**VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS**

**VII. EXCAVATION CONDITION**

| Tank ID No. | Size in Gallons | Tank Dimensions | Last Contents  | Last Use Date  | Permanent Close Date | Tank Owner Name * | Water in excavation      |                                     | Free product             |                                     | Notable odor or visible soil contamination |                                     |
|-------------|-----------------|-----------------|----------------|----------------|----------------------|-------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--|-------------------------------------|
|             |                 |                 |                |                |                      |                   | Yes                      | No                                  | Yes                      | No                                  | Yes  | No                                  |
|             | <u>560</u>      | <u>4x7.5</u>    | <u>unknown</u> | <u>unknown</u> | <u>12-8-11</u>       | <u>NC DOT</u>     | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>                   | <input checked="" type="checkbox"/> |
|             | <u>560</u>      | <u>4x7.5</u>    | <u>unknown</u> | <u>unknown</u> | <u>12-8-11</u>       | <u>NC DOT</u>     | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>                   | <input checked="" type="checkbox"/> |
|             |                 |                 |                |                |                      |                   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>                   | <input type="checkbox"/>            |
|             |                 |                 |                |                |                      |                   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>                   | <input type="checkbox"/>            |
|             |                 |                 |                |                |                      |                   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>                   | <input type="checkbox"/>            |

\* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

**VIII. CERTIFICATION**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

|   |                                    |                                |
|---|------------------------------------|--------------------------------|
| Print name and official title of owner or owner's authorized representative<br><u>Troy Holzschuh Engineering Technician</u> | Signature<br><u>Troy Holzschuh</u> | Date Signed<br><u>12-16-11</u> |
|---|------------------------------------|--------------------------------|

# UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

**Return completed form to:**

The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY

I.D. # \_\_\_\_\_  
Date Received \_\_\_\_\_

**INSTRUCTIONS (READ THIS FIRST)**

Complete and return at least thirty (30) days prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a five (5) working days notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. The *Guidelines for Tank Closure* can be obtained at [www.wastenotnc.org](http://www.wastenotnc.org).

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

| I. OWNERSHIP OF TANKS  |  | II. LOCATION                                      |                          |
|--|--|---|--------------------------|
| Owner Name (Corporation, Individual, Public Agency, or Other Entity)<br><i>NCDOT</i> | Facility Name or Company<br><i>Vacant Building</i> | Street Address<br><i>1589 Mail Service Center</i> | Facility ID # (If known) |
| City<br><i>Raleigh</i>   | County<br><i>Wake</i>                              | Street Address<br><i>600 Enola Rd</i>             | City<br><i>Morganton</i> |
| State<br><i>NC</i>   | Zip Code<br><i>27699</i>                           | County<br><i>Burke</i>                            | Zip Code                 |
| Phone Number<br><i>919-707-6870</i>  | Phone Number                                       |   |                          |

| III. CONTACT PERSONNEL       |                               |  |                                      |
|------------------------------|-------------------------------|--|--------------------------------------|
| Name:<br><i>Terry Fox LG</i> | Company Name:<br><i>NCDOT</i> | Job Title:<br><i>Geo Environmental Project Manager</i> | Phone Number:<br><i>919-707-6870</i> |

| IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE  |   |  |
|--|---|--|
| 1. Contact local fire marshal.   | 5. Provide a sketch locating piping, tanks and soil sampling locations.   | a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required. |
| 2. Plan entire closure event.  | 6. Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation. | 8. Keep closure records for three (3) years.   |
| 3. Conduct Site Soil Assessment.   | 7. If a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of |  |
| 4. If removing tanks or closing in place, refer to API Publication 2015 <i>Cleaning Petroleum Storage Tanks</i> and 1604 <i>Removal and Disposal of Used Underground Petroleum Storage Tanks</i> . |   |  |

| V. WORK TO BE PERFORMED BY                          |   |                           |   |
|---|---|---------------------------|---|
| Contractor Name:<br><i>Tony Disher</i>              | Contractor Company Name:<br><i>EVO Corp</i>     |                           |   |
| Address:<br><i>1703 Vargrave St Winston Salem</i>   | State:<br><i>NC</i>                             | Zip Code:<br><i>27107</i> | Phone No:<br><i>336-725-5844</i>            |
| Primary Consultant Name:<br><i>Troy L Holzschuh</i> | Primary Consultant Company Name:<br><i>AMEC</i> |                           | Consultant Phone No:<br><i>704-357-8600</i> |

| VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE |                 |                |                                     |                                |                                       |
|--|-----------------|----------------|-------------------------------------|--------------------------------|---------------------------------------|
| Tank ID No.  | Size in Gallons | Last Contents  | Proposed Activity                   |                                |                                       |
|  |                 |                | Removal                             | Closure Abandonment in Place * | Change-In-Service New Contents Stored |
|  | <i>560</i>      | <i>unknown</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/>       |                                       |
|  | <i>560</i>      | <i>unknown</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/>       |                                       |
|  |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>       |                                       |
|  |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>       |                                       |

\* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

**VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE**

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title:

|                                      |                                |  |   |
|--------------------------------------|--------------------------------|--|---|
| Signature<br><i>Troy L Holzschuh</i> | Date Signed<br><i>11-21-11</i> | SCHEDULED REMOVAL DATE<br><i>12-1-11</i> | Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes |
|--------------------------------------|--------------------------------|--|---|