

January 15, 2010

BPA c/o Wisdom & Wealth Management 4350 Lassiter Road at North Hills, Suite 230 Raleigh, North Carolina 27609

Attention:

Mr. John Philips

Reference:

INITIAL ABATEMENT ACTION REPORT

Former Stocks Building Supply UST

111 Military Cutoff Road Wilmington, North Carolina

S&ME Project No. 1064-09-569A

Dear Mr. Philips:

S&ME, Inc. prepared this correspondence to provide information related to the release of petroleum from a diesel underground storage tank (UST) system at the above-referenced site. The work was completed for BPA as authorized by S&ME Proposal 211-09 Revised dated April 14, 2009. This document is intended to fulfill the requirements of Title 15A North Carolina Administrative Code Subchapter 2L Section .0404.

Please contact the undersigned if you have any questions concerning this report.

Sincerely,

S&ME, Inc.

Paul Masten

Project Manager

PAM:WW/jns

Attachments

Wayne Watterson, P.E. Senior Engineer

Wayne Watterson ms

# INITIAL ABATEMENT ACTION REPORT Former Stocks Building Supply UST 111 Military Cutoff Road Wilmington, North Carolina Facility ID 0-026351 S&ME Project No. 1064-09-569A

Prepared For **BPA** 

Mr. John Philips 4350 Lassiter Road at North Hills, Suite 230 Raleigh, North Carolina 27609

Prepared By

S&ME, Inc.

3006 Hall Waters Drive, Suite 100 Wilmington, North Carolina 28405

January 15, 2010

#### 1. SITE INFORMATION

Date of report: 1/15/10

Facility I.D: 0-026351

UST Incident Number: N/A

Site Name: Former Stocks Building Supply

Site Street Address: 111 Military Cutoff Road

City/Town: Wilmington County: New Hanover

<u>UST Owner:</u> Stocks Building Supply

111 Military Cutoff Road Wilmington, NC 28412

(Bankrupt)

Property Owner: BPA

Mr. John Philips

4350 Lassiter Road at North Hills, Suite 230

Raleigh, NC 27609 (919) 673-2222

Consultant/Contractor: S&ME, Inc.

3006 Hall Waters Drive, Suite 100

Wilmington, NC 28405 Attn: Paul Masten (910) 799-9945

<u>Analytical Laboratory:</u> Environmental Sciences Corporation

12065 Lebanon Road Mt. Juliet, TN 37122

State Certification Number: NC ENV375, DW21704

Telephone: (800) 767-5859

### 2. RELEASE INFORMATION

Date Discovered:

December 4, 2009

confirmed by laboratory results December 18, 2009.

Est. Quantity of Release:

Unknown - residual

Cause of Release:

Small area of contaminated soil identified at the fill

port, and the UST tore during tank removal

activities.

Source of Release:

**UST System** 

Size and Contents of USTs

Diesel – 10,000 gallon (former)

Latitude: 34.262021°N

Longitude: -77.825389°W

Source: Google Earth

Wayne H. Watterson, P.E.

 $\underline{\text{S\&ME, Inc.}}$  is licensed to practice geology (certification # C-145) and engineering (certification # F-0176) in North Carolina.

# 3. SITE HISTORY AND CHARACTERIZATION

Table 1 - Site History - UST/AST Owner/Operator and Other Responsible Party Information

UST ID Number	Name of Owner or Operator	Dates of Ownership	Owner or Operator?	
1	Stocks Building Supply	6/23/1999 – 6/9/2009		Owner and Operator
Address			Telepho	ne Number
111 Military C	utoff Road		None	hankrunt
Wilmington, N	C 28412		None -	- bankrupt

Table 2: Site History – UST/AST System and Other Release Information

UST ID Number	Current/Last Contents *	Previous Contents *	Capacity (in gallons)	Construction Details **	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST ***	Was release associated with the UST System?
1	Diesel	Diesel	10,000	Fiberglass	Unknown	Steel with fiberglass coating	9/21/88	Removed	Yes

The site location is 111 Military Cutoff Road in Wilmington, North Carolina, as shown on **Figure 1** (Site Vicinity Map ) in **Appendix I**. The former 10,000 gallon diesel UST (1) was located adjacent to the southern property border between two large metal storage sheds (**Figure 2**). The associated piping exited the UST in a northwest direction and then turned to the northeast to connect with a dispenser. A diesel aboveground storage tank (AST) with associated painted steel containment was present beside the fuel dispenser as well. The AST was removed prior to UST closure activities. No evidence of release was observed beneath the AST containment. No subsurface product lines were observed for the AST. This report was prepared to address the permanent closure of the diesel UST.

A UST-3 Notice of Intent for Permanent Closure or Change-in-Service of UST Form was completed and submitted to North Carolina Division of Waste Management (DWM) – Wilmington Regional Office and is included in **Appendix IV**.

S&ME and subcontractor A&D Environmental performed UST closure activities on December 3 and 4, 2009. This included removal of liquids from the tank and excavation of the tank. A photo-ionization detector (PID) was used to screen excavated soil. A small volume of visually impacted soil observed around the fill port was stockpiled separately and sampled (sample ID Stockpile 1). The tank was removed from the pit and transported to A&D Environmental in High Point, North Carolina for disposal. Upon removal, groundwater was observed in the open excavation. The tank disposal manifest is attached in **Appendix IV**.

Clean backfill and soil with no visual evidence of petroleum impacts were used to fill the excavation basin.

Fifteen soil samples were collected for closure purposes on December 4, 2009 and submitted for analysis by total petroleum hydrocarbons for gasoline and diesel range organics (GRO and DRO). Ten soil samples were collected directly from the basin walls at approximately three feet below the ground surface, immediately above the stabilized groundwater level; one from beneath the dispenser island at approximately one foot below the ground surface; three from beneath the product lines at approximately one foot below the ground surface; and one composite sample from the visually impacted stockpile. A soil sample was not collected from the floor of the excavation because of the presence of observed groundwater in the excavation.

**Table 1** in **Appendix II** shows the summary of the soil analytical results. All results were reported as being below DWM Action Level of 40 parts per million (ppm), with the exception of the sample collected from the visually-impacted soil stockpile which reported a DRO concentration of 150 ppm.

Since groundwater was encountered during closure, a temporary monitoring well was installed in the former basin on December 7, 2009 by a North Carolina certified well driller. The well was developed on December 8, 2008, and a groundwater sample was collected and submitted for laboratory analysis by EPA Methods 625 with ten prominent

peaks and 602 for volatile organic compounds and MADEP VPH/EPH. The results indicated only C9-22 Aromatics, reported at 430 micrograms per liter, exceeded its respective DWM Groundwater Standard (NCAC 2L) of 210 micrograms per liter (see Table 2). A copy of the well construction log is included in **Appendix IV**.

A copy of the laboratory analytical results has been included in **Appendix III**.

#### 4. FREE PRODUCT

Groundwater was encountered by S&ME during closure activities. However, free product was not observed in the excavation.

#### 5. ADDITIONAL SOURCE INVESTIGATION

No additional source investigation has been completed at the time of this report.

#### 6. INITIAL RESPONSE AND ABATEMTENT ACTION

During removal of UST overburden soil and removal of the tank straps attaching the tank to the underlying concrete pad on December 3, 2009, upward pressure from the shallow water table caused one of the straps to tear into the tank. Groundwater entered the tank and mixed with the residual liquid on the sides and in the bottom of the tank. A vacuum truck was used to remove as much of the residual mixture as practically possible from the UST basin. Approximately 1,800 gallons of the groundwater/residual fuel mixture were removed from the basin.

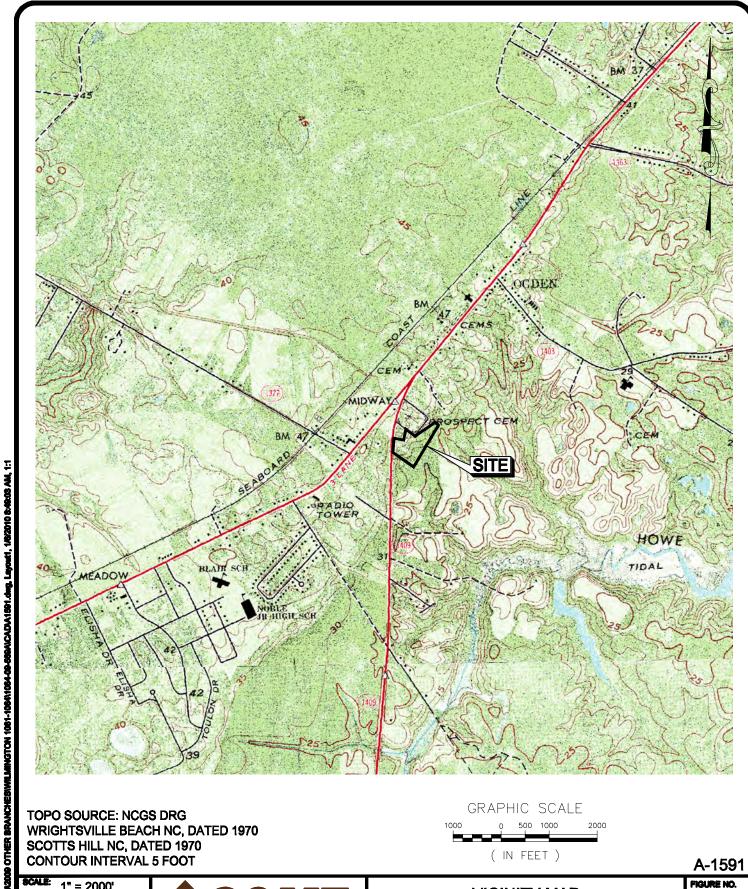
#### 7. CONCLUSIONS AND RECOMMENDATIONS

Petroleum-impacted soil was removed from around the fill port and stockpiled separately for proper disposal. All soil closure samples reported total petroleum hydrocarbon concentrations below NCDENR Soil Action Levels. Only C9-22 Aromatics were reported in the site groundwater at concentrations that exceed North Carolina groundwater quality standards. None of the reported petroleum concentrations in the site groundwater exceed the DWM Gross Contaminant Levels.

A receptor survey should be completed to document whether water supply wells or other sensitive receptors are present near the subject property. If the receptor survey indicates no receptors are present near the site, then the DWM may allow incident closure with the completion of a Notice of Residual Petroleum with the prohibition of the installation of a water supply well on the property.

# **APPENDIX I**

Figures



**TOPO SOURCE: NCGS DRG** WRIGHTSVILLE BEACH NC, DATED 1970 SCOTTS HILL NC, DATED 1970 **CONTOUR INTERVAL 5 FOOT** 



A-1591

1" = 2000'

DEC. 2009

NBY: BTR

NC ENGINEER LICENSE #F-0176 3201 SPRING FOREST RD, RALEIGH, NC 27616

# **VICINITY MAP**

FORMER STOCKS BUILDING SUPPLY 111 MILITARY CUTOFF ROAD WILMINGTON, NORTH CAROLINA

FIGURE NO.



IMAGE SOURCE: NC ONEMAP, NEW HANOVER COUNTY, DATED 2006

BCALE: 1" = 200'

PROJECTB/2008/2009 OTHER BRANCHESWILLINGTON 1061-106A11084-09-68BAICADA1592 dag, Lajoutt, 106/2010 8:5632 AM, 1:1

DATE: JAN. 2010

DRAWN BY: BTR

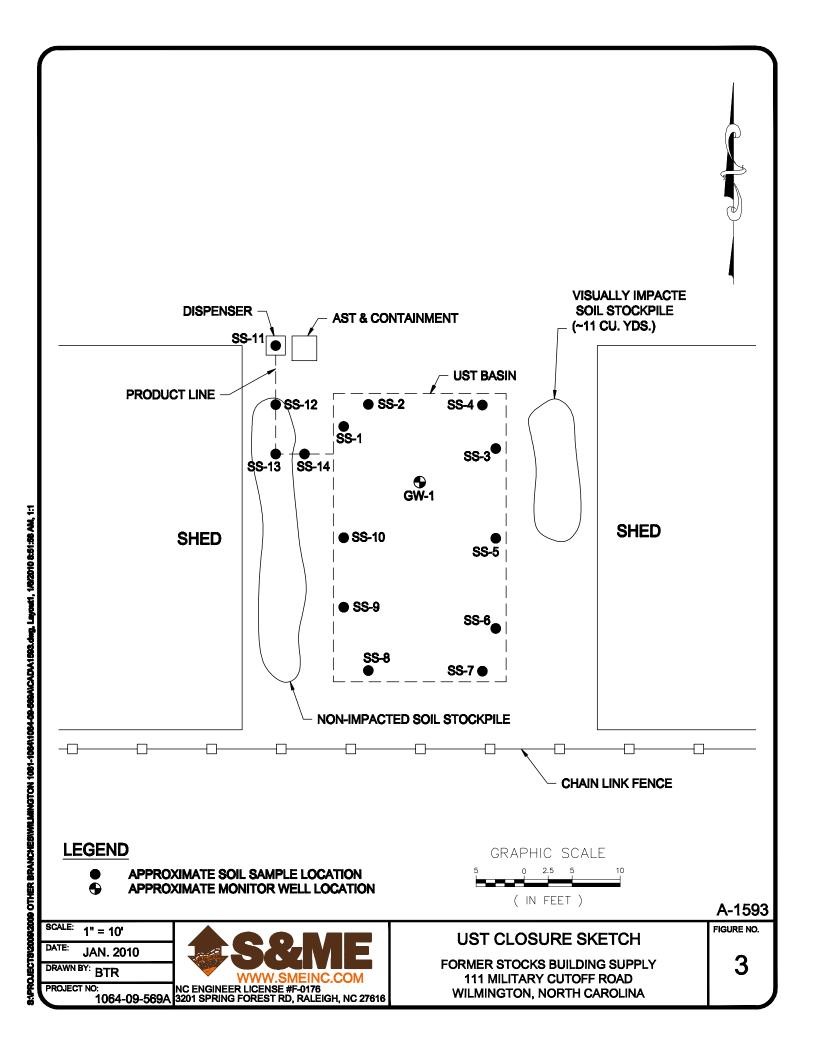
PROJECT NO: 1064-09-569A

WWW.SMEINC.COM
NC ENGINEER LICENSE #F-0176
3201 SPRING FOREST RD, RALEIGH, NC 27616

#### **UST CLOSURE LOCATION**

FORMER STOCKS BUILDING SUPPLY 111 MILITARY CUTOFF ROAD WILMINGTON, NORTH CAROLINA A-1592 FIGURE NO.

2



# **APPENDIX II**

Tables

Table 1
UST Closure Soil Sampling Results
Former Stocks Building Supply
111 Military Cutoff Road
Wimington, North Carolina
Facility ID 0-026351
S&ME Projet No. 1064-09-569A

			TPH - GRO	TPH - DRO
		Date	result	result
Sample ID	Location	Collected	(mg/kg)	(mg/kg)
SS-1	Pit wall	12/4/2009	BDL	BDL
SS-2	Pit wall	12/4/2009	BDL	BDL
SS-3	Pit wall	12/4/2009	BDL	BDL
SS-4	Pit wall	12/4/2009	BDL	BDL
SS-5	Pit wall	12/4/2009	BDL	BDL
SS-6	Pit wall	12/4/2009	BDL	BDL
SS-7	Pit wall	12/4/2009	BDL	BDL
SS-8	Pit wall	12/4/2009	BDL	BDL
SS-9	Pit wall	12/4/2009	BDL	BDL
SS-10	Pit wall	12/4/2009	BDL	BDL
SS-11	Dispenser island	12/4/2009	BDL	5.6
SS-12	Product line	12/4/2009	BDL	BDL
SS-13	Product line	12/4/2009	BDL	BDL
SS-14	Product line	12/4/2009	BDL	BDL
Stockpile 1	Stockpile	12/4/2009	BDL	150
NCDENR	Soil Action Level		10	40

mg/kg = milligrams per kilogram = parts per million BDL = Below Detection Limit of laboratory

**Bold italics** denotes results above NCDENR Soil Action Levels

# Table 2 UST Closure Groundwater Sampling Results Former Stocks Building Supply 111 Military Cutoff Road Wilmington, North Carolina Facility ID 0-026351

S&ME Project Number: 1064-09-569A

Analytica	al Method	EPA M	ethod 60	2 using I	EPA Meth	od 8260l	B (ug/L)			MAD	EP VPH	l & EPH (	(ug/L)			EPA Metho	d 625 (ug/L)
Contan	ninant of										•				S		
Sample	Date Collected	IPE	МТВЕ	Benzene	Toluene	Ethylebenzene	Total Xylenes	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C18 Aliphatics	Calculated C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C10 Aromatics	C11-C22 Aromatics	Calculated C9-C22 Aromatics	Naphthalene	Dimethyl - phthalate
GW-1	12/8/2009	BDL	BDL	1	BDL	2.1	50	BDL	400	110	510	BDL	240	190	430	3.1	2.1
2L Standar	d (ug/L)	70	200	1	1000	550	530	420		4200*		42,000		210**		21	

<sup>\* 2</sup>L Standard is for C9-C18 Aliphatics is compared to the following EPH/VPH results ([C9-C12 Aliphatics]+[C9-C18 Aliphatics]

BDL = Below Detection Limit

ug/L = Micrograms per liter

<sup>\*\* 2</sup>L Standard is for C9-C22 Aromatics is compared to the following EPH results [C9-C10 Aromatics + C11-C22 Aromatics]

# **APPENDIX III**

Copies of Laboratory Analytical Reports



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100

Wilmington, NC 28405

## Report Summary

Tuesday December 15, 2009

Report Number: L435302 Samples Received: 12/05/09 Client Project: 1064-09-569A

Description: Former Stocks Building Supply

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Laboratory Certification Numbers

Tom Mellette, ESC Representative

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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Tax I.D. 62-0814289

REPORT OF ANALYSIS

December 15,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-01

Project #: 1064-09-569A

Est. 1970

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID :

Sample ID : SS-1

Collected By : Paul Masten
Collection Date : 12/04/09 07:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	92.8		%	2540G	12/11/09	1
TPH (GC/FID) Low Fraction	BDL	5.7	mg/kg	8015	12/10/09	53
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	93.9		% Rec.	8015	12/10/09	53
TPH (GC/FID) High Fraction	BDL	4.3	mg/kg	DRO	12/14/09	1
Surrogate recovery(%) o-Terphenyl	67.3		% Rec.	DRO	12/14/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Est. 1970

December 15,2009

REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-02

Project #: 1064-09-569A

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID :

: SS-2 Sample ID

Collected By : Paul Masten
Collection Date : 12/04/09 07:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.8		%	2540G	12/11/09	1
TPH (GC/FID) Low Fraction	BDL	5.0	mg/kg	8015	12/10/09	44
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	92.3		% Rec.	8015	12/10/09	44
TPH (GC/FID) High Fraction	BDL	4.6	mg/kg	DRO	12/14/09	1
Surrogate recovery(%) o-Terphenyl	59.7		% Rec.	DRO	12/14/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Project #: 1064-09-569A

REPORT OF ANALYSIS

December 15,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-03

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : SS-3

Collected By : Paul Masten
Collection Date : 12/04/09 08:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.1		%	2540G	12/11/09	1
TPH (GC/FID) Low Fraction	BDL	4.8	mg/kg	8015	12/10/09	43
<pre>Surrogate Recovery-%   a,a,a-Trifluorotoluene(FID)</pre>	93.4		% Rec.	8015	12/10/09	43
TPH (GC/FID) High Fraction	BDL	4.5	mg/kg	DRO	12/14/09	1
Surrogate recovery(%) o-Terphenyl	63.0		% Rec.	DRO	12/14/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Est. 1970

REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-04

Project #: 1064-09-569A

December 15,2009

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : SS-4

Collected By : Paul Masten
Collection Date : 12/04/09 08:10

Det. Limit Date Dil. Parameter Dry Result Units Method Total Solids 88.2 응 2540G 12/11/09 1 TPH (GC/FID) Low Fraction BDL 5.1 mg/kg 8015 12/10/09 45 Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) 94.0 % Rec. 8015 12/10/09 45 TPH (GC/FID) High Fraction 4.5 12/14/09 1 BDL mg/kg DRO Surrogate recovery(%) 51.5 % Rec. 12/14/09 1 o-Terphenyl DRO

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Est. 1970

December 15,2009

REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-05

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID :

: SS-5 Sample ID Project #: 1064-09-569A

Collected By : Paul Masten
Collection Date : 12/04/09 08:19

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.2		8	2540G	12/10/09	1
TPH (GC/FID) Low Fraction	BDL	4.6	mg/kg	8015	12/10/09	42
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	93.9		% Rec.	8015	12/10/09	42
TPH (GC/FID) High Fraction	BDL	4.4	mg/kg	DRO	12/15/09	1
Surrogate recovery(%) o-Terphenyl	80.8		% Rec.	DRO	12/15/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:



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REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-06

Project #: 1064-09-569A

Est. 1970

December 15,2009

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID : : SS-6 Sample ID

Collected By : Paul Masten
Collection Date : 12/04/09 08:35

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.1		%	2540G	12/10/09	1
TPH (GC/FID) Low Fraction	BDL	4.6	mg/kg	8015	12/10/09	40
<pre>Surrogate Recovery-%   a,a,a-Trifluorotoluene(FID)</pre>	94.1		% Rec.	8015	12/10/09	40
TPH (GC/FID) High Fraction	BDL	4.6	mg/kg	DRO	12/14/09	1
Surrogate recovery(%) o-Terphenyl	57.8		% Rec.	DRO	12/14/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



Sample ID

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Tax I.D. 62-0814289

REPORT OF ANALYSIS

December 15,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-07

Project #: 1064-09-569A

Est. 1970

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID : : SS-7

Collected By : Paul Masten
Collection Date : 12/04/09 08:58

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.0		%	2540G	12/10/09	1
TPH (GC/FID) Low Fraction	BDL	4.4	mg/kg	8015	12/10/09	38
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	94.1		% Rec.	8015	12/10/09	38
TPH (GC/FID) High Fraction	BDL	4.6	mg/kg	DRO	12/14/09	1
Surrogate recovery(%) o-Terphenyl	58.8		% Rec.	DRO	12/14/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-08

Est. 1970

December 15,2009

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID :

: SS-8 Sample ID Project #: 1064-09-569A

Collected By : Paul Masten
Collection Date : 12/04/09 09:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.2		%	2540G	12/10/09	1
TPH (GC/FID) Low Fraction	BDL	4.6	mg/kg	8015	12/10/09	40
<pre>Surrogate Recovery-%   a,a,a-Trifluorotoluene(FID)</pre>	94.1		% Rec.	8015	12/10/09	40
TPH (GC/FID) High Fraction	BDL	4.6	mg/kg	DRO	12/14/09	1
Surrogate recovery(%) o-Terphenyl	51.1		% Rec.	DRO	12/14/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Tax I.D. 62-0814289

REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-09

Project #: 1064-09-569A

Est. 1970

December 15,2009

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID : : SS-9 Sample ID

Collected By : Paul Masten
Collection Date : 12/04/09 09:31

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.0		%	2540G	12/10/09	1
TPH (GC/FID) Low Fraction	BDL	4.4	mg/kg	8015	12/10/09	40
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	93.6		% Rec.	8015	12/10/09	40
TPH (GC/FID) High Fraction	BDL	4.4	mg/kg	DRO	12/14/09	1
Surrogate recovery(%) o-Terphenyl	60.3		% Rec.	DRO	12/14/09	1

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Note:



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Tax I.D. 62-0814289

Est. 1970

December 15,2009

REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-10

Project #: 1064-09-569A

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : SS-10

Collected By : Paul Masten
Collection Date : 12/04/09 09:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.0		૪	2540G	12/10/09	1
TPH (GC/FID) Low Fraction	BDL	4.7	mg/kg	8015	12/10/09	42
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	93.5		% Rec.	8015	12/10/09	42
TPH (GC/FID) High Fraction	BDL	4.4	mg/kg	DRO	12/11/09	1
Surrogate recovery(%) o-Terphenyl	57.5		% Rec.	DRO	12/11/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-11

Project #: 1064-09-569A

December 15,2009

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : STOCKPILE 1

Collected By : Paul Masten
Collection Date : 12/04/09 09:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.3		%	2540G	12/10/09	1
TPH (GC/FID) Low Fraction	BDL	4.7	mg/kg	8015	12/10/09	38
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	95.7		% Rec.	8015	12/10/09	38
TPH (GC/FID) High Fraction Surrogate recovery(%) o-Terphenyl	150	5.0	mg/kg	DRO	12/11/09	1
	52.0		% Rec.	DRO	12/11/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Tax I.D. 62-0814289

REPORT OF ANALYSIS

December 15,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435302-13

Project #: 1064-09-569A

Est. 1970

Date Received : December 05, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : TRIPBLANK

Collected By : Paul Masten
Collection Date : 12/04/09 00:00

Det. Limit Units Method Dil. Parameter Result Date TPH (GC/FID) Low Fraction ug/l 100 12/09/09 BDL 8015 1 Surrogate Recovery-%
 a,a,a-Trifluorotoluene(FID) 97.0 % Rec. 8015 12/09/09

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/15/09 12:12 Printed: 12/15/09 12:12

# Summary of Remarks For Samples Printed 12/15/09 at 12:12:45

TSR Signing Reports: 690 R5 - Desired TAT

Sample: L435302-01 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-02 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-03 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-04 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-05 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-06 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-07 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-09 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-09 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-10 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-11 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-13 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-13 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-13 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-13 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-13 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-13 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 Sample: L435302-13 Account: SMEWNC Received: 12/05/09 09:00 Due Date: 12/11/09 00:00 RPT Date: 12/15/09 12:12 SAMPLE: L435302-13 Account: SMEWNC Received: 12/05/09 09:00 Due Da



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100

Wilmington, NC 28405

### Report Summary

Friday December 18, 2009

Report Number: L435784 Samples Received: 12/09/09 Client Project: 1064-09-569A

Description: Former Stocks Building Supply

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Laboratory Certification Numbers

Tom Mellette, ESC Representative

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from Environmental Science Corp. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

> 6 Samples Reported: 12/18/09 13:20 Printed: 12/18/09 13:20 Page 1 of 11



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Tax I.D. 62-0814289

REPORT OF ANALYSIS

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435784-01

Project #: 1064-09-569A

Est. 1970

December 18,2009

Date Received : December 09, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : SS-11

Collected By : Paul Masten
Collection Date : 12/04/09 00:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.8		%	2540G	12/14/09	1
TPH (GC/FID) Low Fraction	BDL	4.1	mg/kg	8015	12/13/09	37
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	94.0		% Rec.	8015	12/13/09	37
TPH (GC/FID) High Fraction Surrogate recovery(%) o-Terphenyl	5.6	4.4	mg/kg	DRO	12/12/09	1
	70.0		% Rec.	DRO	12/12/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



Sample ID

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Tax I.D. 62-0814289

REPORT OF ANALYSIS

December 18,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435784-02

Project #: 1064-09-569A

Est. 1970

Date Received : December 09, 2009
Description : Former Stocks Building Supply

Site ID : : SS-12

Collected By : Paul Masten
Collection Date : 12/04/09 00:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.9		ે	2540G	12/14/09	1
TPH (GC/FID) Low Fraction	BDL	4.8	mg/kg	8015	12/13/09	42.5
<pre>Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)</pre>	93.9		% Rec.	8015	12/13/09	42.5
TPH (GC/FID) High Fraction Surrogate recovery(%) o-Terphenyl	BDL	4.5	mg/kg	DRO	12/12/09	1
	68.8		% Rec.	DRO	12/12/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 18,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435784-03

Date Received : December 09, 2009
Description : Former Stocks Building Supply

Site ID :

Sample ID : SS-13 Project #: 1064-09-569A

Collected By : Paul Masten
Collection Date : 12/04/09 00:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.6		%	2540G	12/14/09	1
TPH (GC/FID) Low Fraction Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	BDL	3.9	mg/kg	8015	12/13/09	34
	93.8		% Rec.	8015	12/13/09	34
TPH (GC/FID) High Fraction Surrogate recovery(%) o-Terphenyl	BDL	4.6	mg/kg	DRO	12/12/09	1
	62.1		% Rec.	DRO	12/12/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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REPORT OF ANALYSIS

December 18,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435784-04

Project #: 1064-09-569A

Est. 1970

Date Received : December 09, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : SS-14

Collected By : Paul Masten
Collection Date : 12/04/09 00:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.1		ે	2540G	12/14/09	1
TPH (GC/FID) Low Fraction	BDL	4.3	mg/kg	8015	12/13/09	38
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8015	12/13/09	38
TPH (GC/FID) High Fraction Surrogate recovery(%) o-Terphenyl	BDL	4.5	mg/kg	DRO	12/11/09	1
	80.0		% Rec.	DRO	12/11/09	1

Results listed are dry weight basis. BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:



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Tax I.D. 62-0814289

Est. 1970

Project #: 1064-09-569A

REPORT OF ANALYSIS

December 18,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435784-05

Date Received : December 09, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : GW-1

Collected By : Paul Masten
Collection Date : 12/08/09 09:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Petroleum Hydrocarbons C5-C8 Aliphatics C9-C12 Aliphatics C9-C10 Aromatics	160 BDL 400 240	100 100 100 100	ug/l ug/l ug/l ug/l	MADEPV MADEPV MADEPV MADEPV	12/11/09 12/11/09 12/11/09 12/11/09	1 1 1 1
Surrogate Recovery 2,5-Dibromotoluene(FID) 2,5-Dibromotoluene(PID)	104. 111.		% Rec. % Rec.	MADEPV MADEPV	12/11/09 12/11/09	1
Volatile Organics Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-butyl ether Di-isopropyl ether Surrogate Recovery Toluene-d8	1.0 BDL 2.1 50. BDL BDL	0.50 5.0 0.50 1.5 1.0	ug/l ug/l ug/l ug/l ug/l ug/l	602MS 602MS 602MS 602MS 602MS 602MS 602MS	12/12/09 12/12/09 12/12/09 12/12/09 12/12/09 12/12/09	1 1 1 1 1
Dibromofluoromethane 4-Bromofluorobenzene	120. 101.		% Rec. % Rec.	602MS 602MS	12/12/09 12/12/09	1
Extractable Petroleum Hydrocarb C9-C18 Aliphatics C19-C36 Aliphatics C11-C22 Aromatics Surrogate Recovery	300 110 BDL 190	100 100 100 100	ug/l ug/l ug/l ug/l	MADEPE MADEPE MADEPE MADEPE	12/15/09 12/15/09 12/15/09 12/15/09	1 1 1 1
o-Terphenyl 1-Chloro-octadecane 2-Fluorobiphenyl 2-Bromonaphthanene	63.1 38.0 94.2 103.		% Rec. % Rec. % Rec. % Rec.	MADEPE MADEPE MADEPE MADEPE	12/15/09 12/15/09 12/15/09 12/15/09	1 1 1 1
625 Base/Neutrals w/ TIC Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Bis(2-chlorethoxy)methane Bis(2-chloroisopropyl)ether 4-Bromophenyl-phenylether	BDL	1.0 1.0 1.0 10. 1.0 1.0 1.0 1.0 1.0 1.0	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	625 625 625 625 625 625 625 625 625 625	12/11/09 12/11/09 12/11/09 12/11/09 12/11/09 12/11/09 12/11/09 12/11/09 12/11/09 12/11/09 12/11/09 12/11/09 12/11/09	1 1 1 1 1 1 1 1 1 1 1 1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L435784-05 (EPHNC) - Second extraction also had low SURR recovery. Matrix effect.

Page 6 of 11



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 18,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435784-05

Date Received : December 09, 2009
Description : Former Stocks Building Supply

Site ID :

Sample ID : GW-1

Project #: 1064-09-569A

Collected By : Paul Masten
Collection Date : 12/08/09 09:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Chloronaphthalene	BDL	1.0	ug/l	625	12/11/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	625	12/11/09	1
Chrysene	BDL	1.0	ug/l	625	12/11/09	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	625	12/11/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	625	12/11/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	625	12/11/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	625	12/11/09	1
Fluoranthene	BDL	1.0	ug/l	625	12/11/09	1
Fluorene	BDL	1.0	ug/1	625	12/11/09	$\overline{1}$
Hexachlorobenzene	BDL	1.0	ug/l	625	12/11/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/1	625	12/11/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/1	625	12/11/09	1
Hexachloroethane	BDL	10.	ug/l	625	12/11/09	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/1	625	12/11/09	1
Isophorone	BDL	10.	ug/l	625	12/11/09	1
Naphthalene	3.1	1.0	ug/1	625	12/11/09	1
Nitrobenzene	BDL	10.	ug/1	625	12/11/09	1
n-Nitrosodimethylamine	BDL	10.	ug/1	625	12/11/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/1	625	12/11/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/1	625	12/11/09	1
Phenanthrene	BDL	1.0	ug/1 ug/1	625	12/11/09	1
Benzylbutyl phthalate	BDL	1.0	ug/1	625	12/11/09	1
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/1	625	12/11/09	1
Di-n-butyl phthalate	BDL	1.0	ug/1	625	12/11/09	1
Diethyl phthalate	BDL	1.0	ug/1	625	12/11/09	1
Dimethyl phthalate	2.1	1.0	ug/1 ug/1	625	12/11/09	1
Di-n-octyl phthalate	BDL	1.0	ug/1	625	12/11/09	1
Pyrene	BDL	1.0	ug/1 ug/1	625	12/11/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l ug/l	625	12/11/09	1
Acid Extractables	חתם	10.	ug/1	025	12/11/09	Τ.
4-Chloro-3-methylphenol	BDL	10.	ug/l	625	12/11/09	1
2-Chlorophenol	BDL	10.	ug/1 ug/1	625	12/11/09	1
2,4-Dichlorophenol	BDL	10.	ug/l ug/l	625	12/11/09	1
2,4-Dientorophenol 2,4-Dimethylphenol	BDL	10.	ug/1 ug/1	625	12/11/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/1 ug/l	625	12/11/09	1
2,4-Dinitrophenol		10.	ug/1 ug/1	625	12/11/09	1
	BDL					1
2-Nitrophenol 4-Nitrophenol	BDL	10. 10.	ug/l	625 625	12/11/09 12/11/09	1
	BDL		ug/l			1
Pentachlorophenol Phenol	BDL	1.0	ug/l	625 625	12/11/09	1
	BDL		ug/l		12/11/09	
2,4,6-Trichlorophenol	BDL	10.	ug/l	625	12/11/09	1
Surrogate Recovery	71 7		0 D	605	10/11/00	1
Nitrobenzene-d5	71.7		% Rec.	625	12/11/09	1
2-Fluorobiphenyl	74.9		% Rec.	625	12/11/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L435784-05 (EPHNC) - Second extraction also had low SURR recovery. Matrix effect.

Page 7 of 11



YOUR LAB OF CHOICE

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Tax I.D. 62-0814289

REPORT OF ANALYSIS

December 18,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435784-05

Project #: 1064-09-569A

Est. 1970

Date Received : December 09, 2009
Description : Former Stocks Building Supply

Site ID : GW-1 Sample ID :

Collected By : Paul Masten
Collection Date : 12/08/09 09:50

Result Det. Limit Units Method Dil. Parameter Date 122. % Rec. 625 12/11/09 p-Terphenyl-d14 1 Phenol-d5 30.3 45.0 % Rec. 625 12/11/09 1 2-Fluorophenol % Rec. 625 12/11/09 2,4,6-Tribromophenol 93.6 12/11/09 % Rec.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

. Reported: 12/18/09 13:20 Printed: 12/18/09 13:20 L435784-05 (EPHNC) - Second extraction also had low SURR recovery. Matrix effect.

Page 8 of 11



YOUR LAB OF CHOICE

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Tax I.D. 62-0814289

REPORT OF ANALYSIS

December 18,2009

Paul Masten S&ME Inc. - Wilmington, NC 3006 Hall Watters Drive Suite 100 Wilmington, NC 28405

ESC Sample # : L435784-06

Project #: 1064-09-569A

Est. 1970

Date Received : December 09, 2009
Description : Former Stocks Building Supply

Site ID : Sample ID : TRIPBLANK

Collected By : Paul Masten
Collection Date : 12/08/09 00:00

Det. Limit Units Method Dil. Parameter Result Date TPH (GC/FID) Low Fraction ug/l 100 12/12/09 BDL 8015 1 Surrogate Recovery-%
 a,a,a-Trifluorotoluene(FID) 92.5 % Rec. 8015 12/12/09

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/18/09 13:20 Printed: 12/18/09 13:20

#### Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L435784-05	WG455032	SAMP	1-Chloro-octadecane	R1040508	J2

#### Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits

#### Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

#### Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

  Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

### Summary of Remarks For Samples Printed 12/18/09 at 13:20:43

TSR Signing Reports: 690 R5 - Desired TAT

Sample: L435784-01 Account: SMEWNC Received: 12/09/09 11:00 Due Date: 12/16/09 00:00 RPT Date: 12/18/09 13:20 Sample: L435784-03 Account: SMEWNC Received: 12/09/09 11:00 Due Date: 12/16/09 00:00 RPT Date: 12/18/09 13:20 Sample: L435784-04 Account: SMEWNC Received: 12/09/09 11:00 Due Date: 12/16/09 00:00 RPT Date: 12/18/09 13:20 Sample: L435784-05 Account: SMEWNC Received: 12/09/09 11:00 Due Date: 12/16/09 00:00 RPT Date: 12/18/09 13:20 Sample: L435784-05 Account: SMEWNC Received: 12/09/09 11:00 Due Date: 12/16/09 00:00 RPT Date: 12/18/09 13:20 Sample: L435784-06 Account: SMEWNC Received: 12/09/09 11:00 Due Date: 12/16/09 00:00 RPT Date: 12/18/09 13:20

#### **APPENDIX IV**

UST-3 Form Tank, Liquid, and Soil Disposal Manifests Well Construction Log

### 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 <u>Raleigh</u> 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.

You must make sure that USTs removed from your property are disposed of property. 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. LOCATION   Facility Name or Company   Iding Supply	could be held responsible for the cleanup of any environmental damage that occurs.								
Street Address  III M: Itory Orbit Rock  City County May Henver  City County May Henver  Street Address III CONTACT PERSONNEL  Name: PLU MASTEN  Company Name: Street Tac.  Phone Number  III. CONTACT PERSONNEL  Submit a closure report in the format of UST-2) within the format of UST-12 (including line hor UST-2) within the season of the dark closure report in the format of UST-12 (including line hor UST-2) within the season of User Underground Petroleum  Storage Tanks and 1604 Removel and Storage Tanks  W. WORK TO BE PERFORMED BY  Contractor Name:  It a release from the tanks has occurred, the season reports bearing the dignature or seal of a P.E. or L.G. with all closure site assessment reports bearing the dignature or seal of a P.E. or L.G. with all closure site assessment reports bearing the dignature or seal of a P.E. or L.G. with all closure site assessment or locating pings, tanks and soil sampling locations.  Submit a closure report in the format of UST-12 (including line form UST-2) within the site assessment profits bearing the dignature or seal of a P.E. or L.G. with all closure site assessment or closing in place, refer to the support of the supervision of UST-12 (including line form UST-2) within the site assessment reports bearing the dignature or seal of a P.E. or L.G. with all closure site assessment reports bearing the dignature or seal of a P.E. or L.G. with all closure seal of a P.E. or L.G. with all closure report in the format of UST-12 (including line form UST-2) within the seal of a P.E. or L.G. with all closure seal of a P.E. or L.G. with all closure seal of a P.E. or L.G. with all closure report in the format of UST-12 (including line form UST-2) within the seal of a P.E. or L.G. with all closure seal of a P.E. or L.G. with all closure seal of a P.E. or L.G. with all closure report in the format of UST-12 (including line form UST-2) within the season of the tank closure report in the format of UST-12 (including line form UST-2) within the season of the tank closure report in the format of		II. LOCATION							
State NC 2 Phone Number    Clip	Owner Name (Corporation, Individual, Public Agency, or Other Entity)	Facility Name or Company  Stocks Building Supply							
State NC 2p Code State		Facility ID # (If known)							
Phone Number   Phone Number   Phone Number   Phone Number	City Wilmington County Manaver	Street Address 111 Military Cotoff Road							
Phone Number   Phone Number   Phone Number   Phone Number		City Wilmington County New Horsver 28 405							
Name:   Pul Masten   Company Name:   StME   Tac.   Job Titlo: Staff   Professiona	Phone Number	Phone Number							
I. Contact local fire marshal.   2. Consultant localing planes   3. Provide a sketch localing plping, tanks and soil sampling locations.   3. Conduct Site Soil Assessment.   4. If removing tanks or closing in place, refer to API Publication 2015 Cleaning Petroleum Storage Tanks and 1604 Removal and Disposal of Used Underground Petroleum Storage Tanks and 1604 Removal and Disposal of Used Underground Petroleum Storage Tanks.   1 a release from the tanks has occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. If a release has not occurred, the supervision of the present of	III. CONTACT PERSONNEL								
1. Contact local fire marshal. 2. Plan entire closure event. 3. Conduct Site Soil Assessment. 4. If removing tanks or closing in place, refer to API Publication 2015 Cleaning Petroleum Storage Tanks and 1604 Removal and Disposal of Used Underground Petroleum Storage Tanks.  7. If a release from the tanks has occurred, the site assessment portion of the tank closure may be conducted under the supervision of V. WORK TO BE PERFORMED BY  Contractor Name:    Contractor Name:   Contractor Ompgany Name:   Art D Environmental Company Na	Name: PLUL MASTEN Company Name: STME, Inc	1. Job Title: Staft Professional Phone Number: 910-749-9945							
2. Plan entire closure event. 3. Conduct Site Soil Assessment. 4. If removing tanks or closing in place, refer to API Publication 2015 Cleaning Petroleum Storage Tanks and 1604 Removal and Disposal of Used Underground Petroleum Storage Tanks and 1604 Removal and Disposal of Used Underground Petroleum Storage Tanks.  7. WORK TO BE PERFORMED BY  Contractor Name:  Jerry Starky  V. WORK TO BE PERFORMED BY  Contractor Symme:  Jerry Starky  VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE  Tank ID No. Size in Gallons  Last Contents  Removal Abandonment in Place  **Prior written approval to abandon a tank in place must be received from a DWM Regional Office.  VII. TANKS 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:  Via Conduction Graph in the format of UST-2) within thirty your DWM Regional Office and sales in Scheduled removal date changes.	IV. TANK REMOVAL, CLOSURE	IN PLACE, CHANGE-IN SERVICE							
Disposal of Used Underground Petroleum Storage Tanks.  I a release from the tanks has occurred, the site assessment portion of the tank closure must be conducted under the supervision of  V. WORK TO BE PERFORMED BY  Contractor Name:  Jerry Sterky  Address:  Contractor Company Name:  Jerry Sterky  Address:  State:  Zip Code:  2726   Zip Code:  2726   Zip Code:	<ol> <li>Plan entire closure event.</li> <li>Conduct Site Soil Assessment.</li> <li>Bif removing tanks or closing in place, refer to API Publication 2015 Cleaning Petroleum</li> <li>Soil sampling locations.</li> <li>Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.</li> <li>Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.</li> <li>Keep closure records for three (3) years.</li> </ol>								
Contractor Name:    Jerry   Starley   At D Environment	Disposal of Used Underground Petroleum Storage Tanks.  If a release from the site assessment points are conducted.	ortion of the tank closure under the supervision of							
Address:    Primary Consultant Name:   Primary Consultant Company Name:   Primary Consultant Phone No:   910-799-9945									
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# Environmental and Industrial Services, Inc.

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# MATERIAL MANIFEST

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## MATERIAL **MANIFEST**

Environmental and Industrial Services, Inc.

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## **Environmental Services, Inc.**

P.O. Box 484 • High Point, NC • Phone (336) 434-7750 • FAX (336) 434-7752

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	Recycling Facility: D. H. Ge	eiffin A	
	Terry Stanley Printed/Typed Name	Signature	12-07-09 MonthiDay/Year



# **Environmental Services, Inc.**

P.O. Box 484 • High Point, NC • Phone (336) 434-7750 • FAX (336) 434-7752

	TAI	NK DISPOSAL MANIFES	ST gozzo
1)	Tank Owner/Authorized Representa	tive: Name and Mailing Address	
	III milatary	Cutoff Rd Wilmington NO	
2)	Tank Owner/Authorized Representa	tive: Contact S& ME D	au masten
		Phone#: 910 70	9991
3)	Description Of Tanks:		
	Tank No. Capacity		Comments
	#2 10,0000	fue oil	Broke Fiberglass
7			
-			
		E .	-
			*****
4)	Tank Owner/Authorized Representati tanks have been removed from the pren	ive Certification: The undersigned conises of the tank owner.	ertifies that the above listed storage
(	PAR MISTEN AN TOPA	Pany	12/4/69
	Printed/Typed Name	Signature	Month/Day/Year
5)	Transporter: The undersigned certific Environmental and Industrial Services	es that the above listed storage tanks h s, 2718 Uwharrie Road, Archdale, N.C	nave been transported to A&D.
	Printed/Typed Name	Signature	Month/Day/Year
6)	Disposal Certification: The undersignate scrap pieces and accepted by the n	ned certifies that the above-named sto netal recycling facility.	rage tank(s) have been cut
	Recycling Facility: Republ	ic · Uwhania Regi	and Sub Title D
	Terry STANley Princed Typed Name	Signature Signature	12-7-09 Month/Day/Year



### Non Residential well construction record

North Carolina Department of Environment and Natural Resources- Division of Water Quality

### WELL CONTRACTOR CERTIFICATION # 2257A

1. WELL CONTRACTOR:  Marshall R. Norwood  Well Contractor (Individual) Name	d. TOP OF CASING IS 3.0 FT. Above Land Surface*  *Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
S&ME, Inc.	e. YIELD (gpm): METHOD OF TEST
Well Contractor Company Name	f. DISINFECTION: Type Amount
3201 Spring Forest Road Street Address	
Raleigh NC 27616	g. WATER ZONES (depth): Top Bottom Top Bottom
City or Town State Zip Code	TopBottomTopBottom
(919 ) 872-2660	TopBottomTopBottom
Area code Phone number	Thickness/
2. WELL INFORMATION:	7. CASING: Depth Diameter Weight Material
WELL CONSTRUCTION PERMIT#	Top 3.0 Bottom 3.0 Ft. 2.0 40 PVC
OTHER ASSOCIATED PERMIT#(if applicable)	: Top Bottom Ft
SITE WELL ID #(if applicable) MW-1	Bottom Ft
	a apout p d
3. WELL USE (Check One Box) Monitoring   Municipal/Public □	8. GROUT: Depth Material Method
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐	Top 0.0 Bottom 2.0 Ft. Bentonite Grout Placed
Irrigation ☐ Other ☐ (list use)	Top Bottom Ft
DATE DRILLED 12-7-09	TopBottom Ft
4. WELL LOCATION:	9. SCREEN: Depth Diameter Slot Size Material
111 Military Cutoff Road	Top 3.0 Bottom 8.0 Ft. 2.0 in. 0.010 in. PVC
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)	TopBottomFtinin
сіту: Wilmington соимту New Hanova	TopBottomFtinin.
TOPOGRAPHIC / LAND SETTING: (check appropriate box)	<b>:</b>
□Slope □Valley □Flat □Ridge □Other	: 10. SAND/GRAVEL PACK: : Depth Size Material
LATITUDE 34 ° 15 · 43.3000 " DMS OR 3x.xxxxxxxxxx DD	Depth Size Material Top_2.0 Bottom_8.0 Ft. #2 Silica
LONGITUDE 77 ° 49 ' 31.3900 " DMS OR 7x.xxxxxxxxx DD	TopBottomFt
Latitude/longitude source: GPS Topographic map (location of well must be shown on a USGS topo map andattached to	TopBottomFt
this form if not using GPS)	: 11. DRILLING LOG
5. FACILITY (Name of the business where the well is located.)	Top Bottom Formation Description
Former Stock Blda Supply 0-026351 Facility Name Facility ID# (if applicable)	0.0 / 8.0 Brown to tan silty sand
111 Military Cutoff Road	
Street Address	
Wilminaton NC 28405 City or Town State Zip Code	
S&ME c/o Paul Masten	
Contact Name	
3006 Hall Waters Dr. Suite 100	:
Mailing Address	
Wilmington NC 28405	
City or Town State Zip Code	12. REMARKS:
910.6 799-9945	•
Area code Phone number	I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH
S. WELL DETAILS:	15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS  RECORD HAS BEEN PROVIDED TO THE WELL OWNER.
a. TOTAL DEPTH: 11.0	. 0-
b. DOES WELL REPLACE EXISTING WELL? YES \( \text{NO} \( \text{NO} \)	SIGNATURE OF CERTIFIED WELL CONTRACTOR  12/23/09  DATE
c. WATER LEVEL Below Top of Casing: 5 FT.  (Use "+" if Above Top of Casing)	Marshall R. Norwood PRINTED NAME OF PERSON CONSTRUCTING THE WELL