MACTEC

APR 0 7 2008

LETTER OF TRANSMITTAL

To: NCDENR	**From:** MACTEC Engineering and Consulting, Inc.	**Project/Job No.:** 6550-08-0476 **Date:** April 7, 2008
	5710 Oleander Drive Suite 110	**Project:** RSC 1020 N. Front St.
	Wilmington, NC 28403	Wilmington, NC
	Phone: (910) 452-1185 **Fax:** (910) 791-1338	**Description:** 20 Day Report
Attn: Gene Jackson	**Attn:** Kim Charles Smith	

COPIES	DOC. NO.	DATE	DESCRIPTION
1	—	4/7/08	Initial Abatement Measures
			(20 Day) Report

THESE ARE TRANSMITTED AS CHECKED BELOW:

- ☐ For Approval
- ☒ For Your Use
- ☐ As Requested
- ☐ For Review and Comment
- ☐ Prints Returned After Loan to us
- ☐ Approved as Submitted
- ☐ Approved as Noted
- ☐ Returned for Corrections
- ☐ Resubmit_____Copies for Approval
- ☐ Submit_____Copies for Distribution
- ☐ Return _____Corrected Prints
- Other_____
- ☐ For Bids Due:_____

REMARKS:

Mr. Jackson,

MACTEC is pleased to submit the enclosed 20 Day Report on behalf of East Coast Development & Brokerage, Inc. Please contact Chris Pruneau should you have any questions regarding the report, as I will be working out of town on a project for the next month. Regards

Copies To: East Coast Development + File

Signed: Kimberly Charles-Smith

IF ENCLOSURES RECEIVED ARE NOT AS LISTED ABOVE, PLEASE NOTIFY US AT ONCE.

Subject: Re: Question
From: Houngjen Sun <Houngjen.Sun@ncmail.net>
Date: Tue, 29 Jul 2008 11:54:11 -0400
To: Stephen Kay <Stephen.Kay@ncmail.net>

Yes, it's the same. Please refer the organic textbook if you have time. Houng

Stephen Kay wrote:

> Houng,
> I saw in the GCL tables where Tetrachloroeth*y*lene GCL's is 700 ppb but this compound is Tetrachloroethene. Are they the same compound?
> Thanks - Steve
>
> Houngjen Sun wrote:
>
> > Steve,
> > Yes, the GCL of tetrachloroethene is 700 ppb. You can find the table of GCL on the website under UST. Please give me a call and I'll guide you there if you cannot find it.
> > Houng
> >
> > Stephen Kay wrote:
> >
> > > Hello Houngjen.
> > >
> > > I have a quick question for you. I'm reviewing a report right now in which the consultant has identified Tetrachloroethene in two temporary monitoring wells. The concentrations are 3.7 ppb and 4.5 ppb. The consultant states in the report that the Gross Contamination Level for Tetrachloroethene is 700 ppb. However I can not find this compound in the Gross Contamination Levels for Groundwater Table. Can you help. Thank you so very much for your help.
> > > Take Care - Steve Kay - WiRO

MACTEC

engineering and constructing a better tomorrow

April 7, 2008

James McFarland
East Coast Development & Brokerage, Inc.
P.O. Box 2277
Wilmington, North Carolina 28402

Subject: **Initial Abatement Measures Report**
RSC 1020 North Front Street
Wilmington, North Carolina 28402
MACTEC Project No. 6550-08-0476-01

Dear Mr. McFarland:

MACTEC Engineering and Consulting, Inc. (MACTEC) has completed the Phase II Environmental Site Assessment (Phase II) for the above-referenced Site, as requested. The results indicate a petroleum release has occurred at the site. Based on the results, the following document was prepared in accordance with the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management Underground Storage Tank Section regulatory requirements under Title 15A of the North Carolina Administrative Code (NCAC), Subchapter 2N and Subchapter 2L.

This Initial Abatement Measures Report is required to be submitted to the NCDENR within 20 days of release confirmation (March 24, 2008) or no later than April 13, 2008. This report is intended for the use of East Coast Development & Brokerage, Inc. and its correspondence with the NCDENR.

We appreciate your selection of MACTEC for this project. If you have any questions, please do not hesitate to contact us.

Sincerely,

MACTEC Engineering and Consulting, Inc.

Kim Charles-Smith
Principal Technician

J. Chris Pruneau, L.G.
Principal Hydrogeologist

MACTEC Engineering and Consulting, Inc.
5710 Oleander Drive, Suite 110
Wilmington, North Carolina 28403
(910) 452-1185 p • (910) 791-1338 f

Initial Abatement Measures Report
(20-Day Report)

A. Site Identification

DATE OF REPORT: **3/28/08**
Facility I.D.: _____ UST Incident Number (if known): _____
Site Name: **RSC** (See Figure 1)
Site Location: **1020 North Front Street**
Nearest City/Town: **Wilmington, NC** County: **New Hanover County**

UST Owner: **Mercer Taylor, LLC/Angus Mercer**
Address: **4500 Carmel Estates Road, Charlotte, NC 28226** Phone: **704-542-1422**

UST Operator: **RSC**
Address: **1020 North Front Street** Phone: **910-343-0031**

Property Owner: **Movies One, LLC**
Address: **P.O. Box 2277** Phone: **910-521-8770**

Property Occupant: **RSC**
Address: **1020 North Front Street** Phone: **910-343-0031**

Consultant/Contractor: **MACTEC Engineering and Consulting, Inc. (MACTEC)**
Address: **5710 Oleander Drive, Suite 110, Wilmington, NC** Phone: **910-452-1185**

Release Information
Date Discovered: 3/24/08
Latitude: 34.2477 **Longitude: -77.9482**
Estimated Quantity of Release: Unknown
Cause of Release: Unknown
Source of Release (Piping/UST): Unknown

Sizes and contents of UST system(s) from which the release occurred):
Recognized Environmental conditions were identified during a Phase I ESA. A former waste oil UST was identified. Mr. Richard Field, a 20 year employee of RSC stated the former waste oil UST was removed during approximately the same time as the three documented UST's that were removed in December 1993. A file review at NCDENR revealed there are no regulatory records of the waste oil UST removal. The location of the former waste oil UST is adjacent to a former wash area on the northeastern end of the building. The date and amount of the release is unknown. No free product has been observed.

Complete and include as Attachments the following items B through G in the order listed.

I, _____ a Professional Engineer/Licensed Geologist (circle one) for (firm or company of employment), do certify that the information contained in this report is correct and accurate to the best of my knowledge.

(Please Affix Seal and Signature)

B. Initial Abatement Activities

Discuss the following items:

- Removal of regulated substance from UST;
  - ***The UST systems were removed. No removal of regulated substances since that time has occurred.***
- Source control actions;
  - ***See above.***
- Contaminant migration control measures (sorbants, berms, etc.);
  - ***See above.***
- Measures taken to mitigate fire/safety hazards;
  - ***Not Applicable –low levels of soil contamination is all that is present.***
- Contaminated soil storage, treatment, and/or disposal;
  - ***Not Applicable at this time.***
- Status of free product investigation and associated removal (if applicable);
  - ***No free product has been detected at this time.***

C. Site History:

- Using the format in Table B-1, list all UST systems currently or previously located at the site including UST system number, product, capacity, date installed, date removed or closed, and whether a release was discovered. UST system numbers should correspond to the site map information requested below.
  - ***The UST owner was not available to complete the information in Table B-1 at the time of this submittal. This information will be submitted as an addendum to this report at a later time. As previously stated a former waste oil UST was historically removed, but not documented.***
- Using the format in Table B-2, list the names, addresses, telephone numbers, and dates of ownership/operation of all previous UST owners and operators of the UST system(s).
  - ***The UST owner was not available to complete the information in Table B-2 at the time of this submittal. This information will be submitted as an addendum to this report at a later time.***

D. Source Investigation

A Limited Phase II Site Assessment (Phase II) for RSC was requested by the current landowner. The Phase II was conducted by MACTEC, and included the collection of soil and groundwater samples at select locations (See Figure 2). MACTEC collected soil samples and installed three temporary monitoring wells to assess three separate areas of concern at the site. TWM-1 was installed in the area of the former waste oil UST, TMW-2 was installed in the vicinity of a former wash area, which is adjacent to the former waste oil UST. TMW-3 was installed down gradient of the location to the former diesel UST's, which were removed in 1993.

<u>Former Waste Oil UST Area</u> - Soil Sample SB-1A (5'-6') and SB-1B (14'-16') were obtained in the area of the former waste oil UST. Chromium was detected in SB-1A at a concentration of 3.1 mg/kg and in SB-1B at a concentration of 5.5 mg/kg, both of which are below the soil to groundwater maximum contaminant concentration of 27 mg/kg. Lead was detected in SB-1A at a concentration of 1.5 mg/kg and in SB-1B at a concentration of 4.4 mg/kg. These concentrations are below the designated soil to groundwater maximum contaminant concentration for lead of 270 mg/kg. SB-1B contained TPH GRO at a concentration of 460 mg/kg and DRO at a concentration of 10 mg/kg. These data were found to equal or exceed the UST Section action level of 10 mg/kg. A temporary monitoring well was installed and was identified as TMW-1. Tetrachloroethene was detected in TMW-1 at a concentration of 3.7 µg/L and exceeds the NCAC 2L Standard of 0.7 µg/L. Extractable petroleum hydrocarbons (EPH) C9-C18 aliphatics was also detected in TMW-1 at a concentration of 240 µg/L, which is below the NCAC 2L Standard of 4200 µg/L. IHS

<u>Former Wash Area</u> –MACTEC obtained soil sample SB-2A (6'-8') in the vicinity of the former wash area. SB-2A was submitted for analysis of volatiles and oil and grease. SB-2A results are below laboratory detection limits for each of the parameters listed. A temporary well was installed in the vicinity if the former wash area, the well was identified as TMW-2. Tetrachloroethene was detected in TMW-2 at a concentration of 4.5 µg/L, this concentration exceeds the NCAC 2L Standard of 0.7µg/L. IHS

<u>Former Diesel UST's</u> – Three USTs and associated lines were removed from the site in 1993, according to a UST Closure Report submitted to NCDENR. The TPH soil concentrations detected were determined to be below cleanup concentrations following an evaluation of the site. Following the suggestion by Mr. Stephen Kay of NCDENR,

MACTEC installed a groundwater well to verify depth to groundwater and rule out the presence of diesel contamination in groundwater. MACTEC installed a temporary monitoring well, which was identified as TMW-3. Groundwater from TMW-3 exhibited EPH C9-C18 aliphatics at a concentration of 190 µg/L, which is below the NCAC 2L Standard of 4200 µg/L.

Use maps and tables whenever possible and provide the rationale for sampling performed.

To the extent information is available, describe soil sampling performed to confirm the presence and source of the release including:

- location of soil samples;
  - ***Sample locations are shown on Figure 3***
- type of soil samples (from excavation, borehole, geoprobe, etc.);
  - ***Geoprobe®Direct Push***
- date of sampling;
  - ***March 6, 2008***
- soil sample collection procedures (split spoon, grab, hand auger, etc.);
  - ***Closed tube sampler***
- depth of soil samples below land surface;
  - ***varies from 5' to 16'***
- soil sample identification;
  - ***SB-1A, SB-1B and SB-2A***
- soil sample analyses;
  - ***See attached Table B-3***
  - ***Former Waste Oil UST soil analysis: Chromium & lead 3030C, TPH 8015B DRO/GRO, PCBs 8082 and Pesticides 8081A.***
  - ***Former Wash Area soil analysis: Volatiles 8260 and oil and grease.***
  - ***No soil samples were obtained in the area of the former diesel UST's.***
- soil sample analytical results (list any contaminant above MDL);
  - ***See attached Table B-3 – the soil sample results for SB-1B indicate TPH concentrations >10 mg/kg.***

Describe any groundwater sampling performed to confirm the presence and source of the release including:

- location of groundwater samples/monitoring wells/water supply wells;
  - ***Sample & monitoring well locations are shown on Figure 4. There are no water supply wells on site. The locations of off-site water supply wells have not yet been evaluated. The site and surrounding area are supplied with municipal potable water from the City of Wilmington, so use of potable wells is unlikely.***
- date of sampling;
  - ***March 6, 2008***
- groundwater sample collection procedures (bailer, pump, etc.);
  - ***Groundwater samples were obtained via Geoprobe® Direct Push technology. Developed, purged and sampled with peristaltic pump and clean dedicated tubing (See Appendices). The wells/boreholes were properly abandoned following the completion of the site work.***
- groundwater sample identification;
  - ***TMW-1 through TMW-3***
- groundwater sample analyses;
  - ***See attached Table B-4***
  - ***Former waste Oil UST water analysis: Volatiles 6210D, 625+10Tics, MADEP EPH/VPH and chromium & lead 3030C.***
  - ***Former Wash Area water analysis: Volatiles 8260, Semi-Volatiles 625 and oil & grease.***
  - ***Former Diesel UST Area: 602+ xylenes, MADEP EPH/VPH and 625+10 Tics.***
- groundwater sample analytical results (list any contaminant above MDL)
  - ***See attached Table B-4. Groundwater analytical results indicate the presence of volatile organic compounds in temporary wells TMW-1 and TMW-2. These data were found to exceed the NCAC 2L Standards.***

TABLES

SB-1B

Table B- 3 Summary of Soil Sampling Results

Date: **03/28/08** Incident Number and Name: **RSC 1020 North Front Street** Facility ID#: _____

Analytical Method (e.g., VOC by EPA 8260) →			3051	3051	8015B	8015B								
Sample ID	**Contaminant of Concern →**		Chromium	Lead	TPH GRO	TPH DRO								
	Date Collected (m/dd/yy)	**Sample Depth** (ft BGS)												
Waste Oil SB1A	03-06-08	5'-6'	3.1	1.5	<5.0	<4.2								
Waste Oil SB1B	03-06-08	14'-16'	5.5	4.4	460	10								
Soil to groundwater MSCC (mg/kg)			27	270										
Residential MSCC (mg/kg)			47	400										
Industrial/Commercial MSCC (mg/kg)			1226	400										

- Indicate method detection limit for contaminants when analyzed, but not detected (e.g., < 1, 10, 42)
- List any contaminant detected above the method detection limit
- MSCC = maximum soil contamination concentration
- ft. BGS = feet below ground surface
- Results must be reported in mg/kg.

- mg/kg =milligrams per kilogram

Table B - 4 Summary of Groundwater Sampling Results

Date: **03/28/08** Incident Number and Name: **RSC 1020 North Front Street** Facility ID#: _____

Analytical Method (e.g., VOC by EPA 601) →			MAD EPH	6210D										
Contaminant of Concern →			C9-C18 Aliphatics	Tetrachloroethene										
Well ID	**Sample ID**	**Date Collected** (m/dd/yy)												
Waste Oil TMW1		03-06-08	240	3.7										
Wash Area TMW2		03-06-08	NA	4.5										
Diesel UST TMW3		03-06-08	190	NA										
2L Standard (ug/l)			4200	0.7										
GCL (ug/l)				700										

- Indicate method detection limit for contaminants when analyzed, but not detected (e.g., < 1, 10, 42)
- List any contaminant detected above the method detection limit
- Results must be reported in ug/l
- ug/L =micrograms per liter

- GCL = gross contamination level

FIGURES

0 2000' 4000'

APPROX. SCALE IN FEET

MACTEC

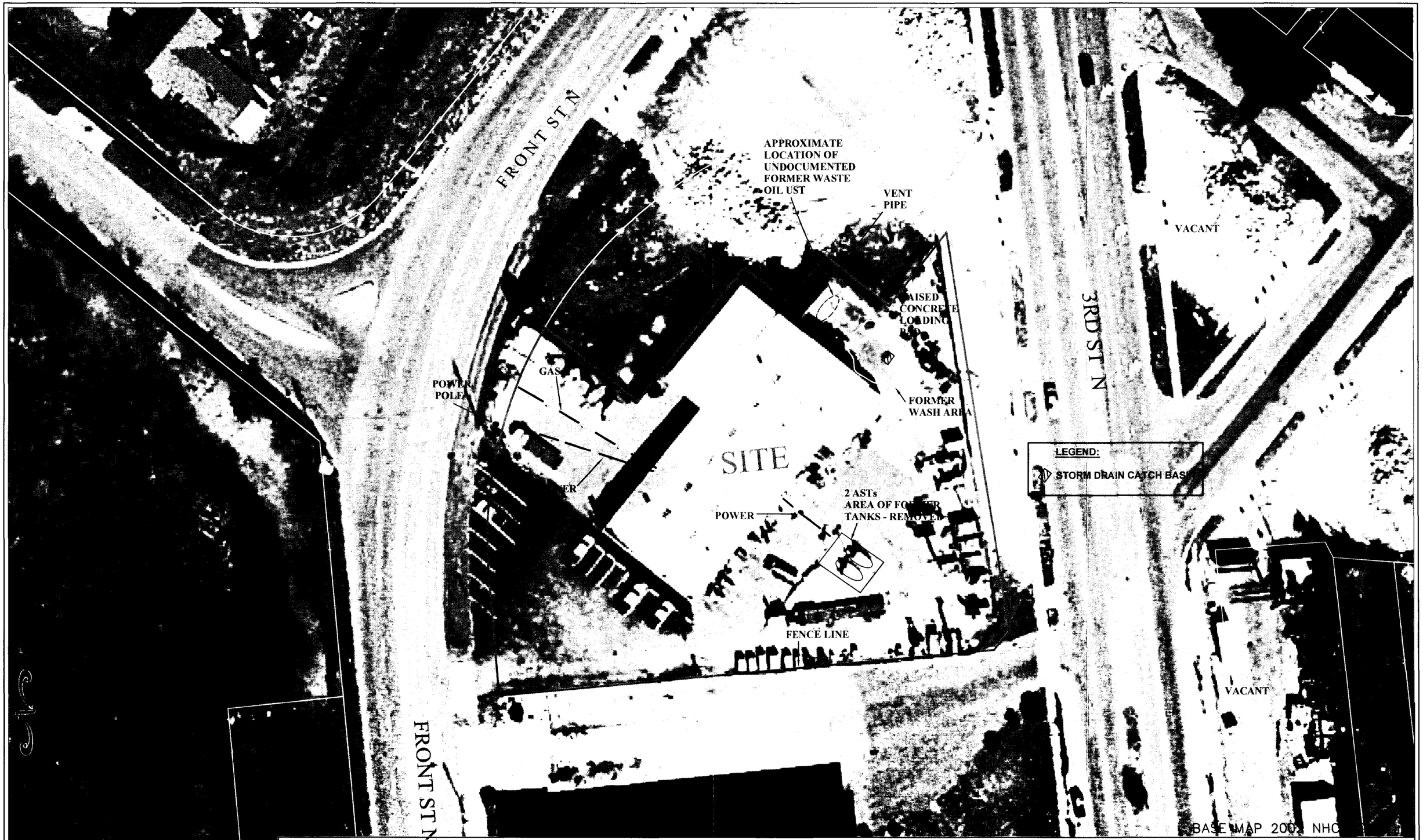
SITE LOCATION MAP

1020 NORTH FRONT STREET

WILMINGTON, NORTH CAROLINA

USGS TOPOQUAD, WILMINGTON, NC 1979

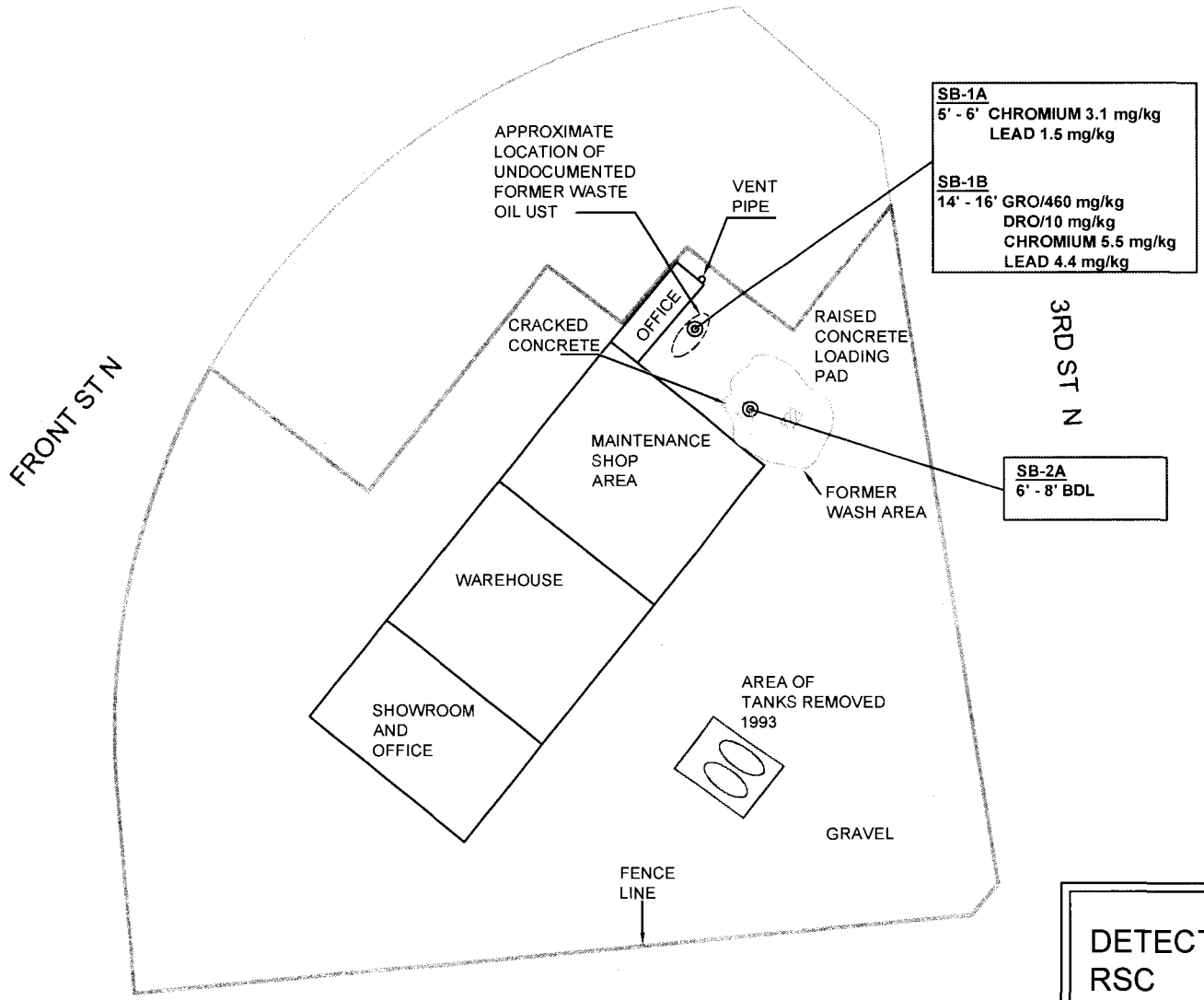
DRAWN: WBM	JOB #: 6550-08-0476
APPROVAL: KY	DATE: 4-4-08
SCALE: AS SHOWN	FIG. NO. 1



SITE MAP
RSC 1020 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA

MACTEC

DRAWN: WBM	JOB: 6550-08-0476
APPROVAL: KK	DATE: 1-4-08
SCALE: AS SHOWN	FIG: 2

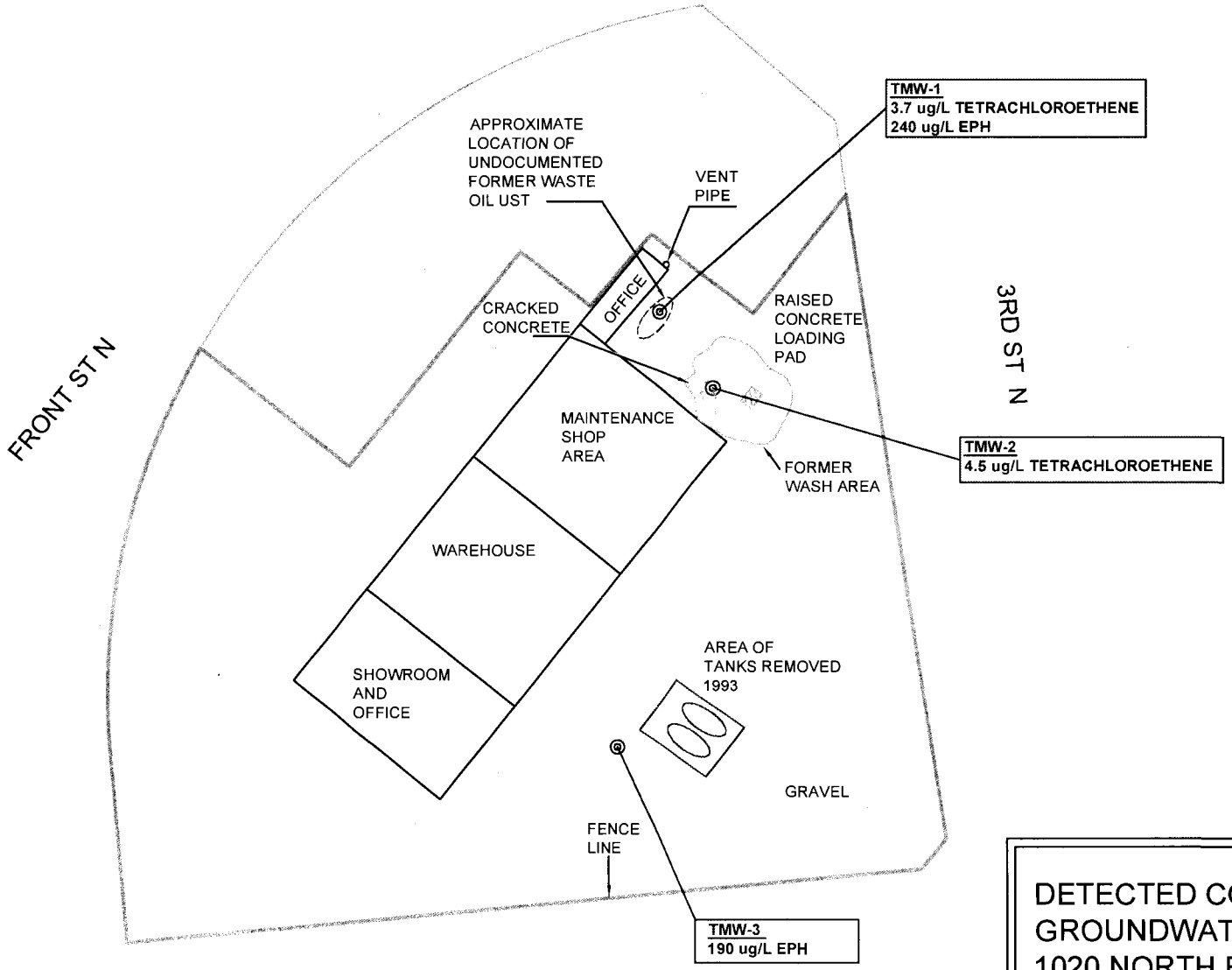


SB-1B LEGEND:
SOIL SAMPLE
STORM DRAIN CATCH BASIN

DETECTED COMPOUNDS IN SOIL
RSC
1020 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA

MACTEC

DRAWN:	WBM	JOB:	6550-08-0476
APPROVAL:	KLS	DATE:	4-4-08
SCALE:	N.T.S.	FIG:	3
REFERENCE:	2002 NHCO GIS		



LEGEND:
TMW-2 TEMPORARY MONITORING WELL
STORM DRAIN CATCH BASIN

DETECTED COMPOUNDS IN GROUNDWATER-RSC
1020 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA

MACTEC

DRAWN:	WBM	JOB:	6550-08-0476
APPROVAL:	KB	DATE:	4-4-08
SCALE:	N.T.S.	FIG:	4
REFERENCE:	2002 NHCO GIS		

BORING LOGS AND LITHOLOGIC DESCRIPTIONS

MACTEC ENGINEERING, INC.

5710 OLEANDER DR.
SUITE110
WILMINGTON, NC 28403
(910) 452-1185

SOIL BORING LOGS

PROJECT NUMBER:	**6550080476**	PROJECT NAME:	**RSC**		
BORING NUMBER:	**TMW-1**	COORDINATES	**SEE SITE MAP**		
ELEVATION:	**NA**	GWL: **16.01'**	DATE:	**3/6/08**	
GEOLOGIST/ENGINEER	**WJM**	DATE STARTED:	**3/6/08**		
DRILLING METHODS:	**Geoprobe (DPT)**	DATE COMPLETED:	**3/6/08**	PAGE 1 0F 1	

SAMPLE DEPTH (FT)	BLOWS ON SAMPLER PER 6 IN.	REC (IN)	DESCRIPTION	USCS SYMBOL	REMARKS
			(0.0' - 0.5') Concrete		
-5			(0.5'-11.5') Brown fine to med SAND (Fill)	sp	
-10					
-15			(11.5'-12.5') Light Brown fine to med SAND	sp	
-18			(12.5' - 20.0') Light Brown to Tan fine to med SAND	sp	
			Boring Terminated at 20.0 feet		

NOTES:

MACTEC ENGINEERING, INC.

5710 OLEANDER DR.
SUITE110
WILMINGTON, NC 28403
(910) 452-1185

SOIL BORING LOGS

PROJECT NUMBER:	**6550080476**	PROJECT NAME:	**RSC**		
BORING NUMBER:	**TMW-2**	COORDINATES	**SEE SITE MAP**		
ELEVATION:	**NA**	GWL: **15.66'**	DATE:	**3/6/08**	
GEOLOGIST/ENGINEER	**WJM**	DATE STARTED:	**3/6/08**		
DRILLING METHODS:	**Geoprobe (DPT)**	DATE COMPLETED:	**3/6/08**	PAGE 1 0F 1	

SAMPLE DEPTH (FT)	BLOWS ON SAMPLER PER 6 IN.	REC (IN)	DESCRIPTION	USCS SYMBOL	REMARKS
			(0.0' - 5.5") Concrete		
			(5.5"-1.0') Dark gray to black fine to meduim SAND	sp	
-5			(1.0'-6.0') Brown fine to medium SAND	sp	
				sp	
-10			(6.0'-14.0') Orange fine to mediaum SAND	sp	
-15			(14.0' - 15.0') Tan fine SAND, wet	sp	
-18					
			Boring Terminated at 19.0 feet		

NOTES:

WELL CONSTRUCTION RECORDS
(TABLE B-7)

Table B-7 Well Construction Information

Date: **03/28/08** Incident Number and Name: **RSC 1020 North Front Street** Facility ID#: _____

Well ID	Date Installed (m/dd/yy)	Date Water Level Measured (m/dd/yy)	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation* (ft.)	Depth to Water from Top of Casing (ft.)	Free Product Thickness ** (ft.)	Groundwater Elevation* (ft.)	Comments
TMW-1	03-06-08	03-06-08	20.0	16-20	20.0	NM	16.01	NA	NA	TOC not surveyed
TMW-2	03-06-08	03-06-08	19.0	15-19	19.0	NM	15.66	NA	NA	TOC not surveyed
TMW-3	03-06-08	03-06-08	21.0	17-21	21.0	NM	14.21	NA	NA	TOC not surveyed

* Reference Point for Elevation Measurements ground surface , Assumed Elevation: _____ ft.

** If free product is present in a well, groundwater elevation should be calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581]

ft BGS = feet below ground surface

FIELD MEASUREMENTS
RSC - 1020 NORTH FRONT STREET
Wilmington, NC
MACTEC Job No: 6550-08-0476

WELL ID	STATIC WATER LEVEL Ft bgs	FIELD ANALYSIS			
		TEMP ^0C	pH	COND µs/cm	TURBIDITY mg/L
TMW-1	16.01	22.4	7.34	316	10
TMW-2	15.66	21.1	5.55	360	3
TMW-3	14.21	20.8	5.83	202	18

NOTES:

Ft bgs = Feet Below Ground Surface

pH = Standard Units

Created by: KCS 04/03/08

Checked by: [illegible] 4.4.08

STANDARD PROCEDURES USED FOR SAMPLING,
FIELD EQUIPMENT DECONTAMINATION

BORING/MONITORING WELL INSTALLATION

MACTEC contracted with Carolina Drilling, Inc. to drill soil borings and install temporary monitoring wells at the RSC facility. On March 6, 2008, Carolina Drilling, Inc. drilled three borings for the installation of three shallow temporary monitoring wells (TMW-1 through TMW-3). The location of each boring/monitoring well installed at the site is presented on Figures 3 and 4.

The temporary wells were installed with Geoprobe® Direct Push Technology (DPT). Soil samples were collected using a closed tube sampler. The samples were visually described in the field and were recorded in a field logbook. Each temporary well consisted of a screen point sampler DPT device for sampling groundwater in unconsolidated materials. The device is a wire-wound, stainless steel screen having a 1.0-inch outside diameter and 0.004-inch screen slot. The stainless steel screen is sealed in a steel sheath to be driven to desired depth for development and sampling.

Down-hole drilling equipment was properly steam-cleaned prior to the advancement of each boring. No investigation derived waste was generated during sampling activites.

The depth of each well was approximately 20 feet bls. The well locations were selected based on the current and former site activities, where a release would likely occur.

GROUNDWATER MONITORING

On March 6, 2008, MACTEC personnel conducted groundwater monitoring activities on the temporary monitoring wells. A site map illustrating the monitoring well locations, structures and adjacent roads are presented in Figure 4.

Prior to purging and sampling the monitoring wells, water levels were collected from the temporary wells, using a pre-cleaned electronic water level meter.

The wells were developed using a peristaltic pump and clean dedicated high-density polyethylene (HDPE) tubing. Each of the three wells were then purged and sampled, using a peristaltic pump and associated dedicated HDPE tubing. A Hanna meter was used to measure temperature, conductivity and pH of the purge water. A HACH turbidity meter was used to measure turbidity. Groundwater samples were collected in laboratory prepared sample containers, placed in coolers filled with bagged ice, and were delivered to Environmental Science Corp (ECS), in Mt. Juliet, Tennessee, a North Carolina certified laboratory, for analysis of select parameters. A chain-of-custody record was maintained throughout the sample collection and shipment process.

BORING AND WELL ABANDONMENT

Upon completion of the sampling activities, the borings, and temporary monitoring wells, were abandoned. Each well screen/casing was removed and the bore holes were abandoned by using a forced injection (tremie) method to place neat cement grout in the borehole from the bottom up.

SAMPLE CONTAINERS AND PRESERVATIVES

Sample preservation was used to prevent or retard the degradation or modification of chemical compounds during transit and storage prior to laboratory extraction and analysis. Necessary preservatives were selected by the laboratory, ESC, based on the type of sample and required analyses. Preservatives were added to containers by the laboratory prior to sampling. Sample containers and preservation were based on the specific requirements listed in the selected methods. Samples requiring acid preservation

was checked in the field to ensure that the amount of preservative added to the sample containers is adequate.

Samples shipped for analysis were handled and packaged in a manner that maintains a complete chain-of-custody record and prevents damage during shipment. Samples were transported to the laboratory by a commercial carrier.

DECONTAMINATION PROCEDURES

The following is the standard procedure that was used for the Geoprobe® equipment. Equipment was cleaned prior to initial drilling and between boring stations. Cleaning and decontamination of all equipment occurred at a designated area on the site. Equipment was cleaned using a steam cleaner and/or high-pressure hot water washer.

Equipment that was steam cleaned was placed on racks or sawhorses at least two feet above the ground surface. After cleaning, surfaces were thoroughly rinsed. Cleaned equipment were allowed to air dry.

INSTRUMENT TESTING, CALIBRATION, & MAINTENANCE

Field sampling personnel are responsible for preventative maintenance of all field instruments. Field instruments will be transported and stored in protective cases or boxes during sampling activities. The field equipment was subject to a routine cleaning, calibration, and maintenance program before and after each use in accordance with the manufacturer's operation and maintenance manual. Necessary repairs were performed immediately after any defects are observed and before the item of equipment was used again. Equipment parts 'with a limited life (for example, batteries, lamps, etc.) were periodically checked and replaced or recharged as necessary in accordance with the manufacturer's specifications. Procedures applicable to properly maintaining and labeling equipment status were followed. Equipment was properly stored when not in use.

TANK TIGHTNESS TEST RESULTS ARE NOT AVAILABLE FOR FORMER UST'S DICUSSED IN THIS DOCUMENT

LABORATORY REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTS

ENVIRONMENTAL
SCIENCE CORP.

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

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Report Summary

Monday March 24, 2008

Report Number: L335011
Samples Received: 03/07/08
Client Project: 6550-08-0476 TASK01

Description: RSC 1020 North Front Street

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:

Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, 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, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-01

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : DIESEL UST TMW-3

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 15:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Petroleum Hydrocarbons	BDL	100	ug/l	MADEPV	03/11/08	1
C5-C8 Aliphatics	BDL	100	ug/l	MADEPV	03/11/08	1
C9-C12 Aliphatics	BDL	100	ug/l	MADEPV	03/11/08	1
C9-C10 Aromatics	BDL	100	ug/l	MADEPV	03/11/08	1
Surrogate Recovery						
2,5-Dibromotoluene(FID)	100.		% Rec.	MADEPV	03/11/08	1
2,5-Dibromotoluene(PID)	89.4		% Rec.	MADEPV	03/11/08	1
Volatile Organics						
Benzene	BDL	0.50	ug/l	602MS	03/10/08	1
Toluene	BDL	5.0	ug/l	602MS	03/10/08	1
Ethylbenzene	BDL	0.50	ug/l	602MS	03/10/08	1
Total Xylenes	BDL	1.5	ug/l	602MS	03/10/08	1
Methyl tert-butyl ether	BDL	1.0	ug/l	602MS	03/10/08	1
Di-isopropyl ether	BDL	1.0	ug/l	602MS	03/10/08	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	602MS	03/10/08	1
Dibromofluoromethane	103.		% Rec.	602MS	03/10/08	1
4-Bromofluorobenzene	99.0		% Rec.	602MS	03/10/08	1
Extractable Petroleum Hydrocarb	190	110	ug/l	MADEPE	03/14/08	1.1
C9-C18 Aliphatics	190	110	ug/l	MADEPE	03/14/08	1.1
C19-C36 Aliphatics	BDL	110	ug/l	MADEPE	03/14/08	1.1
C11-C22 Aromatics	BDL	110	ug/l	MADEPE	03/14/08	1.1
Surrogate Recovery						
o-Terphenyl	71.6		% Rec.	MADEPE	03/14/08	1.1
1-Chloro-octadecane	47.7		% Rec.	MADEPE	03/14/08	1.1
2-Fluorobiphenyl	98.9		% Rec.	MADEPE	03/14/08	1.1
2-Bromonaphthanene	105.		% Rec.	MADEPE	03/14/08	1.1
625 Base/Neutrals w/ TIC						
Acenaphthene	BDL	12.	ug/l	625	03/13/08	1.25
Acenaphthylene	BDL	12.	ug/l	625	03/13/08	1.25
Anthracene	BDL	12.	ug/l	625	03/13/08	1.25
Benzidine	BDL	62.	ug/l	625	03/13/08	1.25
Benzo(a)anthracene	BDL	12.	ug/l	625	03/13/08	1.25
Benzo(b)fluoranthene	BDL	12.	ug/l	625	03/13/08	1.25
Benzo(k)fluoranthene	BDL	12.	ug/l	625	03/13/08	1.25
Benzo(g,h,i)perylene	BDL	12.	ug/l	625	03/13/08	1.25
Benzo(a)pyrene	BDL	12.	ug/l	625	03/13/08	1.25
Bis(2-chlorethoxy)methane	BDL	12.	ug/l	625	03/13/08	1.25
Bis(2-chloroethyl)ether	BDL	12.	ug/l	625	03/13/08	1.25
Bis(2-chloroisopropyl)ether	BDL	12.	ug/l	625	03/13/08	1.25
4-Bromophenyl-phenylether	BDL	12.	ug/l	625	03/13/08	1.25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-01

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : DIESEL UST TMW-3

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 15:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Chloronaphthalene	BDL	12.	ug/l	625	03/13/08	1.25
4-Chlorophenyl-phenylether	BDL	12.	ug/l	625	03/13/08	1.25
Chrysene	BDL	12.	ug/l	625	03/13/08	1.25
Dibenz(a,h)anthracene	BDL	12.	ug/l	625	03/13/08	1.25
3,3-Dichlorobenzidine	BDL	12.	ug/l	625	03/13/08	1.25
2,4-Dinitrotoluene	BDL	12.	ug/l	625	03/13/08	1.25
2,6-Dinitrotoluene	BDL	12.	ug/l	625	03/13/08	1.25
Fluoranthene	BDL	12.	ug/l	625	03/13/08	1.25
Fluorene	BDL	12.	ug/l	625	03/13/08	1.25
Hexachlorobenzene	BDL	12.	ug/l	625	03/13/08	1.25
Hexachloro-1,3-butadiene	BDL	12.	ug/l	625	03/13/08	1.25
Hexachlorocyclopentadiene	BDL	12.	ug/l	625	03/13/08	1.25
Hexachloroethane	BDL	12.	ug/l	625	03/13/08	1.25
Indeno(1,2,3-cd)pyrene	BDL	12.	ug/l	625	03/13/08	1.25
Isophorone	BDL	12.	ug/l	625	03/13/08	1.25
Naphthalene	BDL	12.	ug/l	625	03/13/08	1.25
Nitrobenzene	BDL	12.	ug/l	625	03/13/08	1.25
n-Nitrosodimethylamine	BDL	62.	ug/l	625	03/13/08	1.25
n-Nitrosodiphenylamine	BDL	12.	ug/l	625	03/13/08	1.25
n-Nitrosodi-n-propylamine	BDL	12.	ug/l	625	03/13/08	1.25
Phenanthrene	BDL	12.	ug/l	625	03/13/08	1.25
Benzylbutyl phthalate	BDL	12.	ug/l	625	03/13/08	1.25
Bis(2-ethylhexyl)phthalate	BDL	12.	ug/l	625	03/13/08	1.25
Di-n-butyl phthalate	BDL	12.	ug/l	625	03/13/08	1.25
Diethyl phthalate	BDL	12.	ug/l	625	03/13/08	1.25
Dimethyl phthalate	BDL	12.	ug/l	625	03/13/08	1.25
Di-n-octyl phthalate	BDL	12.	ug/l	625	03/13/08	1.25
Pyrene	BDL	12.	ug/l	625	03/13/08	1.25
1,2,4-Trichlorobenzene	BDL	12.	ug/l	625	03/13/08	1.25
Acid Extractables						
4-Chloro-3-methylphenol	BDL	12.	ug/l	625	03/13/08	1.25
2-Chlorophenol	BDL	12.	ug/l	625	03/13/08	1.25
2,4-Dichlorophenol	BDL	12.	ug/l	625	03/13/08	1.25
2,4-Dimethylphenol	BDL	12.	ug/l	625	03/13/08	1.25
4,6-Dinitro-2-methylphenol	BDL	12.	ug/l	625	03/13/08	1.25
2,4-Dinitrophenol	BDL	12.	ug/l	625	03/13/08	1.25
2-Nitrophenol	BDL	12.	ug/l	625	03/13/08	1.25
4-Nitrophenol	BDL	12.	ug/l	625	03/13/08	1.25
Pentachlorophenol	BDL	12.	ug/l	625	03/13/08	1.25
Phenol	BDL	12.	ug/l	625	03/13/08	1.25
2,4,6-Trichlorophenol	BDL	12.	ug/l	625	03/13/08	1.25
Surrogate Recovery						
Nitrobenzene-d5	54.5		% Rec.	625	03/13/08	1.25
2-Fluorobiphenyl	62.5		% Rec.	625	03/13/08	1.25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-01

Site ID :

Project # : 6550-08-0476 TASK01

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Sample ID : DIESEL UST TMW-3

Collected By : Bill Mabie
Collection Date : 03/06/08 15:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
p-Terphenyl-d14	115.		% Rec.	625	03/13/08	1.25
Phenol-d5	24.9		% Rec.	625	03/13/08	1.25
2-Fluorophenol	31.3		% Rec.	625	03/13/08	1.25
2,4,6-Tribromophenol	57.0		% Rec.	625	03/13/08	1.25

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: 03/24/08 11:15 Printed: 03/24/08 11:16

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-02

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASTE OIL SB-1A 5-6F

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 11:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.2		%	2540G	03/12/08	1
Chromium	3.1	0.52	mg/kg	6010B	03/08/08	1
Lead	1.5	0.26	mg/kg	6010B	03/08/08	1
TPH (GC/FID) Low Fraction	BDL	5.0	mg/kg	GRO	03/12/08	48.5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.9		% Rec.	GRO	03/12/08	48.5
TPH (GC/FID) High Fraction	BDL	4.2	mg/kg	DRO	03/13/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	91.0		% Rec.	DRO	03/13/08	1
Pesticide/PCBs						
Aldrin	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Alpha BHC	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Beta BHC	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Delta BHC	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Gamma BHC	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Chlordane	BDL	1.0	mg/kg	8081/8082	03/13/08	5
4,4-DDD	BDL	0.10	mg/kg	8081/8082	03/13/08	5
4,4-DDE	BDL	0.10	mg/kg	8081/8082	03/13/08	5
4,4-DDT	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Dieldrin	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Endosulfan I	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Endosulfan II	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Endosulfan sulfate	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Endrin	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Endrin aldehyde	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Endrin ketone	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Heptachlor	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Heptachlor epoxide	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Hexachlorobenzene	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Methoxychlor	BDL	0.10	mg/kg	8081/8082	03/13/08	5
Toxaphene	BDL	2.1	mg/kg	8081/8082	03/13/08	5
PCB 1016	BDL	0.088	mg/kg	8081/8082	03/10/08	5
PCB 1221	BDL	0.088	mg/kg	8081/8082	03/10/08	5
PCB 1232	BDL	0.088	mg/kg	8081/8082	03/10/08	5
PCB 1242	BDL	0.088	mg/kg	8081/8082	03/10/08	5
PCB 1248	BDL	0.088	mg/kg	8081/8082	03/10/08	5
PCB 1254	BDL	0.088	mg/kg	8081/8082	03/10/08	5
PCB 1260	BDL	0.088	mg/kg	8081/8082	03/10/08	5
Pest/PCBs Surrogates						
Decachlorobiphenyl	70.7		% Rec.	8081/8082	03/10/08	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
L335011-02 (PESTICIDES/PCBS) - Non-target compounds too high to run at a lower dilution.
L335011-02 (GRO) - Cannot run lower, client sent only MeOH vial.

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-02

Site ID :

Project # : 6550-08-0476 TASK01

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Sample ID : WASTE OIL SB-1A 5-6F

Collected By : Bill Mabie
Collection Date : 03/06/08 11:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Tetrachloro-m-xylene	67.8		% Rec.	8081/8082	03/10/08	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 03/24/08 11:15 Printed: 03/24/08 11:16
L335011-02 (PESTICIDES/PCBS) - Non-target compounds too high to run at a lower dilution.
L335011-02 (GRO) - Cannot run lower, client sent only MeOH vial.

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-03

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASTE OIL TMW-1

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 13:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium	BDL	10.	ug/l	6010B	03/07/08	1
Lead	BDL	5.0	ug/l	6010B	03/07/08	1
Volatile Petroleum Hydrocarbons	BDL	100	ug/l	MADEPV	03/11/08	1
C5-C8 Aliphatics	BDL	100	ug/l	MADEPV	03/11/08	1
C9-C12 Aliphatics	BDL	100	ug/l	MADEPV	03/11/08	1
C9-C10 Aromatics	BDL	100	ug/l	MADEPV	03/11/08	1
Surrogate Recovery						
2,5-Dibromotoluene(FID)	100.		% Rec.	MADEPV	03/11/08	1
2,5-Dibromotoluene(PID)	89.4		% Rec.	MADEPV	03/11/08	1
Volatile Organics						
Acetone	BDL	50.	ug/l	6210D	03/11/08	1
Acrolein	BDL	50.	ug/l	6210D	03/11/08	1
Acrylonitrile	BDL	10.	ug/l	6210D	03/11/08	1
Benzene	BDL	1.0	ug/l	6210D	03/11/08	1
Bromobenzene	BDL	1.0	ug/l	6210D	03/11/08	1
Bromodichloromethane	BDL	1.0	ug/l	6210D	03/11/08	1
Bromoform	BDL	1.0	ug/l	6210D	03/11/08	1
Bromomethane	BDL	5.0	ug/l	6210D	03/11/08	1
n-Butylbenzene	BDL	1.0	ug/l	6210D	03/11/08	1
sec-Butylbenzene	BDL	1.0	ug/l	6210D	03/11/08	1
tert-Butylbenzene	BDL	1.0	ug/l	6210D	03/11/08	1
Carbon tetrachloride	BDL	1.0	ug/l	6210D	03/11/08	1
Chlorobenzene	BDL	1.0	ug/l	6210D	03/11/08	1
Chlorodibromomethane	BDL	1.0	ug/l	6210D	03/11/08	1
Chloroethane	BDL	5.0	ug/l	6210D	03/13/08	1
Chloroform	BDL	5.0	ug/l	6210D	03/11/08	1
Chloromethane	BDL	2.5	ug/l	6210D	03/11/08	1
2-Chlorotoluene	BDL	1.0	ug/l	6210D	03/11/08	1
4-Chlorotoluene	BDL	1.0	ug/l	6210D	03/11/08	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6210D	03/11/08	1
1,2-Dibromoethane	BDL	1.0	ug/l	6210D	03/11/08	1
Dibromomethane	BDL	1.0	ug/l	6210D	03/11/08	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6210D	03/11/08	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6210D	03/11/08	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6210D	03/11/08	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6210D	03/11/08	1
1,1-Dichloroethane	BDL	1.0	ug/l	6210D	03/11/08	1
1,2-Dichloroethane	BDL	1.0	ug/l	6210D	03/11/08	1
1,1-Dichloroethene	BDL	1.0	ug/l	6210D	03/11/08	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	6210D	03/11/08	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6210D	03/11/08	1
1,2-Dichloropropane	BDL	1.0	ug/l	6210D	03/11/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-03

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASTE OIL TMW-1

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 13:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	6210D	03/11/08	1
1,3-Dichloropropane	BDL	1.0	ug/l	6210D	03/11/08	1
2,2-Dichloropropane	BDL	1.0	ug/l	6210D	03/11/08	1
Di-isopropyl ether	BDL	1.0	ug/l	6210D	03/11/08	1
Ethylbenzene	BDL	1.0	ug/l	6210D	03/11/08	1
Hexachlorobutadiene	BDL	1.0	ug/l	6210D	03/11/08	1
Isopropylbenzene	BDL	1.0	ug/l	6210D	03/11/08	1
p-Isopropyltoluene	BDL	1.0	ug/l	6210D	03/11/08	1
2-Butanone (MEK)	BDL	10.	ug/l	6210D	03/11/08	1
Methylene Chloride	BDL	5.0	ug/l	6210D	03/11/08	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6210D	03/11/08	1
Methyl tert-butyl ether	BDL	1.0	ug/l	6210D	03/11/08	1
Naphthalene	BDL	5.0	ug/l	6210D	03/11/08	1
n-Propylbenzene	BDL	1.0	ug/l	6210D	03/11/08	1
Styrene	BDL	1.0	ug/l	6210D	03/11/08	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6210D	03/11/08	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6210D	03/11/08	1
Tetrachloroethene	3.7	1.0	ug/l	6210D	03/11/08	1
Toluene	BDL	5.0	ug/l	6210D	03/11/08	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6210D	03/11/08	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6210D	03/11/08	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6210D	03/11/08	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6210D	03/11/08	1
Trichloroethene	BDL	1.0	ug/l	6210D	03/11/08	1
Trichlorofluoromethane	BDL	5.0	ug/l	6210D	03/11/08	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	6210D	03/11/08	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6210D	03/11/08	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6210D	03/11/08	1
Vinyl chloride	BDL	1.0	ug/l	6210D	03/11/08	1
o-Xylene	BDL	1.0	ug/l	6210D	03/11/08	1
m&p-Xylenes	BDL	2.0	ug/l	6210D	03/11/08	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	6210D	03/11/08	1
Dibromofluoromethane	101.		% Rec.	6210D	03/11/08	1
4-Bromofluorobenzene	101.		% Rec.	6210D	03/11/08	1
Extractable Petroleum Hydrocarb	240	100	ug/l	MADEPE	03/15/08	1
C9-C18 Aliphatics	240	100	ug/l	MADEPE	03/15/08	1
C19-C36 Aliphatics	BDL	100	ug/l	MADEPE	03/15/08	1
C11-C22 Aromatics	BDL	100	ug/l	MADEPE	03/14/08	1
Surrogate Recovery						
o-Terphenyl	71.2		% Rec.	MADEPE	03/14/08	1
1-Chloro-octadecane	50.6		% Rec.	MADEPE	03/15/08	1
2-Fluorobiphenyl	99.9		% Rec.	MADEPE	03/14/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-03

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASTE OIL TMW-1

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 13:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Bromonaphthanene	90.4		% Rec.	MADEPE	03/14/08	1
625 Base/Neutrals w/ TIC						
Acenaphthene	BDL	11.	ug/l	625	03/13/08	1.14
Acenaphthylene	BDL	11.	ug/l	625	03/13/08	1.14
Anthracene	BDL	11.	ug/l	625	03/13/08	1.14
Benzidine	BDL	57.	ug/l	625	03/13/08	1.14
Benzo(a)anthracene	BDL	11.	ug/l	625	03/13/08	1.14
Benzo(b)fluoranthene	BDL	11.	ug/l	625	03/13/08	1.14
Benzo(k)fluoranthene	BDL	11.	ug/l	625	03/13/08	1.14
Benzo(g,h,i)perylene	BDL	11.	ug/l	625	03/13/08	1.14
Benzo(a)pyrene	BDL	11.	ug/l	625	03/13/08	1.14
Bis(2-chlorethoxy)methane	BDL	11.	ug/l	625	03/13/08	1.14
Bis(2-chloroethyl)ether	BDL	11.	ug/l	625	03/13/08	1.14
Bis(2-chloroisopropyl)ether	BDL	11.	ug/l	625	03/13/08	1.14
4-Bromophenyl-phenylether	BDL	11.	ug/l	625	03/13/08	1.14
2-Chloronaphthalene	BDL	11.	ug/l	625	03/13/08	1.14
4-Chlorophenyl-phenylether	BDL	11.	ug/l	625	03/13/08	1.14
Chrysene	BDL	11.	ug/l	625	03/13/08	1.14
Dibenz(a,h)anthracene	BDL	11.	ug/l	625	03/13/08	1.14
3,3-Dichlorobenzidine	BDL	11.	ug/l	625	03/13/08	1.14
2,4-Dinitrotoluene	BDL	11.	ug/l	625	03/13/08	1.14
2,6-Dinitrotoluene	BDL	11.	ug/l	625	03/13/08	1.14
Fluoranthene	BDL	11.	ug/l	625	03/13/08	1.14
Fluorene	BDL	11.	ug/l	625	03/13/08	1.14
Hexachlorobenzene	BDL	11.	ug/l	625	03/13/08	1.14
Hexachloro-1,3-butadiene	BDL	11.	ug/l	625	03/13/08	1.14
Hexachlorocyclopentadiene	BDL	11.	ug/l	625	03/13/08	1.14
Hexachloroethane	BDL	11.	ug/l	625	03/13/08	1.14
Indeno(1,2,3-cd)pyrene	BDL	11.	ug/l	625	03/13/08	1.14
Isophorone	BDL	11.	ug/l	625	03/13/08	1.14
Naphthalene	BDL	11.	ug/l	625	03/13/08	1.14
Nitrobenzene	BDL	11.	ug/l	625	03/13/08	1.14
n-Nitrosodimethylamine	BDL	57.	ug/l	625	03/13/08	1.14
n-Nitrosodiphenylamine	BDL	11.	ug/l	625	03/13/08	1.14
n-Nitrosodi-n-propylamine	BDL	11.	ug/l	625	03/13/08	1.14
Phenanthrene	BDL	11.	ug/l	625	03/13/08	1.14
Benzylbutyl phthalate	BDL	11.	ug/l	625	03/13/08	1.14
Bis(2-ethylhexyl)phthalate	BDL	11.	ug/l	625	03/13/08	1.14
Di-n-butyl phthalate	BDL	11.	ug/l	625	03/13/08	1.14
Diethyl phthalate	BDL	11.	ug/l	625	03/13/08	1.14
Dimethyl phthalate	BDL	11.	ug/l	625	03/13/08	1.14
Di-n-octyl phthalate	BDL	11.	ug/l	625	03/13/08	1.14
Pyrene	BDL	11.	ug/l	625	03/13/08	1.14

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-03

Site ID :

Project # : 6550-08-0476 TASK01

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Sample ID : WASTE OIL TMW-1

Collected By : Bill Mabie
Collection Date : 03/06/08 13:05

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2,4-Trichlorobenzene	BDL	11.	ug/l	625	03/13/08	1.14
Acid Extractables						
4-Chloro-3-methylphenol	BDL	11.	ug/l	625	03/13/08	1.14
2-Chlorophenol	BDL	11.	ug/l	625	03/13/08	1.14
2,4-Dichlorophenol	BDL	11.	ug/l	625	03/13/08	1.14
2,4-Dimethylphenol	BDL	11.	ug/l	625	03/13/08	1.14
4,6-Dinitro-2-methylphenol	BDL	11.	ug/l	625	03/13/08	1.14
2,4-Dinitrophenol	BDL	11.	ug/l	625	03/13/08	1.14
2-Nitrophenol	BDL	11.	ug/l	625	03/13/08	1.14
4-Nitrophenol	BDL	11.	ug/l	625	03/13/08	1.14
Pentachlorophenol	BDL	11.	ug/l	625	03/13/08	1.14
Phenol	BDL	11.	ug/l	625	03/13/08	1.14
2,4,6-Trichlorophenol	BDL	11.	ug/l	625	03/13/08	1.14
Surrogate Recovery						
Nitrobenzene-d5	64.2		% Rec.	625	03/13/08	1.14
2-Fluorobiphenyl	70.1		% Rec.	625	03/13/08	1.14
p-Terphenyl-d14	128.		% Rec.	625	03/13/08	1.14
Phenol-d5	32.8		% Rec.	625	03/13/08	1.14
2-Fluorophenol	45.2		% Rec.	625	03/13/08	1.14
2,4,6-Tribromophenol	85.6		% Rec.	625	03/13/08	1.14

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: 03/24/08 11:15 Printed: 03/24/08 11:16

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-04

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASH AREA SB-2A 6-8F

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	100	mg/kg	9071B	03/14/08	1
Total Solids	96.1		%	2540G	03/12/08	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260B	03/13/08	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	03/13/08	1
Benzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
Bromoform	BDL	0.0010	mg/kg	8260B	03/13/08	1
Bromomethane	BDL	0.0052	mg/kg	8260B	03/13/08	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	03/13/08	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
Chloroethane	BDL	0.0052	mg/kg	8260B	03/13/08	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260B	03/13/08	1
Chloroform	BDL	0.0052	mg/kg	8260B	03/13/08	1
Chloromethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	03/13/08	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260B	03/13/08	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260B	03/13/08	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	03/13/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	03/13/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	03/13/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	03/13/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	03/13/08	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	03/13/08	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	03/13/08	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-04

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASH AREA SB-2A 6-8F

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	03/13/08	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	03/13/08	1
Methylene Chloride	BDL	0.0052	mg/kg	8260B	03/13/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	03/13/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	03/13/08	1
Naphthalene	BDL	0.0052	mg/kg	8260B	03/13/08	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Styrene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Toluene	BDL	0.0052	mg/kg	8260B	03/13/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	03/13/08	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260B	03/13/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	03/13/08	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	03/13/08	1
Xylenes, Total	BDL	0.0031	mg/kg	8260B	03/13/08	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	03/13/08	1
Dibromofluoromethane	107.		% Rec.	8260B	03/13/08	1
4-Bromofluorobenzene	99.2		% Rec.	8260B	03/13/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 03/24/08 11:15 Printed: 03/24/08 11:16

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-05

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASH AREA TMW-2

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5000	ug/l	1664A	03/13/08	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	03/12/08	1
Acrolein	BDL	50.	ug/l	8260B	03/12/08	1
Acrylonitrile	BDL	10.	ug/l	8260B	03/12/08	1
Benzene	BDL	1.0	ug/l	8260B	03/12/08	1
Bromobenzene	BDL	1.0	ug/l	8260B	03/12/08	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	03/12/08	1
Bromoform	BDL	1.0	ug/l	8260B	03/12/08	1
Bromomethane	BDL	5.0	ug/l	8260B	03/12/08	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	03/12/08	1
Chlorobenzene	BDL	1.0	ug/l	8260B	03/12/08	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	03/12/08	1
Chloroethane	BDL	5.0	ug/l	8260B	03/12/08	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	03/12/08	1
Chloroform	BDL	5.0	ug/l	8260B	03/12/08	1
Chloromethane	BDL	2.5	ug/l	8260B	03/12/08	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	03/12/08	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	03/12/08	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	03/12/08	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	03/12/08	1
Dibromomethane	BDL	1.0	ug/l	8260B	03/12/08	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	03/12/08	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	03/12/08	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	03/12/08	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	03/12/08	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	03/12/08	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	03/12/08	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	03/12/08	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	03/12/08	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	03/12/08	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	03/12/08	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	03/12/08	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	03/12/08	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	03/12/08	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	03/12/08	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	03/12/08	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	03/12/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	03/12/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-05

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASH AREA TMW-2

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Isopropylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	03/12/08	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	03/12/08	1
Methylene Chloride	BDL	5.0	ug/l	8260B	03/12/08	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	03/12/08	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	03/12/08	1
Naphthalene	BDL	5.0	ug/l	8260B	03/12/08	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
Styrene	BDL	1.0	ug/l	8260B	03/12/08	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	03/12/08	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	03/12/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	03/12/08	1
Tetrachloroethene	4.5	1.0	ug/l	8260B	03/12/08	1
Toluene	BDL	5.0	ug/l	8260B	03/12/08	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	03/12/08	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	03/12/08	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	03/12/08	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	03/12/08	1
Trichloroethene	BDL	1.0	ug/l	8260B	03/12/08	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	03/12/08	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	03/12/08	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	03/12/08	1
Vinyl chloride	BDL	1.0	ug/l	8260B	03/12/08	1
Xylenes, Total	BDL	3.0	ug/l	8260B	03/12/08	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	03/12/08	1
Dibromofluoromethane	107.		% Rec.	8260B	03/12/08	1
4-Bromofluorobenzene	104.		% Rec.	8260B	03/12/08	1
625 Base/Neutrals w/ TIC						
Acenaphthene	BDL	12.	ug/l	625	03/13/08	1.18
Acenaphthylene	BDL	12.	ug/l	625	03/13/08	1.18
Anthracene	BDL	12.	ug/l	625	03/13/08	1.18
Benzidine	BDL	59.	ug/l	625	03/13/08	1.18
Benzo(a)anthracene	BDL	12.	ug/l	625	03/13/08	1.18
Benzo(b)fluoranthene	BDL	12.	ug/l	625	03/13/08	1.18
Benzo(k)fluoranthene	BDL	12.	ug/l	625	03/13/08	1.18
Benzo(g,h,i)perylene	BDL	12.	ug/l	625	03/13/08	1.18
Benzo(a)pyrene	BDL	12.	ug/l	625	03/13/08	1.18
Bis(2-chlorethoxy)methane	BDL	12.	ug/l	625	03/13/08	1.18
Bis(2-chloroethyl)ether	BDL	12.	ug/l	625	03/13/08	1.18
Bis(2-chloroisopropyl)ether	BDL	12.	ug/l	625	03/13/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-05

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : WASH AREA TMW-2

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
4-Bromophenyl-phenylether	BDL	12.	ug/l	625	03/13/08	1.18
2-Chloronaphthalene	BDL	12.	ug/l	625	03/13/08	1.18
4-Chlorophenyl-phenylether	BDL	12.	ug/l	625	03/13/08	1.18
Chrysene	BDL	12.	ug/l	625	03/13/08	1.18
Dibenz(a,h)anthracene	BDL	12.	ug/l	625	03/13/08	1.18
3,3-Dichlorobenzidine	BDL	12.	ug/l	625	03/13/08	1.18
2,4-Dinitrotoluene	BDL	12.	ug/l	625	03/13/08	1.18
2,6-Dinitrotoluene	BDL	12.	ug/l	625	03/13/08	1.18
Fluoranthene	BDL	12.	ug/l	625	03/13/08	1.18
Fluorene	BDL	12.	ug/l	625	03/13/08	1.18
Hexachlorobenzene	BDL	12.	ug/l	625	03/13/08	1.18
Hexachloro-1,3-butadiene	BDL	12.	ug/l	625	03/13/08	1.18
Hexachlorocyclopentadiene	BDL	12.	ug/l	625	03/13/08	1.18
Hexachloroethane	BDL	12.	ug/l	625	03/13/08	1.18
Indeno(1,2,3-cd)pyrene	BDL	12.	ug/l	625	03/13/08	1.18
Isophorone	BDL	12.	ug/l	625	03/13/08	1.18
Naphthalene	BDL	12.	ug/l	625	03/13/08	1.18
Nitrobenzene	BDL	12.	ug/l	625	03/13/08	1.18
n-Nitrosodimethylamine	BDL	59.	ug/l	625	03/13/08	1.18
n-Nitrosodiphenylamine	BDL	12.	ug/l	625	03/13/08	1.18
n-Nitrosodi-n-propylamine	BDL	12.	ug/l	625	03/13/08	1.18
Phenanthrene	BDL	12.	ug/l	625	03/13/08	1.18
Benzylbutyl phthalate	BDL	12.	ug/l	625	03/13/08	1.18
Bis(2-ethylhexyl)phthalate	BDL	12.	ug/l	625	03/13/08	1.18
Di-n-butyl phthalate	BDL	12.	ug/l	625	03/13/08	1.18
Diethyl phthalate	BDL	12.	ug/l	625	03/13/08	1.18
Dimethyl phthalate	BDL	12.	ug/l	625	03/13/08	1.18
Di-n-octyl phthalate	BDL	12.	ug/l	625	03/13/08	1.18
Pyrene	BDL	12.	ug/l	625	03/13/08	1.18
1,2,4-Trichlorobenzene	BDL	12.	ug/l	625	03/13/08	1.18
Acid Extractables						
4-Chloro-3-methylphenol	BDL	12.	ug/l	625	03/13/08	1.18
2-Chlorophenol	BDL	12.	ug/l	625	03/13/08	1.18
2,4-Dichlorophenol	BDL	12.	ug/l	625	03/13/08	1.18
2,4-Dimethylphenol	BDL	12.	ug/l	625	03/13/08	1.18
4,6-Dinitro-2-methylphenol	BDL	12.	ug/l	625	03/13/08	1.18
2,4-Dinitrophenol	BDL	12.	ug/l	625	03/13/08	1.18
2-Nitrophenol	BDL	12.	ug/l	625	03/13/08	1.18
4-Nitrophenol	BDL	12.	ug/l	625	03/13/08	1.18
Pentachlorophenol	BDL	12.	ug/l	625	03/13/08	1.18
Phenol	BDL	12.	ug/l	625	03/13/08	1.18
2,4,6-Trichlorophenol	BDL	12.	ug/l	625	03/13/08	1.18
Surrogate Recovery						
Nitrobenzene-d5	55.9		% Rec.	625	03/13/08	1.18

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-05

Site ID :

Project # : 6550-08-0476 TASK01

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Sample ID : WASH AREA TMW-2

Collected By : Bill Mabie
Collection Date : 03/06/08 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Fluorobiphenyl	62.2		% Rec.	625	03/13/08	1.18
p-Terphenyl-d14	116.		% Rec.	625	03/13/08	1.18
Phenol-d5	30.3		% Rec.	625	03/13/08	1.18
2-Fluorophenol	41.4		% Rec.	625	03/13/08	1.18
2,4,6-Tribromophenol	75.7		% Rec.	625	03/13/08	1.18

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: 03/24/08 11:15 Printed: 03/24/08 11:16

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-06

Site ID :

Project # : 6550-08-0476 TASK01

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Sample ID : WASTE OIL SB1B 14-16

Collected By : Bill Mabie
Collection Date : 03/06/08 11:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.2		%	2540G	03/12/08	1
Chromium	5.5	0.53	mg/kg	6010B	03/08/08	1
Lead	4.4	0.26	mg/kg	6010B	03/08/08	1
TPH (GC/FID) Low Fraction	460	11.	mg/kg	GRO	03/13/08	100
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.9		% Rec.	GRO	03/13/08	100
TPH (GC/FID) High Fraction	10.	4.2	mg/kg	DRO	03/13/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	75.3		% Rec.	DRO	03/13/08	1
Pesticide/PCBs						
Aldrin	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Alpha BHC	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Beta BHC	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Delta BHC	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Gamma BHC	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Chlordane	BDL	0.21	mg/kg	8081/8082	03/13/08	1
4,4-DDD	BDL	0.021	mg/kg	8081/8082	03/13/08	1
4,4-DDE	BDL	0.021	mg/kg	8081/8082	03/13/08	1
4,4-DDT	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Dieldrin	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Endosulfan I	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Endosulfan II	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Endosulfan sulfate	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Endrin	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Endrin aldehyde	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Endrin ketone	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Heptachlor	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Heptachlor epoxide	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Hexachlorobenzene	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Methoxychlor	BDL	0.021	mg/kg	8081/8082	03/13/08	1
Toxaphene	BDL	0.42	mg/kg	8081/8082	03/13/08	1
PCB 1016	BDL	0.090	mg/kg	8081/8082	03/10/08	5
PCB 1221	BDL	0.090	mg/kg	8081/8082	03/10/08	5
PCB 1232	BDL	0.090	mg/kg	8081/8082	03/10/08	5
PCB 1242	BDL	0.090	mg/kg	8081/8082	03/10/08	5
PCB 1248	BDL	0.090	mg/kg	8081/8082	03/10/08	5
PCB 1254	BDL	0.090	mg/kg	8081/8082	03/10/08	5
PCB 1260	BDL	0.090	mg/kg	8081/8082	03/10/08	5
Pest/PCBs Surrogates						
Decachlorobiphenyl	59.5		% Rec.	8081/8082	03/13/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-06

Site ID :

Project # : 6550-08-0476 TASK01

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Sample ID : WASTE OIL SB1B 14-16

Collected By : Bill Mabie
Collection Date : 03/06/08 11:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Tetrachloro-m-xylene	78.0		% Rec.	8081/8082	03/13/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
This report shall not be reproduced, except in full, without the written approval from ESC.
The reported analytical results relate only to the sample submitted
Reported: 03/24/08 11:15 Printed: 03/24/08 11:16

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-07

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : TRIP BLANK

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	03/13/08	1
Acrolein	BDL	50.	ug/l	8260B	03/13/08	1
Acrylonitrile	BDL	10.	ug/l	8260B	03/13/08	1
Benzene	BDL	1.0	ug/l	8260B	03/13/08	1
Bromobenzene	BDL	1.0	ug/l	8260B	03/13/08	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	03/13/08	1
Bromoform	BDL	1.0	ug/l	8260B	03/13/08	1
Bromomethane	BDL	5.0	ug/l	8260B	03/13/08	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	03/13/08	1
Chlorobenzene	BDL	1.0	ug/l	8260B	03/13/08	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	03/13/08	1
Chloroethane	BDL	5.0	ug/l	8260B	03/13/08	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	03/13/08	1
Chloroform	BDL	5.0	ug/l	8260B	03/13/08	1
Chloromethane	BDL	2.5	ug/l	8260B	03/13/08	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	03/13/08	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	03/13/08	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	03/13/08	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	03/13/08	1
Dibromomethane	BDL	1.0	ug/l	8260B	03/13/08	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	03/13/08	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	03/13/08	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	03/13/08	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	03/13/08	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	03/13/08	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	03/13/08	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	03/13/08	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	03/13/08	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	03/13/08	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	03/13/08	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	03/13/08	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	03/13/08	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	03/13/08	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	03/13/08	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	03/13/08	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	03/13/08	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
Hexachlorobutadiene	BDL	1.0	ug/l	8260B	03/13/08	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	03/13/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

ENVIRONMENTAL
SCIENCE CORP.

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

REPORT OF ANALYSIS

Kim Charles-Smith
MACTEC - Wilmington, NC
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

March 24,2008

ESC Sample # : L335011-07

Date Received : March 07, 2008
Description : RSC 1020 North Front Street

Site ID :

Sample ID : TRIP BLANK

Project # : 6550-08-0476 TASK01

Collected By : Bill Mabie
Collection Date : 03/06/08 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	03/13/08	1
Methylene Chloride	BDL	5.0	ug/l	8260B	03/13/08	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	03/13/08	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	03/13/08	1
Naphthalene	BDL	5.0	ug/l	8260B	03/13/08	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
Styrene	BDL	1.0	ug/l	8260B	03/13/08	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	03/13/08	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	03/13/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	03/13/08	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	03/13/08	1
Toluene	BDL	5.0	ug/l	8260B	03/13/08	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	03/13/08	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	03/13/08	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	03/13/08	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	03/13/08	1
Trichloroethene	BDL	1.0	ug/l	8260B	03/13/08	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	03/13/08	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	03/13/08	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	03/13/08	1
Vinyl chloride	BDL	1.0	ug/l	8260B	03/13/08	1
Xylenes, Total	BDL	3.0	ug/l	8260B	03/13/08	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	03/13/08	1
Dibromofluoromethane	101.		% Rec.	8260B	03/13/08	1
4-Bromofluorobenzene	103.		% Rec.	8260B	03/13/08	1

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: 03/24/08 11:15 Printed: 03/24/08 11:16

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L335011-01	Anthracene	J3
	Benzidine	J4
	Chrysene	J3
	2,6-Dinitrotoluene	J3
	Fluorene	J3
	Hexachlorobenzene	J3
	n-Nitrosodimethylamine	J3
	n-Nitrosodiphenylamine	J3
	Phenanthrene	J3
	Di-n-butyl phthalate	J3
	Diethyl phthalate	J3
	Dimethyl phthalate	J3
	4-Chloro-3-methylphenol	J3
	2,4-Dichlorophenol	J3
	Phenol	J3
L335011-02	Aldrin	O
	Alpha BHC	O
	Beta BHC	O
	Delta BHC	O
	Gamma BHC	O
	Chlordane	O
	4,4-DDD	O
	4,4-DDE	O
	4,4-DDT	O
	Dieldrin	O
	Endosulfan I	O
	Endosulfan II	O
	Endosulfan sulfate	O
	Endrin	O
	Endrin aldehyde	O
	Endrin ketone	O
	Heptachlor	O
	Heptachlor epoxide	O
	Hexachlorobenzene	O
	Methoxychlor	O
	Toxaphene	O
L335011-03	Chloroethane	J4
	Anthracene	J3
	Benzidine	J4
	Benzo(b)fluoranthene	V3
	Benzo(k)fluoranthene	V3
	Benzo(g,h,i)perylene	V3
	Benzo(a)pyrene	V3
	Chrysene	J3
	Dibenz(a,h)anthracene	V3
	2,6-Dinitrotoluene	J3
	Fluorene	J3
	Hexachlorobenzene	J3
	Indeno(1,2,3-cd)pyrene	V3
	n-Nitrosodimethylamine	J3
	n-Nitrosodiphenylamine	J3
	Phenanthrene	J3
	Di-n-butyl phthalate	J3
	Diethyl phthalate	J3
	Dimethyl phthalate	J3
	4-Chloro-3-methylphenol	J3
	2,4-Dichlorophenol	J3
	Phenol	J3
L335011-04	Tetrachloroethene	J4
	Xylenes, Total	J4
L335011-05	Anthracene	J3
	Benzidine	J4
	Benzo(a)anthracene	V3
	Benzo(b)fluoranthene	V3
	Benzo(k)fluoranthene	V3
	Benzo(g,h,i)perylene	V3
	Benzo(a)pyrene	V3
	Chrysene	V3J3
	2,6-Dinitrotoluene	J3

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Fluorene	J3
	Hexachlorobenzene	J3
	Indeno(1,2,3-cd)pyrene	V3
	n-Nitrosodimethylamine	J3
	n-Nitrosodiphenylamine	J3
	Phenanthrene	J3
	Di-n-butyl phthalate	J3
	Diethyl phthalate	J3
	Dimethyl phthalate	J3
	Pyrene	V3
	4-Chloro-3-methylphenol	J3
	2,4-Dichlorophenol	J3
	Phenol	J3
L335011-07	Naphthalene	J3
	1,2,3-Trichlorobenzene	J4J3
	1,2,4-Trichlorobenzene	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
V3	(ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

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 Differrence.

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.

ENVIRONMENTAL SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Chromium	< .5	mg/kg	03/08/08 18:05	WG348817
Lead	< .25	mg/kg	03/08/08 18:05	WG348817
Chromium	< .01	mg/l	03/07/08 18:33	WG348833
Lead	< .005	mg/l	03/07/08 18:33	WG348833
4,4-DDD	< .02	mg/kg	03/12/08 12:20	WG349011
4,4-DDE	< .02	mg/kg	03/12/08 12:20	WG349011
4,4-DDT	< .02	mg/kg	03/12/08 12:20	WG349011
Aldrin	< .02	mg/kg	03/12/08 12:20	WG349011
Alpha BHC	< .02	mg/kg	03/12/08 12:20	WG349011
Beta BHC	< .02	mg/kg	03/12/08 12:20	WG349011
Chlordane	< .2	mg/kg	03/12/08 12:20	WG349011
Delta BHC	< .02	mg/kg	03/12/08 12:20	WG349011
Dieldrin	< .02	mg/kg	03/12/08 12:20	WG349011
Endosulfan I	< .02	mg/kg	03/12/08 12:20	WG349011
Endosulfan II	< .02	mg/kg	03/12/08 12:20	WG349011
Endosulfan sulfate	< .02	mg/kg	03/12/08 12:20	WG349011
Endrin	< .02	mg/kg	03/12/08 12:20	WG349011
Endrin aldehyde	< .02	mg/kg	03/12/08 12:20	WG349011
Endrin ketone	< .02	mg/kg	03/12/08 12:20	WG349011
Gamma BHC	< .02	mg/kg	03/12/08 12:20	WG349011
Heptachlor	< .02	mg/kg	03/12/08 12:20	WG349011
Heptachlor epoxide	< .02	mg/kg	03/12/08 12:20	WG349011
Hexachlorobenzene	< .02	mg/kg	03/12/08 12:20	WG349011
Methoxychlor	< .02	mg/kg	03/12/08 12:20	WG349011
PCB 1016	< .017	mg/kg	03/10/08 19:57	WG349011
PCB 1221	< .017	mg/kg	03/10/08 19:57	WG349011
PCB 1232	< .017	mg/kg	03/10/08 19:57	WG349011
PCB 1242	< .017	mg/kg	03/10/08 19:57	WG349011
PCB 1248	< .017	mg/kg	03/10/08 19:57	WG349011
PCB 1254	< .017	mg/kg	03/10/08 19:57	WG349011
PCB 1260	< .017	mg/kg	03/10/08 19:57	WG349011
Toxaphene	< .4	mg/kg	03/12/08 12:20	WG349011
Benzene	< .001	mg/l	03/10/08 15:50	WG349168
Di-isopropyl ether	< .001	mg/l	03/10/08 15:50	WG349168
Ethylbenzene	< .001	mg/l	03/10/08 15:50	WG349168
Methyl tert-butyl ether	< .001	mg/l	03/10/08 15:50	WG349168
Toluene	< .005	mg/l	03/10/08 15:50	WG349168
Total Xylenes	< .003	mg/l	03/10/08 15:50	WG349168
Total Solids	< .1	%	03/12/08 10:20	WG349253
Total Solids	< .1	%	03/12/08 10:13	WG349254
1,1,1,2-Tetrachloroethane	< .001	mg/l	03/12/08 02:51	WG349361
1,1,1-Trichloroethane	< .001	mg/l	03/12/08 02:51	WG349361
1,1,2,2-Tetrachloroethane	< .001	mg/l	03/12/08 02:51	WG349361
1,1,2-Trichloroethane	< .001	mg/l	03/12/08 02:51	WG349361
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l	03/12/08 02:51	WG349361
1,1-Dichloroethane	< .001	mg/l	03/12/08 02:51	WG349361
1,1-Dichloroethene	< .001	mg/l	03/12/08 02:51	WG349361
1,1-Dichloropropene	< .001	mg/l	03/12/08 02:51	WG349361
1,2,3-Trichlorobenzene	< .001	mg/l	03/12/08 02:51	WG349361
1,2,3-Trichloropropane	< .001	mg/l	03/12/08 02:51	WG349361
1,2,3-Trimethylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
1,2,4-Trichlorobenzene	< .001	mg/l	03/12/08 02:51	WG349361
1,2,4-Trimethylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
1,2-Dibromo-3-Chloropropane	< .005	mg/l	03/12/08 02:51	WG349361

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

1,2-Dibromoethane	< .001	mg/l	03/12/08 02:51	WG349361

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,2-Dichlorobenzene	< .001	mg/l	03/12/08 02:51	WG349361
1,2-Dichloroethane	< .001	mg/l	03/12/08 02:51	WG349361
1,2-Dichloropropane	< .001	mg/l	03/12/08 02:51	WG349361
1,3,5-Trimethylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
1,3-Dichlorobenzene	< .001	mg/l	03/12/08 02:51	WG349361
1,3-Dichloropropane	< .001	mg/l	03/12/08 02:51	WG349361
1,4-Dichlorobenzene	< .001	mg/l	03/12/08 02:51	WG349361
2,2-Dichloropropane	< .001	mg/l	03/12/08 02:51	WG349361
2-Butanone (MEK)	< .01	mg/l	03/12/08 02:51	WG349361
2-Chloroethyl vinyl ether	< .001	mg/l	03/12/08 02:51	WG349361
2-Chlorotoluene	< .001	mg/l	03/12/08 02:51	WG349361
4-Chlorotoluene	< .001	mg/l	03/12/08 02:51	WG349361
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	03/12/08 02:51	WG349361
Acetone	< .05	mg/l	03/12/08 02:51	WG349361
Acrolein	< .05	mg/l	03/12/08 02:51	WG349361
Acrylonitrile	< .01	mg/l	03/12/08 02:51	WG349361
Benzene	< .001	mg/l	03/12/08 02:51	WG349361
Bromobenzene	< .001	mg/l	03/12/08 02:51	WG349361
Bromodichloromethane	< .001	mg/l	03/12/08 02:51	WG349361
Bromoform	< .001	mg/l	03/12/08 02:51	WG349361
Bromomethane	< .005	mg/l	03/12/08 02:51	WG349361
Carbon tetrachloride	< .001	mg/l	03/12/08 02:51	WG349361
Chlorobenzene	< .001	mg/l	03/12/08 02:51	WG349361
Chlorodibromomethane	< .001	mg/l	03/12/08 02:51	WG349361
Chloroethane	< .001	mg/l	03/12/08 02:51	WG349361
Chloroform	< .005	mg/l	03/12/08 02:51	WG349361
Chloromethane	< .001	mg/l	03/12/08 02:51	WG349361
cis-1,2-Dichloroethene	< .001	mg/l	03/12/08 02:51	WG349361
cis-1,3-Dichloropropene	< .001	mg/l	03/12/08 02:51	WG349361
Di-isopropyl ether	< .001	mg/l	03/12/08 02:51	WG349361
Dibromomethane	< .001	mg/l	03/12/08 02:51	WG349361
Dichlorodifluoromethane	< .005	mg/l	03/12/08 02:51	WG349361
Ethylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
Hexachlorobutadiene	< .001	mg/l	03/12/08 02:51	WG349361
Isopropylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
Methyl tert-butyl ether	< .001	mg/l	03/12/08 02:51	WG349361
Methylene Chloride	< .005	mg/l	03/12/08 02:51	WG349361
n-Butylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
n-Propylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
Naphthalene	< .005	mg/l	03/12/08 02:51	WG349361
p-Isopropyltoluene	< .001	mg/l	03/12/08 02:51	WG349361
sec-Butylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
Styrene	< .001	mg/l	03/12/08 02:51	WG349361
tert-Butylbenzene	< .001	mg/l	03/12/08 02:51	WG349361
Toluene	< .005	mg/l	03/12/08 02:51	WG349361
trans-1,2-Dichloroethene	< .001	mg/l	03/12/08 02:51	WG349361
trans-1,3-Dichloropropene	< .001	mg/l	03/12/08 02:51	WG349361
Trichloroethene	< .001	mg/l	03/12/08 02:51	WG349361
Trichlorofluoromethane	< .005	mg/l	03/12/08 02:51	WG349361
Vinyl chloride	< .001	mg/l	03/12/08 02:51	WG349361
Xylenes, Total	< .003	mg/l	03/12/08 02:51	WG349361
1,1,1,2-Tetrachloroethane	< .001	mg/l	03/11/08 18:24	WG349407
1,1,1-Trichloroethane	< .001	mg/l	03/11/08 18:24	WG349407
1,1,2,2-Tetrachloroethane	< .001	mg/l	03/11/08 18:24	WG349407
1,1,2-Trichloroethane	< .001	mg/l	03/11/08 18:24	WG349407
1,1-Dichloroethane	< .001	mg/l	03/11/08 18:24	WG349407
1,1-Dichloroethene	< .001	mg/l	03/11/08 18:24	WG349407
1,1-Dichloropropene	< .001	mg/l	03/11/08 18:24	WG349407

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

1,2,3-Trichlorobenzene	< .001	mg/l	03/11/08 18:24	WG349407

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,2,3-Trichloropropane	< .001	mg/l	03/11/08 18:24	WG349407
1,2,4-Trichlorobenzene	< .001	mg/l	03/11/08 18:24	WG349407
1,2,4-Trimethylbenzene	< .001	mg/l	03/11/08 18:24	WG349407
1,2-Dibromo-3-Chloropropane	< .005	mg/l	03/11/08 18:24	WG349407
1,2-Dibromoethane	< .001	mg/l	03/11/08 18:24	WG349407
1,2-Dichlorobenzene	< .001	mg/l	03/11/08 18:24	WG349407
1,2-Dichloroethane	< .001	mg/l	03/11/08 18:24	WG349407
1,2-Dichloropropane	< .001	mg/l	03/11/08 18:24	WG349407
1,3,5-Trimethylbenzene	< .001	mg/l	03/11/08 18:24	WG349407
1,3-Dichlorobenzene	< .001	mg/l	03/11/08 18:24	WG349407
1,3-Dichloropropane	< .001	mg/l	03/11/08 18:24	WG349407
1,4-Dichlorobenzene	< .001	mg/l	03/11/08 18:24	WG349407
2,2-Dichloropropane	< .001	mg/l	03/11/08 18:24	WG349407
2-Butanone (MEK)	< .01	mg/l	03/11/08 18:24	WG349407
2-Chlorotoluene	< .001	mg/l	03/11/08 18:24	WG349407
4-Chlorotoluene	< .001	mg/l	03/11/08 18:24	WG349407
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	03/11/08 18:24	WG349407
Acetone	< .05	mg/l	03/11/08 18:24	WG349407
Acrolein	< .05	mg/l	03/11/08 18:24	WG349407
Acrylonitrile	< .01	mg/l	03/11/08 18:24	WG349407
Benzene	< .001	mg/l	03/11/08 18:24	WG349407
Bromobenzene	< .001	mg/l	03/11/08 18:24	WG349407
Bromodichloromethane	< .001	mg/l	03/11/08 18:24	WG349407
Bromoform	< .001	mg/l	03/11/08 18:24	WG349407
Bromomethane	< .005	mg/l	03/11/08 18:24	WG349407
Carbon tetrachloride	< .001	mg/l	03/11/08 18:24	WG349407
Chlorobenzene	< .001	mg/l	03/11/08 18:24	WG349407
Chlorodibromomethane	< .001	mg/l	03/11/08 18:24	WG349407
Chloroform	< .005	mg/l	03/11/08 18:24	WG349407
Chloromethane	< .001	mg/l	03/11/08 18:24	WG349407
cis-1,2-Dichloroethene	< .001	mg/l	03/11/08 18:24	WG349407
Di-isopropyl ether	< .001	mg/l	03/11/08 18:24	WG349407
Dibromomethane	< .001	mg/l	03/11/08 18:24	WG349407
Dichlorodifluoromethane	< .005	mg/l	03/11/08 18:24	WG349407
Ethylbenzene	< .001	mg/l	03/11/08 18:24	WG349407
Hexachlorobutadiene	< .001	mg/l	03/11/08 18:24	WG349407
Isopropylbenzene	< .001	mg/l	03/11/08 18:24	WG349407
m&p-Xylenes	< .002	mg/l	03/11/08 18:24	WG349407
Methyl tert-butyl ether	< .001	mg/l	03/11/08 18:24	WG349407
Methylene Chloride	< .005	mg/l	03/11/08 18:24	WG349407
n-Butylbenzene	< .001	mg/l	03/11/08 18:24	WG349407
n-Propylbenzene	< .001	mg/l	03/11/08 18:24	WG349407
Naphthalene	< .005	mg/l	03/11/08 18:24	WG349407
o-Xylene	< .001	mg/l	03/11/08 18:24	WG349407
p-Isopropyltoluene	< .001	mg/l	03/11/08 18:24	WG349407
sec-Butylbenzene	< .001	mg/l	03/11/08 18:24	WG349407
Styrene	< .001	mg/l	03/11/08 18:24	WG349407
tert-Butylbenzene	< .001	mg/l	03/11/08 18:24	WG349407
Tetrachloroethene	< .001	mg/l	03/11/08 18:24	WG349407
Toluene	< .005	mg/l	03/11/08 18:24	WG349407
trans-1,2-Dichloroethene	< .001	mg/l	03/11/08 18:24	WG349407
Trichloroethene	< .001	mg/l	03/11/08 18:24	WG349407
Trichlorofluoromethane	< .005	mg/l	03/11/08 18:24	WG349407
Vinyl chloride	< .001	mg/l	03/11/08 18:24	WG349407
1,2,4-Trichlorobenzene	< .01	ppm	03/13/08 12:36	WG349524
2,4,6-Trichlorophenol	< .01	ppm	03/13/08 12:36	WG349524
2,4-Dichlorophenol	< .01	ppm	03/13/08 12:36	WG349524
2,4-Dimethylphenol	< .01	ppm	03/13/08 12:36	WG349524

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

2,4-Dinitrophenol	< .01	ppm	03/13/08 12:36	WG349524

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
2,4-Dinitrotoluene	< .01	ppm	03/13/08 12:36	WG349524
2,6-Dinitrotoluene	< .01	ppm	03/13/08 12:36	WG349524
2-Chloronaphthalene	< .01	ppm	03/13/08 12:36	WG349524
2-Chlorophenol	< .01	ppm	03/13/08 12:36	WG349524
2-Nitrophenol	< .01	ppm	03/13/08 12:36	WG349524
3,3-Dichlorobenzidine	< .01	ppm	03/13/08 12:36	WG349524
4,6-Dinitro-2-methylphenol	< .01	ppm	03/13/08 12:36	WG349524
4-Bromophenyl-phenylether	< .01	ppm	03/13/08 12:36	WG349524
4-Chloro-3-methylphenol	< .01	ppm	03/13/08 12:36	WG349524
4-Chlorophenyl-phenylether	< .01	ppm	03/13/08 12:36	WG349524
4-Nitrophenol	< .01	ppm	03/13/08 12:36	WG349524
Acenaphthene	< .01	ppm	03/13/08 12:36	WG349524
Acenaphthene	< .01	ppm	03/14/08 17:11	WG349524
Acenaphthylene	< .01	ppm	03/13/08 12:36	WG349524
Acenaphthylene	< .01	ppm	03/14/08 17:11	WG349524
Anthracene	< .01	ppm	03/13/08 12:36	WG349524
Anthracene	< .01	ppm	03/14/08 17:11	WG349524
Benzidine	< .01	ppm	03/13/08 12:36	WG349524
Benzo(a)anthracene	< .01	ppm	03/13/08 12:36	WG349524
Benzo(a)anthracene	< .01	ppm	03/14/08 17:11	WG349524
Benzo(a)pyrene	< .01	ppm	03/13/08 12:36	WG349524
Benzo(a)pyrene	< .01	ppm	03/14/08 17:11	WG349524
Benzo(b)fluoranthene	< .01	ppm	03/13/08 12:36	WG349524
Benzo(b)fluoranthene	< .01	ppm	03/14/08 17:11	WG349524
Benzo(g,h,i)perylene	< .01	ppm	03/13/08 12:36	WG349524
Benzo(g,h,i)perylene	< .01	ppm	03/14/08 17:11	WG349524
Benzo(k)fluoranthene	< .01	ppm	03/13/08 12:36	WG349524
Benzo(k)fluoranthene	< .01	ppm	03/14/08 17:11	WG349524
Benzylbutyl phthalate	< .01	ppm	03/13/08 12:36	WG349524
Bis(2-chlorethoxy)methane	< .01	ppm	03/13/08 12:36	WG349524
Bis(2-chloroethyl)ether	< .01	ppm	03/13/08 12:36	WG349524
Bis(2-chloroisopropyl)ether	< .01	ppm	03/13/08 12:36	WG349524
Bis(2-ethylhexyl)phthalate	< .01	ppm	03/13/08 12:36	WG349524
Chrysene	< .01	ppm	03/13/08 12:36	WG349524
Chrysene	< .01	ppm	03/14/08 17:11	WG349524
Di-n-butyl phthalate	< .01	ppm	03/13/08 12:36	WG349524
Di-n-octyl phthalate	< .01	ppm	03/13/08 12:36	WG349524
Dibenz(a,h)anthracene	< .01	ppm	03/13/08 12:36	WG349524
Dibenz(a,h)anthracene	< .01	ppm	03/14/08 17:11	WG349524
Diethyl phthalate	< .01	ppm	03/13/08 12:36	WG349524
Dimethyl phthalate	< .01	ppm	03/13/08 12:36	WG349524
Fluoranthene	< .01	ppm	03/13/08 12:36	WG349524
Fluoranthene	< .01	ppm	03/14/08 17:11	WG349524
Fluorene	< .01	ppm	03/13/08 12:36	WG349524
Fluorene	< .01	ppm	03/14/08 17:11	WG349524
Hexachloro-1,3-butadiene	< .01	ppm	03/13/08 12:36	WG349524
Hexachlorobenzene	< .01	ppm	03/13/08 12:36	WG349524
Hexachlorocyclopentadiene	< .01	ppm	03/13/08 12:36	WG349524
Hexachloroethane	< .01	ppm	03/13/08 12:36	WG349524
Indeno(1,2,3-cd)pyrene	< .01	ppm	03/13/08 12:36	WG349524
Indeno(1,2,3-cd)pyrene	< .01	ppm	03/14/08 17:11	WG349524
Isophorone	< .01	ppm	03/13/08 12:36	WG349524
n-Nitrosodi-n-propylamine	< .01	ppm	03/13/08 12:36	WG349524
n-Nitrosodimethylamine	< .05	ppm	03/13/08 12:36	WG349524
n-Nitrosodiphenylamine	< .01	ppm	03/13/08 12:36	WG349524
Naphthalene	< .01	ppm	03/13/08 12:36	WG349524
Naphthalene	< .01	ppm	03/14/08 17:11	WG349524
Nitrobenzene	< .01	ppm	03/13/08 12:36	WG349524
Pentachlorophenol	< .01	ppm	03/13/08 12:36	WG349524

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Pentachlorophenol	< .01	ppm	03/21/08 15:28	WG349524

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Phenanthrene	< .01	ppm	03/13/08 12:36	WG349524
Phenanthrene	< .01	ppm	03/14/08 17:11	WG349524
Phenol	< .01	ppm	03/13/08 12:36	WG349524
Pyrene	< .01	ppm	03/13/08 12:36	WG349524
Pyrene	< .01	ppm	03/14/08 17:11	WG349524
Tetrachloroethene	< .001	mg/l	03/12/08 11:41	WG349526
TPH (GC/FID) Low Fraction	< .1	mg/kg	03/12/08 11:25	WG349540
TPH (GC/FID) High Fraction	< 4	ppm	03/13/08 09:08	WG349573
1,1,1,2-Tetrachloroethane	< .001	mg/l	03/13/08 03:48	WG349600
1,1,1-Trichloroethane	< .001	mg/l	03/13/08 03:48	WG349600
1,1,2,2-Tetrachloroethane	< .001	mg/l	03/13/08 03:48	WG349600
1,1,2-Trichloroethane	< .001	mg/l	03/13/08 03:48	WG349600
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l	03/13/08 03:48	WG349600
1,1-Dichloroethane	< .001	mg/l	03/13/08 03:48	WG349600
1,1-Dichloroethene	< .001	mg/l	03/13/08 03:48	WG349600
1,1-Dichloropropene	< .001	mg/l	03/13/08 03:48	WG349600
1,2,3-Trichlorobenzene	< .001	mg/l	03/13/08 03:48	WG349600
1,2,3-Trichloropropane	< .001	mg/l	03/13/08 03:48	WG349600
1,2,3-Trimethylbenzene	< .001	mg/l	03/13/08 03:48	WG349600
1,2,4-Trichlorobenzene	< .001	mg/l	03/13/08 03:48	WG349600
1,2,4-Trimethylbenzene	< .001	mg/l	03/13/08 03:48	WG349600
1,2-Dibromo-3-Chloropropane	< .005	mg/l	03/13/08 03:48	WG349600
1,2-Dibromoethane	< .001	mg/l	03/13/08 03:48	WG349600
1,2-Dichlorobenzene	< .001	mg/l	03/13/08 03:48	WG349600
1,2-Dichloroethane	< .001	mg/l	03/13/08 03:48	WG349600
1,2-Dichloropropane	< .001	mg/l	03/13/08 03:48	WG349600
1,3,5-Trimethylbenzene	< .001	mg/l	03/13/08 03:48	WG349600
1,3-Dichlorobenzene	< .001	mg/l	03/13/08 03:48	WG349600
1,3-Dichloropropane	< .001	mg/l	03/13/08 03:48	WG349600
1,4-Dichlorobenzene	< .001	mg/l	03/13/08 03:48	WG349600
2,2-Dichloropropane	< .001	mg/l	03/13/08 03:48	WG349600
2-Butanone (MEK)	< .01	mg/l	03/13/08 03:48	WG349600
2-Chloroethyl vinyl ether	< .001	mg/l	03/13/08 03:48	WG349600
2-Chlorotoluene	< .001	mg/l	03/13/08 03:48	WG349600
4-Chlorotoluene	< .001	mg/l	03/13/08 03:48	WG349600
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	03/13/08 03:48	WG349600
Acetone	< .05	mg/l	03/13/08 03:48	WG349600
Acrolein	< .05	mg/l	03/13/08 03:48	WG349600
Acrylonitrile	< .01	mg/l	03/13/08 03:48	WG349600
Benzene	< .001	mg/l	03/13/08 03:48	WG349600
Bromobenzene	< .001	mg/l	03/13/08 03:48	WG349600
Bromodichloromethane	< .001	mg/l	03/13/08 03:48	WG349600
Bromoform	< .001	mg/l	03/13/08 03:48	WG349600
Bromomethane	< .005	mg/l	03/13/08 03:48	WG349600
Carbon tetrachloride	< .001	mg/l	03/13/08 03:48	WG349600
Chlorobenzene	< .001	mg/l	03/13/08 03:48	WG349600
Chlorodibromomethane	< .001	mg/l	03/13/08 03:48	WG349600
Chloroethane	< .001	mg/l	03/13/08 03:48	WG349600
Chloroform	< .005	mg/l	03/13/08 03:48	WG349600
Chloromethane	< .001	mg/l	03/13/08 03:48	WG349600
cis-1,2-Dichloroethene	< .001	mg/l	03/13/08 03:48	WG349600
cis-1,3-Dichloropropene	< .001	mg/l	03/13/08 03:48	WG349600
Di-isopropyl ether	< .001	mg/l	03/13/08 03:48	WG349600
Dibromomethane	< .001	mg/l	03/13/08 03:48	WG349600
Dichlorodifluoromethane	< .005	mg/l	03/13/08 03:48	WG349600

ENVIRONMENTAL SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Ethylbenzene	< .001	mg/l	03/13/08 03:48	WG349600

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Hexachlorobutadiene	< .001	mg/l	03/13/08 03:48	WG349600
Isopropylbenzene	< .001	mg/l	03/13/08 03:48	WG349600
Methyl tert-butyl ether	< .001	mg/l	03/13/08 03:48	WG349600
Methylene Chloride	< .005	mg/l	03/13/08 03:48	WG349600
n-Butylbenzene	< .001	mg/l	03/13/08 03:48	WG349600
n-Propylbenzene	< .001	mg/l	03/13/08 03:48	WG349600
Naphthalene	< .005	mg/l	03/13/08 03:48	WG349600
p-Isopropyltoluene	< .001	mg/l	03/13/08 03:48	WG349600
sec-Butylbenzene	< .001	mg/l	03/13/08 03:48	WG349600
Styrene	< .001	mg/l	03/13/08 03:48	WG349600
tert-Butylbenzene	< .001	mg/l	03/13/08 03:48	WG349600
Tetrachloroethene	< .001	mg/l	03/13/08 03:48	WG349600
Toluene	< .005	mg/l	03/13/08 03:48	WG349600
trans-1,2-Dichloroethene	< .001	mg/l	03/13/08 03:48	WG349600
trans-1,3-Dichloropropene	< .001	mg/l	03/13/08 03:48	WG349600
Trichloroethene	< .001	mg/l	03/13/08 03:48	WG349600
Trichlorofluoromethane	< .005	mg/l	03/13/08 03:48	WG349600
Vinyl chloride	< .001	mg/l	03/13/08 03:48	WG349600
Xylenes, Total	< .003	mg/l	03/13/08 03:48	WG349600
Oil & Grease (Hexane Extr)	< 5	mg/l	03/13/08 11:50	WG349723
1,1,1,2-Tetrachloroethane	< .001	mg/kg	03/13/08 14:47	WG349770
1,1,1-Trichloroethane	< .001	mg/kg	03/13/08 14:47	WG349770
1,1,2,2-Tetrachloroethane	< .001	mg/kg	03/13/08 14:47	WG349770
1,1,2-Trichloroethane	< .001	mg/kg	03/13/08 14:47	WG349770
1,1-Dichloroethane	< .001	mg/kg	03/13/08 14:47	WG349770
1,1-Dichloroethene	< .001	mg/kg	03/13/08 14:47	WG349770
1,1-Dichloropropene	< .001	mg/kg	03/13/08 14:47	WG349770
1,2,3-Trichlorobenzene	< .001	mg/kg	03/13/08 14:47	WG349770
1,2,3-Trichloropropane	< .001	mg/kg	03/13/08 14:47	WG349770
1,2,4-Trichlorobenzene	< .001	mg/kg	03/13/08 14:47	WG349770
1,2,4-Trimethylbenzene	< .001	mg/kg	03/13/08 14:47	WG349770
1,2-Dibromo-3-Chloropropane	< .005	mg/kg	03/13/08 14:47	WG349770
1,2-Dibromoethane	< .001	mg/kg	03/13/08 14:47	WG349770
1,2-Dichlorobenzene	< .001	mg/kg	03/13/08 14:47	WG349770
1,2-Dichloroethane	< .001	mg/kg	03/13/08 14:47	WG349770
1,2-Dichloropropane	< .001	mg/kg	03/13/08 14:47	WG349770
1,3,5-Trimethylbenzene	< .001	mg/kg	03/13/08 14:47	WG349770
1,3-Dichlorobenzene	< .001	mg/kg	03/13/08 14:47	WG349770
1,3-Dichloropropane	< .001	mg/kg	03/13/08 14:47	WG349770
1,4-Dichlorobenzene	< .001	mg/kg	03/13/08 14:47	WG349770
2,2-Dichloropropane	< .001	mg/kg	03/13/08 14:47	WG349770
2-Butanone (MEK)	< .01	mg/kg	03/13/08 14:47	WG349770
2-Chloroethyl vinyl ether	< .001	mg/kg	03/13/08 14:47	WG349770
2-Chlorotoluene	< .001	mg/kg	03/13/08 14:47	WG349770
4-Chlorotoluene	< .001	mg/kg	03/13/08 14:47	WG349770
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg	03/13/08 14:47	WG349770
Acetone	< .05	mg/kg	03/13/08 14:47	WG349770
Acrylonitrile	< .01	mg/kg	03/13/08 14:47	WG349770
Benzene	< .001	mg/kg	03/13/08 14:47	WG349770
Bromobenzene	< .001	mg/kg	03/13/08 14:47	WG349770
Bromodichloromethane	< .001	mg/kg	03/13/08 14:47	WG349770
Bromoform	< .001	mg/kg	03/13/08 14:47	WG349770
Bromomethane	< .005	mg/kg	03/13/08 14:47	WG349770
Carbon tetrachloride	< .001	mg/kg	03/13/08 14:47	WG349770
Chlorobenzene	< .001	mg/kg	03/13/08 14:47	WG349770
Chlorodibromomethane	< .001	mg/kg	03/13/08 14:47	WG349770
Chloroethane	< .005	mg/kg	03/13/08 14:47	WG349770

ENVIRONMENTAL SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Chloroform	< .005	mg/kg	03/13/08 14:47	WG349770

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Chloromethane	< .001	mg/kg	03/13/08 14:47	WG349770
cis-1,2-Dichloroethene	< .001	mg/kg	03/13/08 14:47	WG349770
cis-1,3-Dichloropropene	< .001	mg/kg	03/13/08 14:47	WG349770
Di-isopropyl ether	< .001	mg/kg	03/13/08 14:47	WG349770
Dibromomethane	< .001	mg/kg	03/13/08 14:47	WG349770
Dichlorodifluoromethane	< .005	mg/kg	03/13/08 14:47	WG349770
Ethylbenzene	< .001	mg/kg	03/13/08 14:47	WG349770
Hexachlorobutadiene	< .001	mg/kg	03/13/08 14:47	WG349770
Isopropylbenzene	< .001	mg/kg	03/13/08 14:47	WG349770
Methyl tert-butyl ether	< .001	mg/kg	03/13/08 14:47	WG349770
Methylene Chloride	< .005	mg/kg	03/13/08 14:47	WG349770
n-Butylbenzene	< .001	mg/kg	03/13/08 14:47	WG349770
n-Propylbenzene	< .001	mg/kg	03/13/08 14:47	WG349770
Naphthalene	< .005	mg/kg	03/13/08 14:47	WG349770
p-Isopropyltoluene	< .001	mg/kg	03/13/08 14:47	WG349770
sec-Butylbenzene	< .001	mg/kg	03/13/08 14:47	WG349770
Styrene	< .001	mg/kg	03/13/08 14:47	WG349770
tert-Butylbenzene	< .001	mg/kg	03/13/08 14:47	WG349770
Tetrachloroethene	< .001	mg/kg	03/13/08 14:47	WG349770
Toluene	< .005	mg/kg	03/13/08 14:47	WG349770
trans-1,2-Dichloroethene	< .001	mg/kg	03/13/08 14:47	WG349770
trans-1,3-Dichloropropene	< .001	mg/kg	03/13/08 14:47	WG349770
Trichloroethene	< .001	mg/kg	03/13/08 14:47	WG349770
Trichlorofluoromethane	< .005	mg/kg	03/13/08 14:47	WG349770
Vinyl chloride	< .001	mg/kg	03/13/08 14:47	WG349770
Xylenes, Total	< .003	mg/kg	03/13/08 14:47	WG349770
TPH (GC/FID) Low Fraction	< .1	mg/kg	03/13/08 14:51	WG349793
Chloroethane	< .001	mg/l	03/13/08 16:43	WG349796
Oil & Grease (Hexane Extr)	< 100	mg/kg	03/14/08 14:38	WG349916

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Chromium	mg/kg	11.6	10.3	11.9	20	L334956-55	WG348817
Lead	mg/kg	17.6	9.19	62.8	20	L334956-55	WG348817
Chromium	mg/l	0.00	0.00100	NA	20	L335033-03	WG348833
Lead	mg/l	0.00	0.00	0.00	20	L335033-03	WG348833
Total Solids	%	78.6	80.5	2.33	5	L335292-04	WG349253
Total Solids	%	88.0	88.0	0.0222	5	L335105-06	WG349254

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Chromium	mg/kg	168	152.	90.5	80.4-120	WG348817
Lead	mg/kg	113	102.	90.3	77.3-122	WG348817
Chromium	mg/l	1	0.962	96.2	85-115	WG348833
Lead	mg/l	1	0.985	98.5	85-115	WG348833
4,4-DDD	mg/kg	.0667	0.0668	100.	62-133	WG349011
4,4-DDE	mg/kg	.0667	0.0645	96.7	61-122	WG349011
4,4-DDT	mg/kg	.0667	0.0734	110.	54-138	WG349011
Aldrin	mg/kg	.0667	0.0615	92.1	57-114	WG349011

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Alpha BHC	mg/kg	.0667	0.0589	88.3	56-122	WG349011

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Beta BHC	mg/kg	.0667	0.0633	94.8	67-122	WG349011
Delta BHC	mg/kg	.0667	0.0593	88.8	63-120	WG349011
Dieldrin	mg/kg	.0667	0.0690	103.	63-124	WG349011
Endosulfan I	mg/kg	.0667	0.0653	97.9	63-119	WG349011
Endosulfan II	mg/kg	.0667	0.0657	98.5	63-123	WG349011
Endosulfan sulfate	mg/kg	.0667	0.0645	96.7	60-124	WG349011
Endrin	mg/kg	.0667	0.0630	94.4	58-118	WG349011
Endrin aldehyde	mg/kg	.0667	0.0638	95.6	50-136	WG349011
Endrin ketone	mg/kg	.0667	0.0639	95.8	57-127	WG349011
Gamma BHC	mg/kg	.0667	0.0591	88.6	58-113	WG349011
Heptachlor	mg/kg	.0667	0.0643	96.4	56-116	WG349011
Heptachlor epoxide	mg/kg	.0667	0.0645	96.7	63-118	WG349011
Hexachlorobenzene	mg/kg	.0667	0.0504	75.6	51-118	WG349011
Methoxychlor	mg/kg	.0667	0.0750	112.	50-152	WG349011
PCB 1260	mg/kg	.167	0.146	87.7	62-131	WG349011
Benzene	mg/l	.05	0.0463	92.6	67-126	WG349168
Di-isopropyl ether	mg/l	.05	0.0503	101.	63-139	WG349168
Ethylbenzene	mg/l	.05	0.0473	94.7	76-129	WG349168
Methyl tert-butyl ether	mg/l	.05	0.0530	106.	51-142	WG349168
Toluene	mg/l	.05	0.0482	96.3	72-122	WG349168
Total Xylenes	mg/l	.15	0.145	96.9	75-128	WG349168
Total Solids	%	50	50.0	100.	85-115	WG349253
Total Solids	%	50	50.0	100.	85-115	WG349254
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0596	119.	75-134	WG349361
1,1,1-Trichloroethane	mg/l	.05	0.0638	128.	67-137	WG349361
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0515	103.	72-128	WG349361
1,1,2-Trichloroethane	mg/l	.05	0.0517	103.	79-123	WG349361
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.05	0.0453	90.6	51-149	WG349361
1,1-Dichloroethane	mg/l	.05	0.0539	108.	67-133	WG349361
1,1-Dichloroethene	mg/l	.05	0.0515	103.	60-130	WG349361
1,1-Dichloropropene	mg/l	.05	0.0543	109.	68-132	WG349361
1,2,3-Trichlorobenzene	mg/l	.05	0.0668	134.	63-138	WG349361
1,2,3-Trichloropropane	mg/l	.05	0.0557	111.	68-130	WG349361
1,2,3-Trimethylbenzene	mg/l	.05	0.0528	106.	70-127	WG349361
1,2,4-Trichlorobenzene	mg/l	.05	0.0605	121.	65-137	WG349361
1,2,4-Trimethylbenzene	mg/l	.05	0.0532	106.	72-135	WG349361
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0575	115.	55-134	WG349361
1,2-Dibromoethane	mg/l	.05	0.0526	105.	75-126	WG349361
1,2-Dichlorobenzene	mg/l	.05	0.0509	102.	75-122	WG349361
1,2-Dichloroethane	mg/l	.05	0.0657	131.	63-137	WG349361
1,2-Dichloropropane	mg/l	.05	0.0524	105.	74-122	WG349361
1,3,5-Trimethylbenzene	mg/l	.05	0.0535	107.	73-134	WG349361
1,3-Dichlorobenzene	mg/l	.05	0.0516	103.	73-131	WG349361
1,3-Dichloropropane	mg/l	.05	0.0494	98.9	77-119	WG349361
1,4-Dichlorobenzene	mg/l	.05	0.0514	103.	70-121	WG349361
2,2-Dichloropropane	mg/l	.05	0.0626	125.	46-151	WG349361
2-Butanone (MEK)	mg/l	.25	0.266	107.	53-132	WG349361
2-Chloroethyl vinyl ether	mg/l	.25	0.269	108.	0-171	WG349361
2-Chlorotoluene	mg/l	.05	0.0532	106.	74-128	WG349361
4-Chlorotoluene	mg/l	.05	0.0531	106.	74-130	WG349361
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.265	106.	60-142	WG349361
Acetone	mg/l	.25	0.274	109.	48-134	WG349361
Acrolein	mg/l	.25	0.226	90.5	6-182	WG349361
Acrylonitrile	mg/l	.25	0.248	99.0	60-140	WG349361
Benzene	mg/l	.05	0.0488	97.7	67-126	WG349361

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Bromobenzene	mg/l	.05	0.0531	106.	76-123	WG349361

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Bromodichloromethane	mg/l	.05	0.0638	128.	68-133	WG349361
Bromoform	mg/l	.05	0.0666	133.	60-139	WG349361
Bromomethane	mg/l	.05	0.0537	107.	45-175	WG349361
Carbon tetrachloride	mg/l	.05	0.0692	138.	64-141	WG349361
Chlorobenzene	mg/l	.05	0.0504	101.	77-125	WG349361
Chlorodibromomethane	mg/l	.05	0.0623	125.	73-138	WG349361
Chloroethane	mg/l	.05	0.0508	102.	49-155	WG349361
Chloroform	mg/l	.05	0.0583	117.	66-126	WG349361
Chloromethane	mg/l	.05	0.0526	105.	45-152	WG349361
cis-1,2-Dichloroethene	mg/l	.05	0.0515	103.	72-128	WG349361
cis-1,3-Dichloropropene	mg/l	.05	0.0566	113.	73-131	WG349361
Di-isopropyl ether	mg/l	.05	0.0510	102.	63-139	WG349361
Dibromomethane	mg/l	.05	0.0618	124.	73-125	WG349361
Dichlorodifluoromethane	mg/l	.05	0.0705	141.	39-189	WG349361
Ethylbenzene	mg/l	.05	0.0501	100.	76-129	WG349361
Hexachlorobutadiene	mg/l	.05	0.0602	120.	67-135	WG349361
Isopropylbenzene	mg/l	.05	0.0522	104.	73-132	WG349361
Methyl tert-butyl ether	mg/l	.05	0.0561	112.	51-142	WG349361
Methylene Chloride	mg/l	.05	0.0541	108.	64-125	WG349361
n-Butylbenzene	mg/l	.05	0.0538	108.	63-142	WG349361
n-Propylbenzene	mg/l	.05	0.0524	105.	71-132	WG349361
Naphthalene	mg/l	.05	0.0600	120.	56-145	WG349361
p-Isopropyltoluene	mg/l	.05	0.0529	106.	68-138	WG349361
sec-Butylbenzene	mg/l	.05	0.0509	102.	70-135	WG349361
Styrene	mg/l	.05	0.0517	103.	78-130	WG349361
tert-Butylbenzene	mg/l	.05	0.0522	104.	72-134	WG349361
Toluene	mg/l	.05	0.0512	102.	72-122	WG349361
trans-1,2-Dichloroethene	mg/l	.05	0.0535	107.	67-129	WG349361
trans-1,3-Dichloropropene	mg/l	.05	0.0581	116.	66-137	WG349361
Trichloroethene	mg/l	.05	0.0539	108.	74-126	WG349361
Trichlorofluoromethane	mg/l	.05	0.0745	149.	54-156	WG349361
Vinyl chloride	mg/l	.05	0.0533	107.	55-153	WG349361
Xylenes, Total	mg/l	.15	0.151	101.	75-128	WG349361
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0517	103.	75-134	WG349407
1,1,1-Trichloroethane	mg/l	.05	0.0543	109.	67-137	WG349407
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0472	94.3	72-128	WG349407
1,1,2-Trichloroethane	mg/l	.05	0.0497	99.5	79-123	WG349407
1,1-Dichloroethane	mg/l	.05	0.0475	95.1	67-133	WG349407
1,1-Dichloroethene	mg/l	.05	0.0532	106.	60-130	WG349407
1,1-Dichloropropene	mg/l	.05	0.0521	104.	68-132	WG349407
1,2,3-Trichlorobenzene	mg/l	.05	0.0439	87.8	63-138	WG349407
1,2,3-Trichloropropane	mg/l	.05	0.0490	98.0	68-130	WG349407
1,2,4-Trichlorobenzene	mg/l	.05	0.0452	90.4	65-137	WG349407
1,2,4-Trimethylbenzene	mg/l	.05	0.0496	99.3	72-135	WG349407
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0491	98.2	55-134	WG349407
1,2-Dibromoethane	mg/l	.05	0.0493	98.5	75-126	WG349407
1,2-Dichlorobenzene	mg/l	.05	0.0461	92.3	75-122	WG349407
1,2-Dichloroethane	mg/l	.05	0.0416	83.1	63-137	WG349407
1,2-Dichloropropane	mg/l	.05	0.0462	92.4	74-122	WG349407
1,3,5-Trimethylbenzene	mg/l	.05	0.0516	103.	73-134	WG349407
1,3-Dichlorobenzene	mg/l	.05	0.0493	98.7	73-131	WG349407
1,3-Dichloropropane	mg/l	.05	0.0447	89.4	77-119	WG349407
1,4-Dichlorobenzene	mg/l	.05	0.0458	91.7	70-121	WG349407
2,2-Dichloropropane	mg/l	.05	0.0640	128.	46-151	WG349407
2-Butanone (MEK)	mg/l	.25	0.235	93.9	53-132	WG349407
2-Chlorotoluene	mg/l	.05	0.0496	99.3	74-128	WG349407
4-Chlorotoluene	mg/l	.05	0.0486	97.2	74-130	WG349407
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.200	79.8	60-142	WG349407

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Acetone	mg/l	.25	0.156	62.4	48-134	WG349407

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Acrolein	mg/l	.25	0.171	68.4	6-182	WG349407
Acrylonitrile	mg/l	.25	0.195	78.1	60-140	WG349407
Benzene	mg/l	.05	0.0483	96.5	67-126	WG349407
Bromobenzene	mg/l	.05	0.0467	93.3	76-123	WG349407
Bromodichloromethane	mg/l	.05	0.0487	97.5	68-133	WG349407
Bromoform	mg/l	.05	0.0532	106.	60-139	WG349407
Bromomethane	mg/l	.05	0.0664	133.	45-175	WG349407
Carbon tetrachloride	mg/l	.05	0.0423	84.6	64-141	WG349407
Chlorobenzene	mg/l	.05	0.0519	104.	77-125	WG349407
Chlorodibromomethane	mg/l	.05	0.0518	104.	73-138	WG349407
Chloroform	mg/l	.05	0.0478	95.6	66-126	WG349407
Chloromethane	mg/l	.05	0.0418	83.6	45-152	WG349407
cis-1,2-Dichloroethene	mg/l	.05	0.0503	101.	72-128	WG349407
Di-isopropyl ether	mg/l	.05	0.0365	73.0	63-139	WG349407
Dibromomethane	mg/l	.05	0.0468	93.5	73-125	WG349407
Dichlorodifluoromethane	mg/l	.05	0.0531	106.	39-189	WG349407
Ethylbenzene	mg/l	.05	0.0524	105.	76-129	WG349407
Hexachlorobutadiene	mg/l	.05	0.0508	102.	67-135	WG349407
Isopropylbenzene	mg/l	.05	0.0536	107.	73-132	WG349407
m&p-Xylenes	mg/l	.1	0.101	101.	74-128	WG349407
Methyl tert-butyl ether	mg/l	.05	0.0496	99.3	51-142	WG349407
Methylene Chloride	mg/l	.05	0.0430	86.0	64-125	WG349407
n-Butylbenzene	mg/l	.05	0.0484	96.8	63-142	WG349407
n-Propylbenzene	mg/l	.05	0.0511	102.	71-132	WG349407
Naphthalene	mg/l	.05	0.0426	85.2	56-145	WG349407
o-Xylene	mg/l	.05	0.0521	104.	78-128	WG349407
p-Isopropyltoluene	mg/l	.05	0.0531	106.	68-138	WG349407
sec-Butylbenzene	mg/l	.05	0.0529	106.	70-135	WG349407
Styrene	mg/l	.05	0.0510	102.	78-130	WG349407
tert-Butylbenzene	mg/l	.05	0.0537	107.	72-134	WG349407
Tetrachloroethene	mg/l	.05	0.0553	111.	67-135	WG349407
Toluene	mg/l	.05	0.0495	99.1	72-122	WG349407
trans-1,2-Dichloroethene	mg/l	.05	0.0519	104.	67-129	WG349407
Trichloroethene	mg/l	.05	0.0543	109.	74-126	WG349407
Trichlorofluoromethane	mg/l	.05	0.0421	84.2	54-156	WG349407
Vinyl chloride	mg/l	.05	0.0458	91.5	55-153	WG349407
1,2,4-Trichlorobenzene	ppm	.01	0.00445	44.5	26-103	WG349524
2,4,6-Trichlorophenol	ppm	.01	0.00533	53.3	49-118	WG349524
2,4-Dichlorophenol	ppm	.01	0.00510	51.0	46-115	WG349524
2,4-Dimethylphenol	ppm	.01	0.00557	55.7	40-124	WG349524
2,4-Dinitrophenol	ppm	.01	0.00585	58.5	10-125	WG349524
2,4-Dinitrotoluene	ppm	.01	0.00639	63.9	56-128	WG349524
2,6-Dinitrotoluene	ppm	.01	0.00638	63.8	56-121	WG349524
2-Chloronaphthalene	ppm	.01	0.00543	54.3	44-110	WG349524
2-Chlorophenol	ppm	.01	0.00447	44.7	38-114	WG349524
2-Nitrophenol	ppm	.01	0.00510	51.0	35-118	WG349524
3,3-Dichlorobenzidine	ppm	.01	0.00713	71.3	46-145	WG349524
4,6-Dinitro-2-methylphenol	ppm	.01	0.00520	52.0	24-119	WG349524
4-Bromophenyl-phenylether	ppm	.01	0.00510	51.0	45-105	WG349524
4-Chloro-3-methylphenol	ppm	.01	0.00525	52.5	47-116	WG349524
4-Chlorophenyl-phenylether	ppm	.01	0.00543	54.3	49-116	WG349524
4-Nitrophenol	ppm	.01	0.00169	16.9	10-66	WG349524
Acenaphthene	ppm	.01	0.00529	52.9	48-110	WG349524
Acenaphthylene	ppm	.01	0.00551	55.1	48-113	WG349524
Anthracene	ppm	.01	0.00625	62.5	55-127	WG349524
Benzidine	ppm	.01	0.00449	44.9	0-46	WG349524
Benzo(a)anthracene	ppm	.01	0.00686	68.6	57-115	WG349524
Benzo(a)pyrene	ppm	.01	0.00681	68.1	63-125	WG349524

ENVIRONMENTAL SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Benzo(b)fluoranthene	ppm	.01	0.00644	64.4	50-123	WG349524

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzo(g,h,i)perylene	ppm	.01	0.00700	70.0	39-143	WG349524
Benzo(k)fluoranthene	ppm	.01	0.00697	69.7	45-126	WG349524
Benzylbutyl phthalate	ppm	.01	0.00626	62.6	22-154	WG349524
Bis(2-chlorethoxy)methane	ppm	.01	0.00580	58.0	42-116	WG349524
Bis(2-chloroethyl)ether	ppm	.01	0.00448	44.8	26-115	WG349524
Bis(2-chloroisopropyl)ether	ppm	.01	0.00572	57.2	32-115	WG349524
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00826	82.6	47-143	WG349524
Chrysene	ppm	.01	0.00707	70.7	58-113	WG349524
Di-n-butyl phthalate	ppm	.01	0.00659	65.9	51-131	WG349524
Di-n-octyl phthalate	ppm	.01	0.00777	77.7	51-138	WG349524
Dibenz(a,h)anthracene	ppm	.01	0.00724	72.4	39-144	WG349524
Diethyl phthalate	ppm	.01	0.00537	53.7	36-128	WG349524
Dimethyl phthalate	ppm	.01	0.00402	40.2	10-135	WG349524
Fluoranthene	ppm	.01	0.00619	61.9	53-119	WG349524
Fluorene	ppm	.01	0.00555	55.5	49-116	WG349524
Hexachloro-1,3-butadiene	ppm	.01	0.00406	40.6	21-116	WG349524
Hexachlorobenzene	ppm	.01	0.00568	56.8	51-121	WG349524
Hexachlorocyclopentadiene	ppm	.01	0.00388	38.8	4-126	WG349524
Hexachloroethane	ppm	.01	0.00373	37.3	15-109	WG349524
Indeno(1,2,3-cd)pyrene	ppm	.01	0.00721	72.1	40-143	WG349524
Isophorone	ppm	.01	0.00623	62.3	48-126	WG349524
n-Nitrosodi-n-propylamine	ppm	.01	0.00567	56.7	47-122	WG349524
n-Nitrosodimethylamine	ppm	.01	0.00156	15.6	11-69	WG349524
n-Nitrosodiphenylamine	ppm	.01	0.00639	63.9	59-143	WG349524
Naphthalene	ppm	.01	0.00455	45.5	29-103	WG349524
Nitrobenzene	ppm	.01	0.00478	47.8	31-105	WG349524
Pentachlorophenol	ppm	.01	0.00619	61.9	20-122	WG349524
Phenanthrene	ppm	.01	0.00571	57.1	54-112	WG349524
Phenol	ppm	.01	0.00216	21.6	17-52	WG349524
Pyrene	ppm	.01	0.00704	70.4	46-130	WG349524
Tetrachloroethene	mg/l	.05	0.0549	110.	67-135	WG349526
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.25	114.	67-135	WG349540
TPH (GC/FID) High Fraction	ppm	60	52.0	86.7	50-150	WG349573
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0553	111.	75-134	WG349600
1,1,1-Trichloroethane	mg/l	.05	0.0596	119.	67-137	WG349600
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0543	109.	72-128	WG349600
1,1,2-Trichloroethane	mg/l	.05	0.0531	106.	79-123	WG349600
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.05	0.0526	105.	51-149	WG349600
1,1-Dichloroethane	mg/l	.05	0.0572	114.	67-133	WG349600
1,1-Dichloroethene	mg/l	.05	0.0613	123.	60-130	WG349600
1,1-Dichloropropene	mg/l	.05	0.0557	111.	68-132	WG349600
1,2,3-Trichlorobenzene	mg/l	.05	0.0473	94.6	63-138	WG349600
1,2,3-Trichloropropane	mg/l	.05	0.0567	113.	68-130	WG349600
1,2,3-Trimethylbenzene	mg/l	.05	0.0493	98.5	70-127	WG349600
1,2,4-Trichlorobenzene	mg/l	.05	0.0467	93.4	65-137	WG349600
1,2,4-Trimethylbenzene	mg/l	.05	0.0482	96.3	72-135	WG349600
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0587	117.	55-134	WG349600
1,2-Dibromoethane	mg/l	.05	0.0537	107.	75-126	WG349600
1,2-Dichlorobenzene	mg/l	.05	0.0475	95.0	75-122	WG349600
1,2-Dichloroethane	mg/l	.05	0.0585	117.	63-137	WG349600
1,2-Dichloropropane	mg/l	.05	0.0537	107.	74-122	WG349600
1,3,5-Trimethylbenzene	mg/l	.05	0.0496	99.2	73-134	WG349600
1,3-Dichlorobenzene	mg/l	.05	0.0451	90.3	73-131	WG349600
1,3-Dichloropropane	mg/l	.05	0.0512	102.	77-119	WG349600
1,4-Dichlorobenzene	mg/l	.05	0.0447	89.4	70-121	WG349600

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

2,2-Dichloropropane	mg/l	.05	0.0590	118.	46-151	WG349600

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
2-Butanone (MEK)	mg/l	.25	0.299	120.	53-132	WG349600
2-Chloroethyl vinyl ether	mg/l	.25	0.255	102.	0-171	WG349600
2-Chlorotoluene	mg/l	.05	0.0486	97.2	74-128	WG349600
4-Chlorotoluene	mg/l	.05	0.0467	93.4	74-130	WG349600
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.278	111.	60-142	WG349600
Acetone	mg/l	.25	0.283	113.	48-134	WG349600
Acrolein	mg/l	.25	0.268	107.	6-182	WG349600
Acrylonitrile	mg/l	.25	0.281	112.	60-140	WG349600
Benzene	mg/l	.05	0.0534	107.	67-126	WG349600
Bromobenzene	mg/l	.05	0.0500	100.	76-123	WG349600
Bromodichloromethane	mg/l	.05	0.0584	117.	68-133	WG349600
Bromoform	mg/l	.05	0.0606	121.	60-139	WG349600
Bromomethane	mg/l	.05	0.0525	105.	45-175	WG349600
Carbon tetrachloride	mg/l	.05	0.0618	124.	64-141	WG349600
Chlorobenzene	mg/l	.05	0.0505	101.	77-125	WG349600
Chlorodibromomethane	mg/l	.05	0.0569	114.	73-138	WG349600
Chloroethane	mg/l	.05	0.0549	110.	49-155	WG349600
Chloroform	mg/l	.05	0.0562	112.	66-126	WG349600
Chloromethane	mg/l	.05	0.0500	100.	45-152	WG349600
cis-1,2-Dichloroethene	mg/l	.05	0.0547	109.	72-128	WG349600
cis-1,3-Dichloropropene	mg/l	.05	0.0538	108.	73-131	WG349600
Di-isopropyl ether	mg/l	.05	0.0545	109.	63-139	WG349600
Dibromomethane	mg/l	.05	0.0588	118.	73-125	WG349600
Dichlorodifluoromethane	mg/l	.05	0.0490	97.9	39-189	WG349600
Ethylbenzene	mg/l	.05	0.0505	101.	76-129	WG349600
Hexachlorobutadiene	mg/l	.05	0.0500	100.	67-135	WG349600
Isopropylbenzene	mg/l	.05	0.0508	102.	73-132	WG349600
Methyl tert-butyl ether	mg/l	.05	0.0581	116.	51-142	WG349600
Methylene Chloride	mg/l	.05	0.0541	108.	64-125	WG349600
n-Butylbenzene	mg/l	.05	0.0457	91.3	63-142	WG349600
n-Propylbenzene	mg/l	.05	0.0487	97.5	71-132	WG349600
Naphthalene	mg/l	.05	0.0556	111.	56-145	WG349600
p-Isopropyltoluene	mg/l	.05	0.0475	95.0	68-138	WG349600
sec-Butylbenzene	mg/l	.05	0.0488	97.7	70-135	WG349600
Styrene	mg/l	.05	0.0503	101.	78-130	WG349600
tert-Butylbenzene	mg/l	.05	0.0506	101.	72-134	WG349600
Tetrachloroethene	mg/l	.05	0.0515	103.	67-135	WG349600
Toluene	mg/l	.05	0.0518	104.	72-122	WG349600
trans-1,2-Dichloroethene	mg/l	.05	0.0563	113.	67-129	WG349600
trans-1,3-Dichloropropene	mg/l	.05	0.0550	110.	66-137	WG349600
Trichloroethene	mg/l	.05	0.0539	108.	74-126	WG349600
Trichlorofluoromethane	mg/l	.05	0.0632	126.	54-156	WG349600
Vinyl chloride	mg/l	.05	0.0521	104.	55-153	WG349600
Xylenes, Total	mg/l	.15	0.150	99.7	75-128	WG349600
Oil & Grease (Hexane Extr)	mg/l	40	36.0	90.0	78-114	WG349723
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0447	89.3	73-134	WG349770
1,1,1-Trichloroethane	mg/kg	.05	0.0466	93.3	62-135	WG349770
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0452	90.4	74-129	WG349770
1,1,2-Trichloroethane	mg/kg	.05	0.0422	84.3	77-124	WG349770
1,1-Dichloroethane	mg/kg	.05	0.0484	96.8	61-134	WG349770
1,1-Dichloroethene	mg/kg	.05	0.0420	83.9	53-136	WG349770
1,1-Dichloropropene	mg/kg	.05	0.0421	84.2	63-132	WG349770
1,2,3-Trichlorobenzene	mg/kg	.05	0.0501	100.	62-146	WG349770
1,2,3-Trichloropropane	mg/kg	.05	0.0424	84.7	70-133	WG349770
1,2,4-Trichlorobenzene	mg/kg	.05	0.0495	99.1	61-148	WG349770
1,2,4-Trimethylbenzene	mg/kg	.05	0.0394	78.8	68-135	WG349770
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0435	87.1	61-134	WG349770

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

1,2-Dibromoethane	mg/kg	.05	0.0397	79.4	76-127	WG349770

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,2-Dichlorobenzene	mg/kg	.05	0.0436	87.3	77-123	WG349770
1,2-Dichloroethane	mg/kg	.05	0.0504	101.	58-141	WG349770
1,2-Dichloropropane	mg/kg	.05	0.0451	90.2	71-128	WG349770
1,3,5-Trimethylbenzene	mg/kg	.05	0.0395	79.0	71-133	WG349770
1,3-Dichlorobenzene	mg/kg	.05	0.0410	82.0	71-132	WG349770
1,3-Dichloropropane	mg/kg	.05	0.0418	83.5	76-120	WG349770
1,4-Dichlorobenzene	mg/kg	.05	0.0426	85.1	72-123	WG349770
2,2-Dichloropropane	mg/kg	.05	0.0458	91.7	50-147	WG349770
2-Butanone (MEK)	mg/kg	.25	0.247	98.8	51-131	WG349770
2-Chloroethyl vinyl ether	mg/kg	.25	0.0253	10.1	0-188	WG349770
2-Chlorotoluene	mg/kg	.05	0.0417	83.3	73-128	WG349770
4-Chlorotoluene	mg/kg	.05	0.0417	83.5	72-129	WG349770
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.255	102.	61-143	WG349770
Acetone	mg/kg	.25	0.257	103.	44-140	WG349770
Acrylonitrile	mg/kg	.25	0.246	98.3	55-143	WG349770
Benzene	mg/kg	.05	0.0445	89.1	65-128	WG349770
Bromobenzene	mg/kg	.05	0.0436	87.2	75-123	WG349770
Bromodichloromethane	mg/kg	.05	0.0487	97.3	66-126	WG349770
Bromoform	mg/kg	.05	0.0438	87.5	64-139	WG349770
Bromomethane	mg/kg	.05	0.0529	106.	41-175	WG349770
Carbon tetrachloride	mg/kg	.05	0.0474	94.9	60-140	WG349770
Chlorobenzene	mg/kg	.05	0.0399	79.8	75-125	WG349770
Chlorodibromomethane	mg/kg	.05	0.0448	89.5	72-137	WG349770
Chloroethane	mg/kg	.05	0.0407	81.4	44-159	WG349770
Chloroform	mg/kg	.05	0.0502	100.	63-123	WG349770
Chloromethane	mg/kg	.05	0.0303	60.6	42-149	WG349770
cis-1,2-Dichloroethene	mg/kg	.05	0.0459	91.8	71-129	WG349770
cis-1,3-Dichloropropene	mg/kg	.05	0.0440	88.0	73-132	WG349770
Di-isopropyl ether	mg/kg	.05	0.0529	106.	59-143	WG349770
Dibromomethane	mg/kg	.05	0.0416	83.3	70-130	WG349770
Dichlorodifluoromethane	mg/kg	.05	0.0316	63.2	26-186	WG349770
Ethylbenzene	mg/kg	.05	0.0385	77.0	74-128	WG349770
Hexachlorobutadiene	mg/kg	.05	0.0462	92.5	65-137	WG349770
Isopropylbenzene	mg/kg	.05	0.0398	79.6	73-130	WG349770
Methyl tert-butyl ether	mg/kg	.05	0.0496	99.2	44-148	WG349770
Methylene Chloride	mg/kg	.05	0.0468	93.5	57-129	WG349770
n-Butylbenzene	mg/kg	.05	0.0441	88.2	60-145	WG349770
n-Propylbenzene	mg/kg	.05	0.0406	81.1	71-132	WG349770
Naphthalene	mg/kg	.05	0.0532	106.	61-142	WG349770
p-Isopropyltoluene	mg/kg	.05	0.0409	81.8	67-138	WG349770
sec-Butylbenzene	mg/kg	.05	0.0411	82.2	71-134	WG349770
Styrene	mg/kg	.05	0.0410	82.0	76-133	WG349770
tert-Butylbenzene	mg/kg	.05	0.0410	82.1	72-132	WG349770
Tetrachloroethene	mg/kg	.05	0.0330	66.1	65-135	WG349770
Toluene	mg/kg	.05	0.0399	79.8	70-120	WG349770
trans-1,2-Dichloroethene	mg/kg	.05	0.0392	78.3	61-133	WG349770
trans-1,3-Dichloropropene	mg/kg	.05	0.0451	90.3	70-135	WG349770
Trichloroethene	mg/kg	.05	0.0403	80.6	71-126	WG349770
Trichlorofluoromethane	mg/kg	.05	0.0389	77.8	52-147	WG349770
Vinyl chloride	mg/kg	.05	0.0345	68.9	50-151	WG349770
Xylenes, Total	mg/kg	.15	0.114	76.0	74-127	WG349770
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.75	105.	67-135	WG349793
Chloroethane	mg/l	.05	0.0818	164.	49-155	WG349796
Oil & Grease (Hexane Extr)	mg/kg	4000	4400	110.	78-114	WG349916

Laboratory Control Sample Duplicate

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
4,4-DDD	mg/kg	0.0679	0.0668	1.62	28	102	WG349011
4,4-DDE	mg/kg	0.0643	0.0645	0.279	28	96	WG349011
4,4-DDT	mg/kg	0.0743	0.0734	1.18	31	111	WG349011
Aldrin	mg/kg	0.0620	0.0615	0.939	27	93	WG349011
Alpha BHC	mg/kg	0.0625	0.0589	5.87	30	94	WG349011
Beta BHC	mg/kg	0.0647	0.0633	2.25	23	97	WG349011
Delta BHC	mg/kg	0.0591	0.0593	0.220	26	89	WG349011
Dieldrin	mg/kg	0.0676	0.0690	2.09	26	101	WG349011
Endosulfan I	mg/kg	0.0644	0.0653	1.34	26	97	WG349011
Endosulfan II	mg/kg	0.0659	0.0657	0.395	28	99	WG349011
Endosulfan sulfate	mg/kg	0.0652	0.0645	1.16	30	98	WG349011
Endrin	mg/kg	0.0627	0.0630	0.494	27	94	WG349011
Endrin aldehyde	mg/kg	0.0648	0.0638	1.57	32	97	WG349011
Endrin ketone	mg/kg	0.0645	0.0639	0.950	30	97	WG349011
Gamma BHC	mg/kg	0.0613	0.0591	3.74	27	92	WG349011
Heptachlor	mg/kg	0.0632	0.0643	1.69	29	95	WG349011
Heptachlor epoxide	mg/kg	0.0645	0.0645	0.0310	26	97	WG349011
Hexachlorobenzene	mg/kg	0.0546	0.0504	8.02	30	82	WG349011
Methoxychlor	mg/kg	0.0751	0.0750	0.160	32	113	WG349011
PCB 1260	mg/kg	0.165	0.146	11.8	22	99	WG349011
Benzene	mg/l	0.0492	0.0463	6.01	20	98	WG349168
Di-isopropyl ether	mg/l	0.0536	0.0503	6.37	20	107	WG349168
Ethylbenzene	mg/l	0.0514	0.0473	8.19	20	103	WG349168
Methyl tert-butyl ether	mg/l	0.0565	0.0530	6.40	20	113	WG349168
Toluene	mg/l	0.0517	0.0482	7.12	20	103	WG349168
Total Xylenes	mg/l	0.159	0.145	8.70	20	106	WG349168
1,1,1,2-Tetrachloroethane	mg/l	0.0592	0.0596	0.688	20	118	WG349361
1,1,1-Trichloroethane	mg/l	0.0624	0.0638	2.24	20	125	WG349361
1,1,2,2-Tetrachloroethane	mg/l	0.0542	0.0515	5.13	20	108	WG349361
1,1,2-Trichloroethane	mg/l	0.0518	0.0517	0.247	20	104	WG349361
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0443	0.0453	2.30	20	89	WG349361
1,1-Dichloroethane	mg/l	0.0531	0.0539	1.57	20	106	WG349361
1,1-Dichloroethene	mg/l	0.0501	0.0515	2.80	20	100	WG349361
1,1-Dichloropropene	mg/l	0.0538	0.0543	0.981	20	108	WG349361
1,2,3-Trichlorobenzene	mg/l	0.0647	0.0668	3.21	20	129	WG349361
1,2,3-Trichloropropane	mg/l	0.0591	0.0557	5.85	20	118	WG349361
1,2,3-Trimethylbenzene	mg/l	0.0527	0.0528	0.164	20	105	WG349361
1,2,4-Trichlorobenzene	mg/l	0.0630	0.0605	3.99	20	126	WG349361
1,2,4-Trimethylbenzene	mg/l	0.0544	0.0532	2.36	20	109	WG349361
1,2-Dibromo-3-Chloropropane	mg/l	0.0585	0.0575	1.70	20	117	WG349361
1,2-Dibromoethane	mg/l	0.0533	0.0526	1.36	20	107	WG349361
1,2-Dichlorobenzene	mg/l	0.0512	0.0509	0.530	20	102	WG349361
1,2-Dichloroethane	mg/l	0.0639	0.0657	2.86	20	128	WG349361
1,2-Dichloropropane	mg/l	0.0535	0.0524	2.08	20	107	WG349361
1,3,5-Trimethylbenzene	mg/l	0.0548	0.0535	2.38	20	110	WG349361
1,3-Dichlorobenzene	mg/l	0.0531	0.0516	2.88	20	106	WG349361
1,3-Dichloropropane	mg/l	0.0502	0.0494	1.56	20	100	WG349361
1,4-Dichlorobenzene	mg/l	0.0515	0.0514	0.328	20	103	WG349361
2,2-Dichloropropane	mg/l	0.0613	0.0626	2.14	20	123	WG349361
2-Butanone (MEK)	mg/l	0.283	0.266	5.89	20	113	WG349361
2-Chloroethyl vinyl ether	mg/l	0.270	0.269	0.276	27	108	WG349361
2-Chlorotoluene	mg/l	0.0537	0.0532	1.04	20	107	WG349361
4-Chlorotoluene	mg/l	0.0545	0.0531	2.54	20	109	WG349361
4-Methyl-2-pentanone (MIBK)	mg/l	0.275	0.265	3.61	20	110	WG349361
Acetone	mg/l	0.281	0.274	2.80	20	113	WG349361
Acrolein	mg/l	0.234	0.226	3.53	39	94	WG349361
Acrylonitrile	mg/l	0.255	0.248	2.83	20	102	WG349361
Benzene	mg/l	0.0481	0.0488	1.58	20	96	WG349361
Bromobenzene	mg/l	0.0539	0.0531	1.52	20	108	WG349361
Bromodichloromethane	mg/l	0.0643	0.0638	0.770	20	129	WG349361

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Bromoform	mg/l	0.0691	0.0666	3.66	20	138	WG349361

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Bromomethane	mg/l	0.0533	0.0537	0.751	20	107	WG349361
Carbon tetrachloride	mg/l	0.0664	0.0692	4.12	20	133	WG349361
Chlorobenzene	mg/l	0.0506	0.0504	0.544	20	101	WG349361
Chlorodibromomethane	mg/l	0.0624	0.0623	0.106	20	125	WG349361
Chloroethane	mg/l	0.0514	0.0508	1.15	20	103	WG349361
Chloroform	mg/l	0.0573	0.0583	1.60	20	115	WG349361
Chloromethane	mg/l	0.0537	0.0526	2.07	20	107	WG349361
cis-1,2-Dichloroethene	mg/l	0.0504	0.0515	2.12	20	101	WG349361
cis-1,3-Dichloropropene	mg/l	0.0569	0.0566	0.539	20	114	WG349361
Di-isopropyl ether	mg/l	0.0505	0.0510	0.957	20	101	WG349361
Dibromomethane	mg/l	0.0617	0.0618	0.243	20	123	WG349361
Dichlorodifluoromethane	mg/l	0.0659	0.0705	6.85	24	132	WG349361
Ethylbenzene	mg/l	0.0507	0.0501	1.10	20	101	WG349361
Hexachlorobutadiene	mg/l	0.0610	0.0602	1.26	20	122	WG349361
Isopropylbenzene	mg/l	0.0521	0.0522	0.281	20	104	WG349361
Methyl tert-butyl ether	mg/l	0.0568	0.0561	1.19	20	114	WG349361
Methylene Chloride	mg/l	0.0511	0.0541	5.62	20	102	WG349361
n-Butylbenzene	mg/l	0.0542	0.0538	0.709	20	108	WG349361
n-Propylbenzene	mg/l	0.0527	0.0524	0.577	20	105	WG349361
Naphthalene	mg/l	0.0595	0.0600	0.871	20	119	WG349361
p-Isopropyltoluene	mg/l	0.0544	0.0529	2.93	20	109	WG349361
sec-Butylbenzene	mg/l	0.0517	0.0509	1.67	20	103	WG349361
Styrene	mg/l	0.0516	0.0517	0.161	20	103	WG349361
tert-Butylbenzene	mg/l	0.0532	0.0522	1.88	20	106	WG349361
Toluene	mg/l	0.0519	0.0512	1.36	20	104	WG349361
trans-1,2-Dichloroethene	mg/l	0.0509	0.0535	5.01	20	102	WG349361
trans-1,3-Dichloropropene	mg/l	0.0593	0.0581	1.97	20	119	WG349361
Trichloroethene	mg/l	0.0545	0.0539	1.17	20	109	WG349361
Trichlorofluoromethane	mg/l	0.0728	0.0745	2.42	20	146	WG349361
Vinyl chloride	mg/l	0.0524	0.0533	1.67	20	105	WG349361
Xylenes, Total	mg/l	0.154	0.151	1.94	20	103	WG349361
1,1,1,2-Tetrachloroethane	mg/l	0.0510	0.0517	1.26	20	102	WG349407
1,1,1-Trichloroethane	mg/l	0.0525	0.0543	3.50	20	105	WG349407
1,1,2,2-Tetrachloroethane	mg/l	0.0470	0.0472	0.440	20	94	WG349407
1,1,2-Trichloroethane	mg/l	0.0493	0.0497	0.924	20	99	WG349407
1,1-Dichloroethane	mg/l	0.0460	0.0475	3.39	20	92	WG349407
1,1-Dichloroethene	mg/l	0.0523	0.0532	1.71	20	105	WG349407
1,1-Dichloropropene	mg/l	0.0500	0.0521	3.95	20	100	WG349407
1,2,3-Trichlorobenzene	mg/l	0.0419	0.0439	4.79	20	84	WG349407
1,2,3-Trichloropropane	mg/l	0.0486	0.0490	0.873	20	97	WG349407
1,2,4-Trichlorobenzene	mg/l	0.0430	0.0452	4.92	20	86	WG349407
1,2,4-Trimethylbenzene	mg/l	0.0486	0.0496	2.09	20	97	WG349407
1,2-Dibromo-3-Chloropropane	mg/l	0.0469	0.0491	4.66	20	94	WG349407
1,2-Dibromoethane	mg/l	0.0487	0.0493	1.15	20	97	WG349407
1,2-Dichlorobenzene	mg/l	0.0449	0.0461	2.68	20	90	WG349407
1,2-Dichloroethane	mg/l	0.0403	0.0416	3.07	20	81	WG349407
1,2-Dichloropropane	mg/l	0.0444	0.0462	3.93	20	89	WG349407
1,3,5-Trimethylbenzene	mg/l	0.0505	0.0516	2.14	20	101	WG349407
1,3-Dichlorobenzene	mg/l	0.0487	0.0493	1.25	20	97	WG349407
1,3-Dichloropropane	mg/l	0.0443	0.0447	1.01	20	89	WG349407
1,4-Dichlorobenzene	mg/l	0.0447	0.0458	2.53	20	89	WG349407
2,2-Dichloropropane	mg/l	0.0615	0.0640	3.94	20	123	WG349407
2-Butanone (MEK)	mg/l	0.227	0.235	3.19	20	91	WG349407
2-Chlorotoluene	mg/l	0.0485	0.0496	2.26	20	97	WG349407
4-Chlorotoluene	mg/l	0.0477	0.0486	1.82	20	95	WG349407
4-Methyl-2-pentanone (MIBK)	mg/l	0.196	0.200	1.87	20	78	WG349407
Acetone	mg/l	0.161	0.156	3.01	20	64	WG349407
Acrolein	mg/l	0.170	0.171	0.318	39	68	WG349407

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Acrylonitrile	mg/l	0.192	0.195	1.57	20	77	WG349407

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Benzene	mg/l	0.0468	0.0483	3.16	20	94	WG349407
Bromobenzene	mg/l	0.0459	0.0467	1.52	20	92	WG349407
Bromodichloromethane	mg/l	0.0472	0.0487	3.28	20	94	WG349407
Bromoform	mg/l	0.0526	0.0532	0.959	20	105	WG349407
Bromomethane	mg/l	0.0629	0.0664	5.45	20	126	WG349407
Carbon tetrachloride	mg/l	0.0409	0.0423	3.54	20	82	WG349407
Chlorobenzene	mg/l	0.0507	0.0519	2.21	20	101	WG349407
Chlorodibromomethane	mg/l	0.0512	0.0518	1.25	20	102	WG349407
Chloroform	mg/l	0.0461	0.0478	3.60	20	92	WG349407
Chloromethane	mg/l	0.0406	0.0418	3.03	20	81	WG349407
cis-1,2-Dichloroethene	mg/l	0.0486	0.0503	3.42	20	97	WG349407
Di-isopropyl ether	mg/l	0.0354	0.0365	3.00	20	71	WG349407
Dibromomethane	mg/l	0.0449	0.0468	4.12	20	90	WG349407
Dichlorodifluoromethane	mg/l	0.0504	0.0531	5.25	24	101	WG349407
Ethylbenzene	mg/l	0.0516	0.0524	1.66	20	103	WG349407
Hexachlorobutadiene	mg/l	0.0483	0.0508	4.99	20	97	WG349407
Isopropylbenzene	mg/l	0.0524	0.0536	2.27	20	105	WG349407
m&p-Xylenes	mg/l	0.101	0.101	0.564	20	101	WG349407
Methyl tert-butyl ether	mg/l	0.0489	0.0496	1.53	20	98	WG349407
Methylene Chloride	mg/l	0.0439	0.0430	2.10	20	88	WG349407
n-Butylbenzene	mg/l	0.0467	0.0484	3.58	20	93	WG349407
n-Propylbenzene	mg/l	0.0502	0.0511	1.75	20	100	WG349407
Naphthalene	mg/l	0.0414	0.0426	2.85	20	83	WG349407
o-Xylene	mg/l	0.0511	0.0521	1.90	20	102	WG349407
p-Isopropyltoluene	mg/l	0.0523	0.0531	1.48	20	105	WG349407
sec-Butylbenzene	mg/l	0.0518	0.0529	2.05	20	104	WG349407
Styrene	mg/l	0.0502	0.0510	1.58	20	100	WG349407
tert-Butylbenzene	mg/l	0.0524	0.0537	2.54	20	105	WG349407
Tetrachloroethene	mg/l	0.0541	0.0553	2.20	20	108	WG349407
Toluene	mg/l	0.0479	0.0495	3.45	20	96	WG349407
trans-1,2-Dichloroethene	mg/l	0.0503	0.0519	3.25	20	101	WG349407
Trichloroethene	mg/l	0.0526	0.0543	3.13	20	105	WG349407
Trichlorofluoromethane	mg/l	0.0407	0.0421	3.55	20	81	WG349407
Vinyl chloride	mg/l	0.0453	0.0458	0.942	20	91	WG349407
1,2,4-Trichlorobenzene	ppm	0.0055	0.0044	21.8	38	55	WG349524
2,4,6-Trichlorophenol	ppm	0.0069	0.0053	26.7	28	70	WG349524
2,4-Dichlorophenol	ppm	0.0074	0.0051	37.1	28	74	WG349524
2,4-Dimethylphenol	ppm	0.0077	0.0055	32.7	36	78	WG349524
2,4-Dinitrophenol	ppm	0.0057	0.0058	2.25	50	57	WG349524
2,4-Dinitrotoluene	ppm	0.0081	0.0063	23.6	24	81	WG349524
2,6-Dinitrotoluene	ppm	0.0082	0.0063	26.0	23	83	WG349524
2-Chloronaphthalene	ppm	0.0065	0.0054	19.2	30	66	WG349524
2-Chlorophenol	ppm	0.0063	0.0044	34.0	36	63	WG349524
2-Nitrophenol	ppm	0.0069	0.0051	30.7	35	70	WG349524
3,3-Dichlorobenzidine	ppm	0.0081	0.0071	13.0	31	81	WG349524
4,6-Dinitro-2-methylphenol	ppm	0.0053	0.0052	3.40	50	54	WG349524
4-Bromophenyl-phenylether	ppm	0.0065	0.0051	24.9	26	66	WG349524
4-Chloro-3-methylphenol	ppm	0.0073	0.0052	33.1	22	73	WG349524
4-Chlorophenyl-phenylether	ppm	0.0069	0.0054	25.1	26	70	WG349524
4-Nitrophenol	ppm	0.0021	0.0016	22.1	37	21	WG349524
Acenaphthene	ppm	0.0066	0.0052	22.8	26	67	WG349524
Acenaphthylene	ppm	0.0070	0.0055	23.8	28	70	WG349524
Anthracene	ppm	0.0081	0.0062	26.1	24	81	WG349524
Benzidine	ppm	0.0057	0.0044	23.9	50	57	WG349524
Benzo(a)anthracene	ppm	0.0081	0.0068	17.6	20	82	WG349524
Benzo(a)pyrene	ppm	0.0081	0.0068	18.3	22	82	WG349524
Benzo(b)fluoranthene	ppm	0.0078	0.0064	19.7	32	79	WG349524
Benzo(g,h,i)perylene	ppm	0.0083	0.0070	17.9	31	84	WG349524

ENVIRONMENTAL SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Benzo(k)fluoranthene	ppm	0.0082	0.0069	16.7	37	82	WG349524

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Benzylbutyl phthalate	ppm	0.0080	0.0062	24.5	29	80	WG349524
Bis(2-chlorethoxy)methane	ppm	0.0069	0.0058	18.3	38	70	WG349524
Bis(2-chloroethyl)ether	ppm	0.0063	0.0044	35.0	50	64	WG349524
Bis(2-chloroisopropyl)ether	ppm	0.0067	0.0057	16.2	47	67	WG349524
Bis(2-ethylhexyl)phthalate	ppm	0.0101	0.0082	20.1	24	101	WG349524
Chrysene	ppm	0.0088	0.0070	22.0	21	88	WG349524
Di-n-butyl phthalate	ppm	0.0085	0.0065	26.0	22	86	WG349524
Di-n-octyl phthalate	ppm	0.0095	0.0077	20.9	22	96	WG349524
Dibenz(a,h)anthracene	ppm	0.0086	0.0072	17.9	30	87	WG349524
Diethyl phthalate	ppm	0.0072	0.0053	29.4	27	72	WG349524
Dimethyl phthalate	ppm	0.0056	0.0040	33.5	33	56	WG349524
Fluoranthene	ppm	0.0080	0.0061	25.5	28	80	WG349524
Fluorene	ppm	0.0071	0.0055	25.7	25	72	WG349524
Hexachloro-1,3-butadiene	ppm	0.0053	0.0040	28.1	50	54	WG349524
Hexachlorobenzene	ppm	0.0075	0.0056	28.1	23	75	WG349524
Hexachlorocyclopentadiene	ppm	0.0051	0.0038	28.1	50	52	WG349524
Hexachloroethane	ppm	0.0049	0.0037	27.9	50	49	WG349524
Indeno(1,2,3-cd)pyrene	ppm	0.0085	0.0072	17.5	30	86	WG349524
Isophorone	ppm	0.0077	0.0062	22.3	31	78	WG349524
n-Nitrosodi-n-propylamine	ppm	0.0074	0.0056	26.5	33	74	WG349524
n-Nitrosodimethylamine	ppm	0.0030	0.0015	65.8	50	31	WG349524
n-Nitrosodiphenylamine	ppm	0.0081	0.0063	24.0	23	81	WG349524
Naphthalene	ppm	0.0057	0.0045	23.1	45	57	WG349524
Nitrobenzene	ppm	0.0060	0.0047	23.9	43	61	WG349524
Pentachlorophenol	ppm	0.0064	0.0061	3.65	50	64	WG349524
Phenanthrene	ppm	0.0073	0.0057	25.4	22	74	WG349524
Phenol	ppm	0.0030	0.0021	34.2	33	31	WG349524
Pyrene	ppm	0.0085	0.0070	19.7	28	86	WG349524
Tetrachloroethene	mg/l	0.0508	0.0549	7.81	20	102	WG349526
TPH (GC/FID) Low Fraction	mg/kg	6.05	6.25	3.18	20	110	WG349540
TPH (GC/FID) High Fraction	ppm	51.9	52.0	0.171	25	87	WG349573
1,1,1,2-Tetrachloroethane	mg/l	0.0559	0.0553	1.08	20	112	WG349600
1,1,1-Trichloroethane	mg/l	0.0568	0.0596	4.77	20	114	WG349600
1,1,2,2-Tetrachloroethane	mg/l	0.0509	0.0543	6.45	20	102	WG349600
1,1,2-Trichloroethane	mg/l	0.0519	0.0531	2.40	20	104	WG349600
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0478	0.0526	9.57	20	96	WG349600
1,1-Dichloroethane	mg/l	0.0545	0.0572	4.78	20	109	WG349600
1,1-Dichloroethene	mg/l	0.0552	0.0613	10.6	20	110	WG349600
1,1-Dichloropropene	mg/l	0.0522	0.0557	6.41	20	104	WG349600
1,2,3-Trichlorobenzene	mg/l	0.0257	0.0473	59.3	20	51	WG349600
1,2,3-Trichloropropane	mg/l	0.0525	0.0567	7.68	20	105	WG349600
1,2,3-Trimethylbenzene	mg/l	0.0484	0.0493	1.84	20	97	WG349600
1,2,4-Trichlorobenzene	mg/l	0.0377	0.0467	21.3	20	75	WG349600
1,2,4-Trimethylbenzene	mg/l	0.0489	0.0482	1.62	20	98	WG349600
1,2-Dibromo-3-Chloropropane	mg/l	0.0483	0.0587	19.5	20	97	WG349600
1,2-Dibromoethane	mg/l	0.0514	0.0537	4.39	20	103	WG349600
1,2-Dichlorobenzene	mg/l	0.0457	0.0475	3.82	20	91	WG349600
1,2-Dichloroethane	mg/l	0.0568	0.0585	2.85	20	114	WG349600
1,2-Dichloropropane	mg/l	0.0540	0.0537	0.568	20	108	WG349600
1,3,5-Trimethylbenzene	mg/l	0.0502	0.0496	1.25	20	100	WG349600
1,3-Dichlorobenzene	mg/l	0.0465	0.0451	3.07	20	93	WG349600
1,3-Dichloropropane	mg/l	0.0492	0.0512	3.89	20	98	WG349600
1,4-Dichlorobenzene	mg/l	0.0442	0.0447	1.15	20	88	WG349600
2,2-Dichloropropane	mg/l	0.0559	0.0590	5.29	20	112	WG349600
2-Butanone (MEK)	mg/l	0.247	0.299	19.2	20	99	WG349600

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

2-Chloroethyl vinyl ether	mg/l	0.243	0.255	4.88	27	97	WG349600

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
2-Chlorotoluene	mg/l	0.0486	0.0486	0.105	20	97	WG349600
4-Chlorotoluene	mg/l	0.0475	0.0467	1.68	20	95	WG349600
4-Methyl-2-pentanone (MIBK)	mg/l	0.253	0.278	9.38	20	101	WG349600
Acetone	mg/l	0.246	0.283	14.0	20	98	WG349600
Acrolein	mg/l	0.227	0.268	16.7	39	91	WG349600
Acrylonitrile	mg/l	0.248	0.281	12.2	20	99	WG349600
Benzene	mg/l	0.0507	0.0534	5.34	20	101	WG349600
Bromobenzene	mg/l	0.0505	0.0500	1.11	20	101	WG349600
Bromodichloromethane	mg/l	0.0568	0.0584	2.75	20	114	WG349600
Bromoform	mg/l	0.0591	0.0606	2.43	20	118	WG349600
Bromomethane	mg/l	0.0503	0.0525	4.12	20	101	WG349600
Carbon tetrachloride	mg/l	0.0584	0.0618	5.63	20	117	WG349600
Chlorobenzene	mg/l	0.0502	0.0505	0.461	20	100	WG349600
Chlorodibromomethane	mg/l	0.0569	0.0569	0.106	20	114	WG349600
Chloroethane	mg/l	0.0495	0.0549	10.2	20	99	WG349600
Chloroform	mg/l	0.0547	0.0562	2.68	20	109	WG349600
Chloromethane	mg/l	0.0490	0.0500	2.09	20	98	WG349600
cis-1,2-Dichloroethene	mg/l	0.0517	0.0547	5.76	20	103	WG349600
cis-1,3-Dichloropropene	mg/l	0.0538	0.0538	0.111	20	108	WG349600
Di-isopropyl ether	mg/l	0.0525	0.0545	3.68	20	105	WG349600
Dibromomethane	mg/l	0.0561	0.0588	4.66	20	112	WG349600
Dichlorodifluoromethane	mg/l	0.0455	0.0490	7.21	24	91	WG349600
Ethylbenzene	mg/l	0.0491	0.0505	2.81	20	98	WG349600
Hexachlorobutadiene	mg/l	0.0463	0.0500	7.65	20	93	WG349600
Isopropylbenzene	mg/l	0.0499	0.0508	1.87	20	100	WG349600
Methyl tert-butyl ether	mg/l	0.0549	0.0581	5.71	20	110	WG349600
Methylene Chloride	mg/l	0.0521	0.0541	3.82	20	104	WG349600
n-Butylbenzene	mg/l	0.0451	0.0457	1.20	20	90	WG349600
n-Propylbenzene	mg/l	0.0488	0.0487	0.219	20	98	WG349600
Naphthalene	mg/l	0.0359	0.0556	43.1	20	72	WG349600
p-Isopropyltoluene	mg/l	0.0487	0.0475	2.47	20	97	WG349600
sec-Butylbenzene	mg/l	0.0493	0.0488	0.889	20	99	WG349600
Styrene	mg/l	0.0500	0.0503	0.620	20	100	WG349600
tert-Butylbenzene	mg/l	0.0514	0.0506	1.69	20	103	WG349600
Tetrachloroethene	mg/l	0.0482	0.0515	6.68	20	96	WG349600
Toluene	mg/l	0.0499	0.0518	3.78	20	100	WG349600
trans-1,2-Dichloroethene	mg/l	0.0546	0.0563	3.11	20	109	WG349600
trans-1,3-Dichloropropene	mg/l	0.0536	0.0550	2.44	20	107	WG349600
Trichloroethene	mg/l	0.0514	0.0539	4.76	20	103	WG349600
Trichlorofluoromethane	mg/l	0.0574	0.0632	9.61	20	115	WG349600
Vinyl chloride	mg/l	0.0486	0.0521	6.93	20	97	WG349600
Xylenes, Total	mg/l	0.147	0.150	1.79	20	98	WG349600
Oil & Grease (Hexane Extr)	mg/l	41.0	36.0	13.0	20	103	WG349723
1,1,1,2-Tetrachloroethane	mg/kg	0.0430	0.0447	3.79	20	86	WG349770
1,1,1-Trichloroethane	mg/kg	0.0458	0.0466	1.77	20	92	WG349770
1,1,2,2-Tetrachloroethane	mg/kg	0.0455	0.0452	0.579	20	91	WG349770
1,1,2-Trichloroethane	mg/kg	0.0420	0.0422	0.324	20	84	WG349770
1,1-Dichloroethane	mg/kg	0.0481	0.0484	0.690	20	96	WG349770
1,1-Dichloroethene	mg/kg	0.0411	0.0420	2.09	20	82	WG349770
1,1-Dichloropropene	mg/kg	0.0414	0.0421	1.58	20	83	WG349770
1,2,3-Trichlorobenzene	mg/kg	0.0483	0.0501	3.64	20	97	WG349770
1,2,3-Trichloropropane	mg/kg	0.0426	0.0424	0.427	20	85	WG349770
1,2,4-Trichlorobenzene	mg/kg	0.0485	0.0495	2.07	20	97	WG349770
1,2,4-Trimethylbenzene	mg/kg	0.0388	0.0394	1.56	20	78	WG349770
1,2-Dibromo-3-Chloropropane	mg/kg	0.0445	0.0435	2.19	21	89	WG349770
1,2-Dibromoethane	mg/kg	0.0388	0.0397	2.36	20	78	WG349770
1,2-Dichlorobenzene	mg/kg	0.0441	0.0436	0.958	20	88	WG349770

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110
Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

1,2-Dichloroethane	mg/kg	0.0505	0.0504	0.105	20	101	WG349770

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
1,2-Dichloropropane	mg/kg	0.0451	0.0451	0.0411	20	90	WG349770
1,3,5-Trimethylbenzene	mg/kg	0.0387	0.0395	2.09	20	77	WG349770
1,3-Dichlorobenzene	mg/kg	0.0399	0.0410	2.63	20	80	WG349770
1,3-Dichloropropane	mg/kg	0.0415	0.0418	0.544	20	83	WG349770
1,4-Dichlorobenzene	mg/kg	0.0426	0.0426	0.0235	20	85	WG349770
2,2-Dichloropropane	mg/kg	0.0456	0.0458	0.464	20	91	WG349770
2-Butanone (MEK)	mg/kg	0.255	0.247	3.34	25	102	WG349770
2-Chloroethyl vinyl ether	mg/kg	0.0256	0.0253	1.31	39	10	WG349770
2-Chlorotoluene	mg/kg	0.0408	0.0417	1.97	20	82	WG349770
4-Chlorotoluene	mg/kg	0.0410	0.0417	1.81	20	82	WG349770
4-Methyl-2-pentanone (MIBK)	mg/kg	0.262	0.255	2.79	23	105	WG349770
Acetone	mg/kg	0.277	0.257	7.38	25	111	WG349770
Acrylonitrile	mg/kg	0.254	0.246	3.31	20	102	WG349770
Benzene	mg/kg	0.0437	0.0445	1.86	20	87	WG349770
Bromobenzene	mg/kg	0.0429	0.0436	1.62	20	86	WG349770
Bromodichloromethane	mg/kg	0.0497	0.0487	2.05	20	99	WG349770
Bromoform	mg/kg	0.0438	0.0438	0.0433	20	88	WG349770
Bromomethane	mg/kg	0.0480	0.0529	9.66	20	96	WG349770
Carbon tetrachloride	mg/kg	0.0468	0.0474	1.30	20	94	WG349770
Chlorobenzene	mg/kg	0.0387	0.0399	2.95	20	77	WG349770
Chlorodibromomethane	mg/kg	0.0440	0.0448	1.77	20	88	WG349770
Chloroethane	mg/kg	0.0395	0.0407	2.98	20	79	WG349770
Chloroform	mg/kg	0.0511	0.0502	1.60	20	102	WG349770
Chloromethane	mg/kg	0.0295	0.0303	2.87	20	59	WG349770
cis-1,2-Dichloroethene	mg/kg	0.0453	0.0459	1.22	20	91	WG349770
cis-1,3-Dichloropropene	mg/kg	0.0448	0.0440	1.88	20	90	WG349770
Di-isopropyl ether	mg/kg	0.0539	0.0529	1.90	20	108	WG349770
Dibromomethane	mg/kg	0.0417	0.0416	0.239	20	83	WG349770
Dichlorodifluoromethane	mg/kg	0.0310	0.0316	2.00	22	62	WG349770
Ethylbenzene	mg/kg	0.0371	0.0385	3.71	20	74	WG349770
Hexachlorobutadiene	mg/kg	0.0448	0.0462	3.04	20	90	WG349770
Isopropylbenzene	mg/kg	0.0385	0.0398	3.19	20	77	WG349770
Methyl tert-butyl ether	mg/kg	0.0505	0.0496	1.87	20	101	WG349770
Methylene Chloride	mg/kg	0.0462	0.0468	1.13	20	92	WG349770
n-Butylbenzene	mg/kg	0.0444	0.0441	0.785	20	89	WG349770
n-Propylbenzene	mg/kg	0.0396	0.0406	2.47	20	79	WG349770
Naphthalene	mg/kg	0.0502	0.0532	5.76	20	100	WG349770
p-Isopropyltoluene	mg/kg	0.0399	0.0409	2.53	20	80	WG349770
sec-Butylbenzene	mg/kg	0.0398	0.0411	3.18	20	80	WG349770
Styrene	mg/kg	0.0400	0.0410	2.35	20	80	WG349770
tert-Butylbenzene	mg/kg	0.0405	0.0410	1.38	20	81	WG349770
Tetrachloroethene	mg/kg	0.0318	0.0330	3.69	20	64	WG349770
Toluene	mg/kg	0.0393	0.0399	1.39	20	79	WG349770
trans-1,2-Dichloroethene	mg/kg	0.0378	0.0392	3.65	20	76	WG349770
trans-1,3-Dichloropropene	mg/kg	0.0461	0.0451	2.21	20	92	WG349770
Trichloroethene	mg/kg	0.0398	0.0403	1.30	20	80	WG349770
Trichlorofluoromethane	mg/kg	0.0376	0.0389	3.47	20	75	WG349770
Vinyl chloride	mg/kg	0.0333	0.0345	3.41	20	67	WG349770
Xylenes, Total	mg/kg	0.110	0.114	3.34	20	74	WG349770
TPH (GC/FID) Low Fraction	mg/kg	5.26	5.75	8.84	20	96	WG349793
Chloroethane	mg/l	0.0888	0.0818	8.16	20	178	WG349796
Oil & Grease (Hexane Extr)	mg/kg	4400	4400	0.00	20	110	WG349916

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec Limit	Ref Samp	Batch

ENVIRONMENTAL SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Chromium	mg/kg	54.4	10.3	50	88.2	75-125	L334956-55	WG348817

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Lead	mg/kg	57.1	9.19	50	95.8	75-125	L334956-55	WG348817
Chromium	mg/l	0.961	0.0010	1	96.0	75-125	L335033-03	WG348833
Lead	mg/l	0.989	0.00	1	98.9	75-125	L335033-03	WG348833
PCB 1260	mg/kg	0.169	0.00	.167	101.	10-197	L335011-02	WG349011
Benzene	mg/l	0.0471	0.00	.05	94.2	16-158	L334962-02	WG349168
Di-isopropyl ether	mg/l	0.0510	0.00	.05	102.	39-160	L334962-02	WG349168
Ethylbenzene	mg/l	0.0498	0.00	.05	99.7	29-150	L334962-02	WG349168
Methyl tert-butyl ether	mg/l	0.0533	0.00	.05	107.	24-167	L334962-02	WG349168
Toluene	mg/l	0.0489	0.00	.05	97.8	22-152	L334962-02	WG349168
Total Xylenes	mg/l	0.152	0.00	.15	101.	27-151	L334962-02	WG349168
1,1,1,2-Tetrachloroethane	mg/l	0.0611	0.00	.05	122.	45-152	L335006-06	WG349361
1,1,1-Trichloroethane	mg/l	0.0611	0.00	.05	122.	31-161	L335006-06	WG349361
1,1,2,2-Tetrachloroethane	mg/l	0.0570	0.00	.05	114.	49-149	L335006-06	WG349361
1,1,2-Trichloroethane	mg/l	0.0547	0.00	.05	109.	46-145	L335006-06	WG349361
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0557	0.00	.05	111.	14-168	L335006-06	WG349361
1,1-Dichloroethane	mg/l	0.0527	0.00	.05	105.	30-159	L335006-06	WG349361
1,1-Dichloroethene	mg/l	0.0517	0.00	.05	103.	10-162	L335006-06	WG349361
1,1-Dichloropropene	mg/l	0.0517	0.00	.05	103.	14-162	L335006-06	WG349361
1,2,3-Trichlorobenzene	mg/l	0.0520	0.00	.05	104.	32-143	L335006-06	WG349361
1,2,3-Trichloropropane	mg/l	0.0613	0.00	.05	123.	48-148	L335006-06	WG349361
1,2,3-Trimethylbenzene	mg/l	0.0500	0.00	.05	100.	36-141	L335006-06	WG349361
1,2,4-Trichlorobenzene	mg/l	0.0459	0.00	.05	91.8	27-142	L335006-06	WG349361
1,2,4-Trimethylbenzene	mg/l	0.0490	0.00	.05	98.1	29-153	L335006-06	WG349361
1,2-Dibromo-3-Chloropropane	mg/l	0.0573	0.00	.05	115.	37-148	L335006-06	WG349361
1,2-Dibromoethane	mg/l	0.0555	0.00	.05	111.	41-149	L335006-06	WG349361
1,2-Dichlorobenzene	mg/l	0.0483	0.00	.05	96.7	40-139	L335006-06	WG349361
1,2-Dichloroethane	mg/l	0.0641	0.00	.05	128.	29-167	L335006-06	WG349361
1,2-Dichloropropane	mg/l	0.0514	0.00	.05	103.	39-148	L335006-06	WG349361
1,3,5-Trimethylbenzene	mg/l	0.0502	0.00	.05	100.	33-149	L335006-06	WG349361
1,3-Dichlorobenzene	mg/l	0.0465	0.00	.05	93.0	32-148	L335006-06	WG349361
1,3-Dichloropropane	mg/l	0.0519	0.00	.05	104.	44-142	L335006-06	WG349361
1,4-Dichlorobenzene	mg/l	0.0453	0.00	.05	90.5	32-136	L335006-06	WG349361
2,2-Dichloropropane	mg/l	0.0578	0.00	.05	116.	14-158	L335006-06	WG349361
2-Butanone (MEK)	mg/l	0.285	0.00	.25	114.	32-151	L335006-06	WG349361
2-Chloroethyl vinyl ether	mg/l	0.0003	0.00	.25	0.1	0-175	L335006-06	WG349361
2-Chlorotoluene	mg/l	0.0499	0.00	.05	99.7	35-147	L335006-06	WG349361
4-Chlorotoluene	mg/l	0.0483	0.00	.05	96.6	33-147	L335006-06	WG349361
4-Methyl-2-pentanone (MIBK)	mg/l	0.288	0.00	.25	115.	40-160	L335006-06	WG349361
Acetone	mg/l	0.310	0.00	.25	124.	25-157	L335006-06	WG349361
Acrolein	mg/l	0.214	0.00	.25	85.8	0-179	L335006-06	WG349361
Acrylonitrile	mg/l	0.274	0.00	.25	110.	37-162	L335006-06	WG349361
Benzene	mg/l	0.0477	0.00	.05	95.4	16-158	L335006-06	WG349361
Bromobenzene	mg/l	0.0521	0.00	.05	104.	37-147	L335006-06	WG349361
Bromodichloromethane	mg/l	0.0641	0.00	.05	128.	45-147	L335006-06	WG349361
Bromoform	mg/l	0.0742	0.00	.05	148.	38-152	L335006-06	WG349361
Bromomethane	mg/l	0.0482	0.00	.05	96.3	0-191	L335006-06	WG349361
Carbon tetrachloride	mg/l	0.0666	0.00	.05	133.	22-168	L335006-06	WG349361
Chlorobenzene	mg/l	0.0498	0.00	.05	99.5	33-148	L335006-06	WG349361
Chlorodibromomethane	mg/l	0.0649	0.00	.05	130.	48-151	L335006-06	WG349361
Chloroethane	mg/l	0.0470	0.00	.05	94.0	4-176	L335006-06	WG349361
Chloroform	mg/l	0.0576	0.00	.05	115.	37-147	L335006-06	WG349361
Chloromethane	mg/l	0.0475	0.00	.05	95.1	10-174	L335006-06	WG349361
cis-1,2-Dichloroethene	mg/l	0.0503	0.00	.05	101.	29-156	L335006-06	WG349361
cis-1,3-Dichloropropene	mg/l	0.0548	0.00	.05	110.	35-148	L335006-06	WG349361
Di-isopropyl ether	mg/l	0.0528	0.00	.05	106.	39-160	L335006-06	WG349361

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Dibromomethane	mg/l	0.0622	0.00	.05	124.	36-152	L335006-06	WG349361

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Dichlorodifluoromethane	mg/l	0.0593	0.00	.05	119.	0-200	L335006-06	WG349361
Ethylbenzene	mg/l	0.0496	0.00	.05	99.3	29-150	L335006-06	WG349361
Hexachlorobutadiene	mg/l	0.0515	0.00	.05	103.	28-144	L335006-06	WG349361
Isopropylbenzene	mg/l	0.0509	0.00	.05	102.	35-147	L335006-06	WG349361
Methyl tert-butyl ether	mg/l	0.0597	0.00	.05	119.	24-167	L335006-06	WG349361
Methylene Chloride	mg/l	0.0486	0.00	.05	97.2	23-151	L335006-06	WG349361
n-Butylbenzene	mg/l	0.0457	0.00	.05	91.4	22-151	L335006-06	WG349361
n-Propylbenzene	mg/l	0.0490	0.00	.05	97.9	26-150	L335006-06	WG349361
Naphthalene	mg/l	0.0539	0.00	.05	108.	24-160	L335006-06	WG349361
p-Isopropyltoluene	mg/l	0.0481	0.00	.05	96.2	28-151	L335006-06	WG349361
sec-Butylbenzene	mg/l	0.0492	0.00	.05	98.4	32-149	L335006-06	WG349361
Styrene	mg/l	0.0497	0.00	.05	99.5	38-149	L335006-06	WG349361
tert-Butylbenzene	mg/l	0.0517	0.00	.05	103.	36-149	L335006-06	WG349361
Toluene	mg/l	0.0496	0.00	.05	99.2	22-152	L335006-06	WG349361
trans-1,2-Dichloroethene	mg/l	0.0507	0.00	.05	101.	11-160	L335006-06	WG349361
trans-1,3-Dichloropropene	mg/l	0.0577	0.00	.05	115.	33-153	L335006-06	WG349361
Trichloroethene	mg/l	0.0525	0.00	.05	105.	18-163	L335006-06	WG349361
Trichlorofluoromethane	mg/l	0.0657	0.00	.05	131.	10-177	L335006-06	WG349361
Vinyl chloride	mg/l	0.0481	0.00	.05	96.2	0-179	L335006-06	WG349361
Xylenes, Total	mg/l	0.146	0.00	.15	97.3	27-151	L335006-06	WG349361
1,1,1,2-Tetrachloroethane	mg/l	1.04	0.0062	.05	103.	45-152	L334925-01	WG349407
1,1,1-Trichloroethane	mg/l	1.05	0.0081	.05	105.	31-161	L334925-01	WG349407
1,1,2,2-Tetrachloroethane	mg/l	0.995	0.00	.05	99.5	49-149	L334925-01	WG349407
1,1,2-Trichloroethane	mg/l	1.02	0.00	.05	102.	46-145	L334925-01	WG349407
1,1-Dichloroethane	mg/l	0.940	0.0094	.05	93.0	30-159	L334925-01	WG349407
1,1-Dichloroethene	mg/l	1.04	0.0080	.05	103.	10-162	L334925-01	WG349407
1,1-Dichloropropene	mg/l	0.963	0.0077	.05	95.6	14-162	L334925-01	WG349407
1,2,3-Trichlorobenzene	mg/l	0.884	0.0081	.05	87.6	32-143	L334925-01	WG349407
1,2,3-Trichloropropane	mg/l	1.03	0.00	.05	103.	48-148	L334925-01	WG349407
1,2,4-Trichlorobenzene	mg/l	0.915	0.0089	.05	90.6	27-142	L334925-01	WG349407
1,2,4-Trimethylbenzene	mg/l	1.16	0.190	.05	97.2	29-153	L334925-01	WG349407
1,2-Dibromo-3-Chloropropane	mg/l	1.01	0.00	.05	101.	37-148	L334925-01	WG349407
1,2-Dibromoethane	mg/l	0.988	0.00	.05	98.8	41-149	L334925-01	WG349407
1,2-Dichlorobenzene	mg/l	0.941	0.0060	.05	93.5	40-139	L334925-01	WG349407
1,2-Dichloroethane	mg/l	0.838	0.0028	.05	83.5	29-167	L334925-01	WG349407
1,2-Dichloropropane	mg/l	0.938	0.0059	.05	93.2	39-148	L334925-01	WG349407
1,3,5-Trimethylbenzene	mg/l	1.03	0.0490	.05	98.3	33-149	L334925-01	WG349407
1,3-Dichlorobenzene	mg/l	0.987	0.0084	.05	97.8	32-148	L334925-01	WG349407
1,3-Dichloropropane	mg/l	0.912	0.0031	.05	90.9	44-142	L334925-01	WG349407
1,4-Dichlorobenzene	mg/l	0.911	0.0079	.05	90.3	32-136	L334925-01	WG349407
2,2-Dichloropropane	mg/l	1.26	0.0381	.05	122.	14-158	L334925-01	WG349407
2-Butanone (MEK)	mg/l	4.81	0.00	.25	96.2	32-151	L334925-01	WG349407
2-Chlorotoluene	mg/l	0.979	0.0236	.05	95.5	35-147	L334925-01	WG349407
4-Chlorotoluene	mg/l	0.949	0.0097	.05	93.9	33-147	L334925-01	WG349407
4-Methyl-2-pentanone (MIBK)	mg/l	4.36	0.00	.25	87.2	40-160	L334925-01	WG349407
Acetone	mg/l	3.48	0.00	.25	69.6	25-157	L334925-01	WG349407
Acrolein	mg/l	3.82	0.108	.25	74.3	0-179	L334925-01	WG349407
Acrylonitrile	mg/l	4.11	0.0279	.25	81.7	37-162	L334925-01	WG349407
Benzene	mg/l	1.13	0.190	.05	93.6	16-158	L334925-01	WG349407
Bromobenzene	mg/l	0.923	0.0059	.05	91.7	37-147	L334925-01	WG349407
Bromodichloromethane	mg/l	1.00	0.0050	.05	99.9	45-147	L334925-01	WG349407
Bromoform	mg/l	1.10	0.00	.05	110.	38-152	L334925-01	WG349407
Bromomethane	mg/l	1.11	0.0081	.05	110.	0-191	L334925-01	WG349407
Carbon tetrachloride	mg/l	0.812	0.00	.05	81.2	22-168	L334925-01	WG349407
Chlorobenzene	mg/l	1.02	0.0084	.05	101.	33-148	L334925-01	WG349407
Chlorodibromomethane	mg/l	1.06	0.0025	.05	106.	48-151	L334925-01	WG349407
Chloroform	mg/l	0.970	0.0086	.05	96.2	37-147	L334925-01	WG349407
Chloromethane	mg/l	0.707	0.0090	.05	69.8	10-174	L334925-01	WG349407

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

cis-1,2-Dichloroethene	mg/l	1.00	0.0087	.05	99.5	29-156	L334925-01	WG349407

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Di-isopropyl ether	mg/l	0.773	0.0044	.05	76.8	39-160	L334925-01	WG349407
Dibromomethane	mg/l	0.953	0.00	.05	95.3	36-152	L334925-01	WG349407
Dichlorodifluoromethane	mg/l	0.724	0.00	.05	72.4	0-200	L334925-01	WG349407
Ethylbenzene	mg/l	1.55	0.540	.05	101.	29-150	L334925-01	WG349407
Hexachlorobutadiene	mg/l	0.982	0.0141	.05	96.8	28-144	L334925-01	WG349407
Isopropylbenzene	mg/l	1.06	0.0450	.05	102.	35-147	L334925-01	WG349407
m&p-Xylenes	mg/l	2.92	1.17	.1	87.3	24-151	L334925-01	WG349407
Methyl tert-butyl ether	mg/l	1.09	0.0082	.05	108.	24-167	L334925-01	WG349407
Methylene Chloride	mg/l	0.913	0.0091	.05	90.4	23-151	L334925-01	WG349407
n-Butylbenzene	mg/l	0.939	0.0120	.05	92.7	22-151	L334925-01	WG349407
n-Propylbenzene	mg/l	1.02	0.0580	.05	96.6	26-150	L334925-01	WG349407
Naphthalene	mg/l	0.906	0.0320	.05	87.4	24-160	L334925-01	WG349407
o-Xylene	mg/l	1.18	0.168	.05	101.	32-151	L334925-01	WG349407
p-Isopropyltoluene	mg/l	1.03	0.0140	.05	101.	28-151	L334925-01	WG349407
sec-Butylbenzene	mg/l	1.01	0.0120	.05	100.	32-149	L334925-01	WG349407
Styrene	mg/l	1.01	0.0077	.05	100.	38-149	L334925-01	WG349407
tert-Butylbenzene	mg/l	1.03	0.0110	.05	102.	36-149	L334925-01	WG349407
Tetrachloroethene	mg/l	1.01	0.0173	.05	98.8	13-157	L334925-01	WG349407
Toluene	mg/l	1.04	0.0770	.05	96.0	22-152	L334925-01	WG349407
trans-1,2-Dichloroethene	mg/l	0.965	0.0104	.05	95.4	11-160	L334925-01	WG349407
Trichloroethene	mg/l	1.03	0.0105	.05	102.	18-163	L334925-01	WG349407
Trichlorofluoromethane	mg/l	0.791	0.0024	.05	78.9	10-177	L334925-01	WG349407
Vinyl chloride	mg/l	0.804	0.0071	.05	79.7	0-179	L334925-01	WG349407
Tetrachloroethene	mg/l	0.974	0.00	.05	97.4	13-157	L334929-03	WG349526
TPH (GC/FID) Low Fraction	mg/kg	14.2	3.30	5.5	39.6	55-109	L335016-01	WG349540
TPH (GC/FID) High Fraction	ppm	49.8	0.00	60	83.0	50-150	L335011-02	WG349573
1,1,1,2-Tetrachloroethane	mg/l	0.0560	0.00	.05	112.	45-152	L335617-01	WG349600
1,1,1-Trichloroethane	mg/l	0.0605	0.00	.05	121.	31-161	L335617-01	WG349600
1,1,2,2-Tetrachloroethane	mg/l	0.0524	0.00	.05	105.	49-149	L335617-01	WG349600
1,1,2-Trichloroethane	mg/l	0.0536	0.00	.05	107.	46-145	L335617-01	WG349600
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0527	0.00	.05	105.	14-168	L335617-01	WG349600
1,1-Dichloroethane	mg/l	0.0587	0.00	.05	117.	30-159	L335617-01	WG349600
1,1-Dichloroethene	mg/l	0.0624	0.00	.05	125.	10-162	L335617-01	WG349600
1,1-Dichloropropene	mg/l	0.0573	0.00	.05	115.	14-162	L335617-01	WG349600
1,2,3-Trichlorobenzene	mg/l	0.0362	0.00	.05	72.3	32-143	L335617-01	WG349600
1,2,3-Trichloropropane	mg/l	0.0549	0.00	.05	110.	48-148	L335617-01	WG349600
1,2,3-Trimethylbenzene	mg/l	0.0509	0.00	.05	102.	36-141	L335617-01	WG349600
1,2,4-Trichlorobenzene	mg/l	0.0416	0.00	.05	83.2	27-142	L335617-01	WG349600
1,2,4-Trimethylbenzene	mg/l	0.0479	0.00	.05	95.8	29-153	L335617-01	WG349600
1,2-Dibromo-3-Chloropropane	mg/l	0.0556	0.00	.05	111.	37-148	L335617-01	WG349600
1,2-Dibromoethane	mg/l	0.0532	0.00	.05	106.	41-149	L335617-01	WG349600
1,2-Dichlorobenzene	mg/l	0.0488	0.00	.05	97.5	40-139	L335617-01	WG349600
1,2-Dichloroethane	mg/l	0.0613	0.00	.05	123.	29-167	L335617-01	WG349600
1,2-Dichloropropane	mg/l	0.0573	0.00	.05	115.	39-148	L335617-01	WG349600
1,3,5-Trimethylbenzene	mg/l	0.0487	0.00	.05	97.4	33-149	L335617-01	WG349600
1,3-Dichlorobenzene	mg/l	0.0445	0.00	.05	89.0	32-148	L335617-01	WG349600
1,3-Dichloropropane	mg/l	0.0512	0.00	.05	102.	44-142	L335617-01	WG349600
1,4-Dichlorobenzene	mg/l	0.0460	0.00	.05	92.0	32-136	L335617-01	WG349600
2,2-Dichloropropane	mg/l	0.0598	0.00	.05	120.	14-158	L335617-01	WG349600
2-Butanone (MEK)	mg/l	0.305	0.00	.25	122.	32-151	L335617-01	WG349600
2-Chloroethyl vinyl ether	mg/l	0.261	0.00	.25	105.	0-175	L335617-01	WG349600
2-Chlorotoluene	mg/l	0.0481	0.00	.05	96.2	35-147	L335617-01	WG349600
4-Chlorotoluene	mg/l	0.0461	0.00	.05	92.2	33-147	L335617-01	WG349600
4-Methyl-2-pentanone (MIBK)	mg/l	0.283	0.00	.25	113.	40-160	L335617-01	WG349600
Acetone	mg/l	0.326	0.00	.25	130.	25-157	L335617-01	WG349600

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Acrolein	mg/l	0.282	0.00	.25	113.	0-179	L335617-01	WG349600

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Acrylonitrile	mg/l	0.294	0.00	.25	118.	37-162	L335617-01	WG349600
Benzene	mg/l	0.0544	0.00	.05	109.	16-158	L335617-01	WG349600
Bromobenzene	mg/l	0.0501	0.00	.05	100.	37-147	L335617-01	WG349600
Bromodichloromethane	mg/l	0.0597	0.00	.05	119.	45-147	L335617-01	WG349600
Bromoform	mg/l	0.0612	0.00	.05	122.	38-152	L335617-01	WG349600
Bromomethane	mg/l	0.0541	0.00	.05	108.	0-191	L335617-01	WG349600
Carbon tetrachloride	mg/l	0.0645	0.00	.05	129.	22-168	L335617-01	WG349600
Chlorobenzene	mg/l	0.0503	0.00	.05	101.	33-148	L335617-01	WG349600
Chlorodibromomethane	mg/l	0.0586	0.00	.05	117.	48-151	L335617-01	WG349600
Chloroethane	mg/l	0.0542	0.00	.05	108.	4-176	L335617-01	WG349600
Chloroform	mg/l	0.0581	0.00	.05	116.	37-147	L335617-01	WG349600
Chloromethane	mg/l	0.0529	0.00	.05	106.	10-174	L335617-01	WG349600
cis-1,2-Dichloroethene	mg/l	0.0557	0.00	.05	111.	29-156	L335617-01	WG349600
cis-1,3-Dichloropropene	mg/l	0.0563	0.00	.05	113.	35-148	L335617-01	WG349600
Di-isopropyl ether	mg/l	0.0557	0.00	.05	111.	39-160	L335617-01	WG349600
Dibromomethane	mg/l	0.0613	0.00	.05	123.	36-152	L335617-01	WG349600
Dichlorodifluoromethane	mg/l	0.0501	0.00	.05	100.	0-200	L335617-01	WG349600
Ethylbenzene	mg/l	0.0491	0.00	.05	98.2	29-150	L335617-01	WG349600
Hexachlorobutadiene	mg/l	0.0491	0.00	.05	98.2	28-144	L335617-01	WG349600
Isopropylbenzene	mg/l	0.0510	0.00	.05	102.	35-147	L335617-01	WG349600
Methyl tert-butyl ether	mg/l	0.0593	0.00	.05	119.	24-167	L335617-01	WG349600
Methylene Chloride	mg/l	0.0558	0.0006	.05	110.	23-151	L335617-01	WG349600
n-Butylbenzene	mg/l	0.0474	0.00	.05	94.9	22-151	L335617-01	WG349600
n-Propylbenzene	mg/l	0.0482	0.00	.05	96.4	26-150	L335617-01	WG349600
Naphthalene	mg/l	0.0451	0.00	.05	90.3	24-160	L335617-01	WG349600
p-Isopropyltoluene	mg/l	0.0471	0.00	.05	94.2	28-151	L335617-01	WG349600
sec-Butylbenzene	mg/l	0.0487	0.00	.05	97.4	32-149	L335617-01	WG349600
Styrene	mg/l	0.0499	0.00	.05	99.7	38-149	L335617-01	WG349600
tert-Butylbenzene	mg/l	0.0502	0.00	.05	100.	36-149	L335617-01	WG349600
Tetrachloroethene	mg/l	0.0518	0.00	.05	104.	13-157	L335617-01	WG349600
Toluene	mg/l	0.0533	0.00	.05	107.	22-152	L335617-01	WG349600
trans-1,2-Dichloroethene	mg/l	0.0586	0.00	.05	117.	11-160	L335617-01	WG349600
trans-1,3-Dichloropropene	mg/l	0.0556	0.00	.05	111.	33-153	L335617-01	WG349600
Trichloroethene	mg/l	0.0557	0.00	.05	111.	18-163	L335617-01	WG349600
Trichlorofluoromethane	mg/l	0.0647	0.00	.05	129.	10-177	L335617-01	WG349600
Vinyl chloride	mg/l	0.0535	0.00	.05	107.	0-179	L335617-01	WG349600
Xylenes, Total	mg/l	0.147	0.00	.15	98.0	27-151	L335617-01	WG349600
1,1,1,2-Tetrachloroethane	mg/kg	19.8	0.00	.05	88.2	29-145	L335241-02	WG349770
1,1,1-Trichloroethane	mg/kg	20.7	0.00	.05	92.1	23-147	L335241-02	WG349770
1,1,2,2-Tetrachloroethane	mg/kg	20.6	0.00	.05	91.6	18-150	L335241-02	WG349770
1,1,2-Trichloroethane	mg/kg	18.1	0.00	.05	80.6	35-140	L335241-02	WG349770
1,1-Dichloroethane	mg/kg	22.2	0.00	.05	98.6	24-148	L335241-02	WG349770
1,1-Dichloroethene	mg/kg	18.0	0.00	.05	79.8	10-149	L335241-02	WG349770
1,1-Dichloropropene	mg/kg	18.8	0.00	.05	83.6	10-141	L335241-02	WG349770
1,2,3-Trichlorobenzene	mg/kg	21.3	0.00	.05	94.6	10-129	L335241-02	WG349770
1,2,3-Trichloropropane	mg/kg	20.6	0.00	.05	91.7	30-148	L335241-02	WG349770
1,2,4-Trichlorobenzene	mg/kg	21.2	0.00	.05	94.4	10-119	L335241-02	WG349770
1,2,4-Trimethylbenzene	mg/kg	122.	120.	.05	7.8	10-145	L335241-02	WG349770
1,2-Dibromo-3-Chloropropane	mg/kg	19.5	0.00	.05	86.5	19-145	L335241-02	WG349770
1,2-Dibromoethane	mg/kg	17.4	0.00	.05	77.1	24-145	L335241-02	WG349770
1,2-Dichlorobenzene	mg/kg	19.3	0.00	.05	86.0	12-130	L335241-02	WG349770
1,2-Dichloroethane	mg/kg	22.9	0.00	.05	102.	21-155	L335241-02	WG349770
1,2-Dichloropropane	mg/kg	20.5	0.00	.05	91.0	28-144	L335241-02	WG349770
1,3,5-Trimethylbenzene	mg/kg	89.7	79.0	.05	47.4	10-135	L335241-02	WG349770
1,3-Dichlorobenzene	mg/kg	18.1	0.00	.05	80.6	10-129	L335241-02	WG349770
1,3-Dichloropropane	mg/kg	18.8	0.00	.05	83.6	31-137	L335241-02	WG349770
1,4-Dichlorobenzene	mg/kg	19.1	0.00	.05	85.1	10-121	L335241-02	WG349770
2,2-Dichloropropane	mg/kg	21.6	0.00	.05	96.2	18-144	L335241-02	WG349770

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

2-Butanone (MEK)	mg/kg	114.	0.00	.25	102.	21-143	L335241-02	WG349770

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
2-Chloroethyl vinyl ether	mg/kg	21.4	0.00	.25	19.1	0-176	L335241-02	WG349770
2-Chlorotoluene	mg/kg	27.1	0.00	.05	120.	10-132	L335241-02	WG349770
4-Chlorotoluene	mg/kg	18.5	0.00	.05	82.4	10-129	L335241-02	WG349770
4-Methyl-2-pentanone (MIBK)	mg/kg	118.	0.00	.25	105.	31-151	L335241-02	WG349770
Acetone	mg/kg	127.	0.00	.25	113.	13-158	L335241-02	WG349770
Acrylonitrile	mg/kg	117.	0.00	.25	104.	20-154	L335241-02	WG349770
Benzene	mg/kg	43.5	25.0	.05	82.3	16-143	L335241-02	WG349770
Bromobenzene	mg/kg	26.2	0.00	.05	117.	14-135	L335241-02	WG349770
Bromodichloromethane	mg/kg	20.0	0.00	.05	89.1	27-139	L335241-02	WG349770
Bromoform	mg/kg	19.1	0.00	.05	85.0	21-144	L335241-02	WG349770
Bromomethane	mg/kg	19.9	0.00	.05	88.4	0-180	L335241-02	WG349770
Carbon tetrachloride	mg/kg	21.2	0.00	.05	94.4	12-149	L335241-02	WG349770
Chlorobenzene	mg/kg	17.3	0.00	.05	76.9	17-134	L335241-02	WG349770
Chlorodibromomethane	mg/kg	19.5	0.00	.05	86.8	28-147	L335241-02	WG349770
Chloroethane	mg/kg	16.8	0.00	.05	74.7	0-172	L335241-02	WG349770
Chloroform	mg/kg	23.2	0.00	.05	103.	28-138	L335241-02	WG349770
Chloromethane	mg/kg	13.7	0.00	.05	60.9	10-158	L335241-02	WG349770
cis-1,2-Dichloroethene	mg/kg	20.6	0.00	.05	91.5	21-147	L335241-02	WG349770
cis-1,3-Dichloropropene	mg/kg	19.8	0.00	.05	88.2	17-145	L335241-02	WG349770
Di-isopropyl ether	mg/kg	24.7	0.00	.05	110.	31-153	L335241-02	WG349770
Dibromomethane	mg/kg	18.9	0.00	.05	83.8	24-147	L335241-02	WG349770
Dichlorodifluoromethane	mg/kg	14.5	0.00	.05	64.6	0-192	L335241-02	WG349770
Ethylbenzene	mg/kg	191.	180.	.05	49.5	12-137	L335241-02	WG349770
Hexachlorobutadiene	mg/kg	18.4	0.00	.05	81.6	10-123	L335241-02	WG349770
Isopropylbenzene	mg/kg	36.3	20.0	.05	72.3	14-134	L335241-02	WG349770
Methyl tert-butyl ether	mg/kg	36.1	12.0	.05	107.	21-157	L335241-02	WG349770
Methylene Chloride	mg/kg	20.8	0.00	.05	92.3	12-149	L335241-02	WG349770
n-Butylbenzene	mg/kg	60.7	20.0	.05	181.	10-130	L335241-02	WG349770
n-Propylbenzene	mg/kg	61.6	53.0	.05	38.3	10-130	L335241-02	WG349770
Naphthalene	mg/kg	87.7	62.0	.05	114.	0-146	L335241-02	WG349770
p-Isopropyltoluene	mg/kg	21.8	4.30	.05	77.9	10-131	L335241-02	WG349770
sec-Butylbenzene	mg/kg	28.7	12.0	.05	74.1	10-134	L335241-02	WG349770
Styrene	mg/kg	23.9	0.00	.05	106.	10-140	L335241-02	WG349770
tert-Butylbenzene	mg/kg	18.2	0.00	.05	81.1	11-137	L335241-02	WG349770
Tetrachloroethene	mg/kg	14.1	0.00	.05	62.8	10-131	L335241-02	WG349770
Toluene	mg/kg	153.	150.	.05	14.5	12-136	L335241-02	WG349770
trans-1,2-Dichloroethene	mg/kg	16.8	0.00	.05	74.8	10-143	L335241-02	WG349770
trans-1,3-Dichloropropene	mg/kg	20.8	0.00	.05	92.3	16-147	L335241-02	WG349770
Trichloroethene	mg/kg	17.2	0.00	.05	76.4	10-155	L335241-02	WG349770
Trichlorofluoromethane	mg/kg	17.1	0.00	.05	76.1	10-154	L335241-02	WG349770
Vinyl chloride	mg/kg	15.4	0.00	.05	68.5	10-159	L335241-02	WG349770
Xylenes, Total	mg/kg	453.	430.	.15	33.5	10-138	L335241-02	WG349770
TPH (GC/FID) Low Fraction	mg/kg	4.80	0.230	5.5	83.0	55-109	L335348-10	WG349793
Chloroethane	mg/l	0.0733	0.00	.05	147.	4-176	L335011-03	WG349796
Oil & Grease (Hexane Extr)	mg/kg	4400	0.00	4000	110.	80-120	L335011-04	WG349916

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Chromium	mg/kg	55.1	54.4	1.28	20	89.6	L334956-55	WG348817
Lead	mg/kg	58.1	57.1	1.74	20	97.8	L334956-55	WG348817
Chromium	mg/l	0.940	0.961	2.21	20	93.9	L335033-03	WG348833
Lead	mg/l	0.981	0.989	0.812	20	98.1	L335033-03	WG348833
PCB 1260	mg/kg	0.167	0.169	1.58	39	99.8	L335011-02	WG349011

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Analyte	Units	Matrix Spike Duplicate MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Benzene	mg/l	0.0455	0.0471	3.53	21	91.0	L334962-02	WG349168
Di-isopropyl ether	mg/l	0.0499	0.0510	2.19	21	99.8	L334962-02	WG349168
Ethylbenzene	mg/l	0.0478	0.0498	4.12	24	95.7	L334962-02	WG349168
Methyl tert-butyl ether	mg/l	0.0378	0.0533	34.0	22	75.6	L334962-02	WG349168
Toluene	mg/l	0.0482	0.0489	1.53	22	96.3	L334962-02	WG349168
Total Xylenes	mg/l	0.148	0.152	2.66	23	98.5	L334962-02	WG349168
1,1,1,2-Tetrachloroethane	mg/l	0.0612	0.0611	0.129	21	122.	L335006-06	WG349361
1,1,1-Trichloroethane	mg/l	0.0590	0.0611	3.55	23	118.	L335006-06	WG349361
1,1,2,2-Tetrachloroethane	mg/l	0.0570	0.0570	0.0651	22	114.	L335006-06	WG349361
1,1,2-Trichloroethane	mg/l	0.0555	0.0547	1.59	20	111.	L335006-06	WG349361
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0519	0.0557	6.99	24	104.	L335006-06	WG349361
1,1-Dichloroethane	mg/l	0.0514	0.0527	2.63	21	103.	L335006-06	WG349361
1,1-Dichloroethene	mg/l	0.0464	0.0517	10.8	23	92.8	L335006-06	WG349361
1,1-Dichloropropene	mg/l	0.0493	0.0517	4.89	23	98.5	L335006-06	WG349361
1,2,3-Trichlorobenzene	mg/l	0.0362	0.0520	35.7	33	72.5	L335006-06	WG349361
1,2,3-Trichloropropane	mg/l	0.0639	0.0613	4.08	23	128.	L335006-06	WG349361
1,2,3-Trimethylbenzene	mg/l	0.0486	0.0500	2.73	25	97.3	L335006-06	WG349361
1,2,4-Trichlorobenzene	mg/l	0.0415	0.0459	10.1	30	82.9	L335006-06	WG349361
1,2,4-Trimethylbenzene	mg/l	0.0496	0.0490	1.05	27	99.1	L335006-06	WG349361
1,2-Dibromo-3-Chloropropane	mg/l	0.0588	0.0573	2.64	27	118.	L335006-06	WG349361
1,2-Dibromoethane	mg/l	0.0563	0.0555	1.46	21	113.	L335006-06	WG349361
1,2-Dichlorobenzene	mg/l	0.0474	0.0483	2.03	23	94.7	L335006-06	WG349361
1,2-Dichloroethane	mg/l	0.0639	0.0641	0.387	21	128.	L335006-06	WG349361
1,2-Dichloropropane	mg/l	0.0523	0.0514	1.92	20	105.	L335006-06	WG349361
1,3,5-Trimethylbenzene	mg/l	0.0503	0.0502	0.0839	26	101.	L335006-06	WG349361
1,3-Dichlorobenzene	mg/l	0.0482	0.0465	3.53	24	96.4	L335006-06	WG349361
1,3-Dichloropropane	mg/l	0.0521	0.0519	0.473	20	104.	L335006-06	WG349361
1,4-Dichlorobenzene	mg/l	0.0439	0.0453	2.99	23	87.9	L335006-06	WG349361
2,2-Dichloropropane	mg/l	0.0574	0.0578	0.778	23	115.	L335006-06	WG349361
2-Butanone (MEK)	mg/l	0.279	0.285	2.07	26	112.	L335006-06	WG349361
2-Chloroethyl vinyl ether	mg/l	0.0009	0.0003	82.4	75	0.380	L335006-06	WG349361
2-Chlorotoluene	mg/l	0.0504	0.0499	1.07	24	101.	L335006-06	WG349361
4-Chlorotoluene	mg/l	0.0488	0.0483	1.09	25	97.6	L335006-06	WG349361
4-Methyl-2-pentanone (MIBK)	mg/l	0.282	0.288	1.88	28	113.	L335006-06	WG349361
Acetone	mg/l	0.299	0.310	3.72	26	120.	L335006-06	WG349361
Acrolein	mg/l	0.203	0.214	5.55	39	81.2	L335006-06	WG349361
Acrylonitrile	mg/l	0.277	0.274	1.25	24	111.	L335006-06	WG349361
Benzene	mg/l	0.0471	0.0477	1.31	21	94.2	L335006-06	WG349361
Bromobenzene	mg/l	0.0525	0.0521	0.857	23	105.	L335006-06	WG349361
Bromodichloromethane	mg/l	0.0627	0.0641	2.24	20	125.	L335006-06	WG349361
Bromoform	mg/l	0.0746	0.0742	0.656	20	149.	L335006-06	WG349361
Bromomethane	mg/l	0.0466	0.0482	3.28	35	93.2	L335006-06	WG349361
Carbon tetrachloride	mg/l	0.0623	0.0666	6.62	24	125.	L335006-06	WG349361
Chlorobenzene	mg/l	0.0495	0.0498	0.568	22	99.0	L335006-06	WG349361
Chlorodibromomethane	mg/l	0.0645	0.0649	0.578	21	129.	L335006-06	WG349361
Chloroethane	mg/l	0.0439	0.0470	6.84	27	87.8	L335006-06	WG349361
Chloroform	mg/l	0.0568	0.0576	1.39	21	114.	L335006-06	WG349361
Chloromethane	mg/l	0.0461	0.0475	3.04	28	92.2	L335006-06	WG349361
cis-1,2-Dichloroethene	mg/l	0.0495	0.0503	1.63	22	99.0	L335006-06	WG349361
cis-1,3-Dichloropropene	mg/l	0.0544	0.0548	0.729	21	109.	L335006-06	WG349361
Di-isopropyl ether	mg/l	0.0521	0.0528	1.22	21	104.	L335006-06	WG349361
Dibromomethane	mg/l	0.0613	0.0622	1.34	20	123.	L335006-06	WG349361
Dichlorodifluoromethane	mg/l	0.0531	0.0593	10.9	26	106.	L335006-06	WG349361
Ethylbenzene	mg/l	0.0481	0.0496	3.15	24	96.2	L335006-06	WG349361
Hexachlorobutadiene	mg/l	0.0503	0.0515	2.29	33	101.	L335006-06	WG349361
Isopropylbenzene	mg/l	0.0505	0.0509	0.804	25	101.	L335006-06	WG349361
Methyl tert-butyl ether	mg/l	0.0601	0.0597	0.578	22	120.	L335006-06	WG349361
Methylene Chloride	mg/l	0.0478	0.0486	1.62	21	95.6	L335006-06	WG349361

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

n-Butylbenzene	mg/l	0.0444	0.0457	2.76	29	88.9	L335006-06	WG349361

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
n-Propylbenzene	mg/l	0.0483	0.0490	1.26	25	96.7	L335006-06	WG349361
Naphthalene	mg/l	0.0455	0.0539	16.9	37	91.0	L335006-06	WG349361
p-Isopropyltoluene	mg/l	0.0491	0.0481	2.04	27	98.1	L335006-06	WG349361
sec-Butylbenzene	mg/l	0.0495	0.0492	0.615	26	99.1	L335006-06	WG349361
Styrene	mg/l	0.0496	0.0497	0.246	23	99.2	L335006-06	WG349361
tert-Butylbenzene	mg/l	0.0523	0.0517	1.00	26	105.	L335006-06	WG349361
Toluene	mg/l	0.0477	0.0496	3.96	22	95.4	L335006-06	WG349361
trans-1,2-Dichloroethene	mg/l	0.0480	0.0507	5.55	23	96.0	L335006-06	WG349361
trans-1,3-Dichloropropene	mg/l	0.0576	0.0577	0.172	22	115.	L335006-06	WG349361
Trichloroethene	mg/l	0.0504	0.0525	4.09	21	101.	L335006-06	WG349361
Trichlorofluoromethane	mg/l	0.0604	0.0657	8.39	24	121.	L335006-06	WG349361
Vinyl chloride	mg/l	0.0449	0.0481	6.85	26	89.9	L335006-06	WG349361
Xylenes, Total	mg/l	0.145	0.146	0.897	23	96.4	L335006-06	WG349361
1,1,1,2-Tetrachloroethane	mg/l	1.03	1.04	0.551	21	103.	L334925-01	WG349407
1,1,1-Trichloroethane	mg/l	1.02	1.05	2.79	23	102.	L334925-01	WG349407
1,1,2,2-Tetrachloroethane	mg/l	1.03	0.995	3.79	22	103.	L334925-01	WG349407
1,1,2-Trichloroethane	mg/l	1.04	1.02	1.43	20	104.	L334925-01	WG349407
1,1-Dichloroethane	mg/l	0.931	0.940	0.957	21	92.1	L334925-01	WG349407
1,1-Dichloroethene	mg/l	0.989	1.04	5.27	23	98.1	L334925-01	WG349407
1,1-Dichloropropene	mg/l	0.937	0.963	2.76	23	92.9	L334925-01	WG349407
1,2,3-Trichlorobenzene	mg/l	0.896	0.884	1.44	33	88.8	L334925-01	WG349407
1,2,3-Trichloropropane	mg/l	1.07	1.03	4.16	23	107.	L334925-01	WG349407
1,2,4-Trichlorobenzene	mg/l	0.928	0.915	1.36	30	91.9	L334925-01	WG349407
1,2,4-Trimethylbenzene	mg/l	1.14	1.16	1.51	27	95.4	L334925-01	WG349407
1,2-Dibromo-3-Chloropropane	mg/l	1.04	1.01	2.99	27	104.	L334925-01	WG349407
1,2-Dibromoethane	mg/l	1.01	0.988	1.77	21	101.	L334925-01	WG349407
1,2-Dichlorobenzene	mg/l	0.927	0.941	1.46	23	92.1	L334925-01	WG349407
1,2-Dichloroethane	mg/l	0.869	0.838	3.69	21	86.6	L334925-01	WG349407
1,2-Dichloropropane	mg/l	0.934	0.938	0.375	20	92.8	L334925-01	WG349407
1,3,5-Trimethylbenzene	mg/l	1.01	1.03	2.19	26	96.1	L334925-01	WG349407
1,3-Dichlorobenzene	mg/l	0.990	0.987	0.374	24	98.2	L334925-01	WG349407
1,3-Dichloropropane	mg/l	0.924	0.912	1.27	20	92.1	L334925-01	WG349407
1,4-Dichlorobenzene	mg/l	0.896	0.911	1.61	23	88.9	L334925-01	WG349407
2,2-Dichloropropane	mg/l	1.24	1.26	1.62	23	120.	L334925-01	WG349407
2-Butanone (MEK)	mg/l	4.96	4.81	3.08	26	99.2	L334925-01	WG349407
2-Chlorotoluene	mg/l	0.962	0.979	1.69	24	93.9	L334925-01	WG349407
4-Chlorotoluene	mg/l	0.942	0.949	0.705	25	93.2	L334925-01	WG349407
4-Methyl-2-pentanone (MIBK)	mg/l	4.60	4.36	5.44	28	92.1	L334925-01	WG349407
Acetone	mg/l	3.65	3.48	4.91	26	73.1	L334925-01	WG349407
Acrolein	mg/l	3.89	3.82	1.66	39	75.5	L334925-01	WG349407
Acrylonitrile	mg/l	4.35	4.11	5.64	24	86.4	L334925-01	WG349407
Benzene	mg/l	1.11	1.13	1.53	21	91.9	L334925-01	WG349407
Bromobenzene	mg/l	0.928	0.923	0.582	23	92.2	L334925-01	WG349407
Bromodichloromethane	mg/l	1.01	1.00	0.683	20	101.	L334925-01	WG349407
Bromoform	mg/l	1.14	1.10	3.40	20	114.	L334925-01	WG349407
Bromomethane	mg/l	1.01	1.11	9.10	35	100.	L334925-01	WG349407
Carbon tetrachloride	mg/l	0.807	0.812	0.697	24	80.7	L334925-01	WG349407
Chlorobenzene	mg/l	0.996	1.02	2.18	22	98.7	L334925-01	WG349407
Chlorodibromomethane	mg/l	1.08	1.06	1.17	21	107.	L334925-01	WG349407
Chloroform	mg/l	0.969	0.970	0.151	21	96.0	L334925-01	WG349407
Chloromethane	mg/l	0.696	0.707	1.61	28	68.7	L334925-01	WG349407
cis-1,2-Dichloroethene	mg/l	0.964	1.00	4.03	22	95.6	L334925-01	WG349407
Di-isopropyl ether	mg/l	0.806	0.773	4.17	21	80.1	L334925-01	WG349407
Dibromomethane	mg/l	0.971	0.953	1.93	20	97.1	L334925-01	WG349407
Dichlorodifluoromethane	mg/l	0.708	0.724	2.24	26	70.8	L334925-01	WG349407
Ethylbenzene	mg/l	1.49	1.55	3.98	24	94.9	L334925-01	WG349407
Hexachlorobutadiene	mg/l	0.974	0.982	0.828	33	96.0	L334925-01	WG349407
Isopropylbenzene	mg/l	1.02	1.06	3.94	25	97.6	L334925-01	WG349407

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

m&p-Xylenes	mg/l	2.82	2.92	3.44	23	82.4	L334925-01	WG349407

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Methyl tert-butyl ether	mg/l	1.17	1.09	7.57	22	117.	L334925-01	WG349407
Methylene Chloride	mg/l	0.900	0.913	1.47	21	89.0	L334925-01	WG349407
n-Butylbenzene	mg/l	0.899	0.939	4.39	29	88.7	L334925-01	WG349407
n-Propylbenzene	mg/l	0.993	1.02	3.05	25	93.5	L334925-01	WG349407
Naphthalene	mg/l	0.952	0.906	4.98	37	92.0	L334925-01	WG349407
o-Xylene	mg/l	1.15	1.18	1.89	23	98.6	L334925-01	WG349407
p-Isopropyltoluene	mg/l	1.00	1.03	2.53	27	98.7	L334925-01	WG349407
sec-Butylbenzene	mg/l	0.988	1.01	2.68	26	97.6	L334925-01	WG349407
Styrene	mg/l	1.00	1.01	0.802	23	99.7	L334925-01	WG349407
tert-Butylbenzene	mg/l	1.00	1.03	3.02	26	99.2	L334925-01	WG349407
Tetrachloroethene	mg/l	0.953	1.01	5.39	24	93.6	L334925-01	WG349407
Toluene	mg/l	1.01	1.04	2.66	22	93.3	L334925-01	WG349407
trans-1,2-Dichloroethene	mg/l	0.943	0.965	2.31	23	93.2	L334925-01	WG349407
Trichloroethene	mg/l	0.999	1.03	3.23	21	98.9	L334925-01	WG349407
Trichlorofluoromethane	mg/l	0.769	0.791	2.88	24	76.6	L334925-01	WG349407
Vinyl chloride	mg/l	0.784	0.804	2.53	26	77.7	L334925-01	WG349407
Tetrachloroethene	mg/l	0.886	0.974	9.46	24	88.6	L334929-03	WG349526
TPH (GC/FID) Low Fraction	mg/kg	14.6	14.2	2.78	20	41.0	L335016-01	WG349540
TPH (GC/FID) High Fraction	ppm	48.7	49.8	2.27	25	81.1	L335011-02	WG349573
1,1,1,2-Tetrachloroethane	mg/l	0.0553	0.0560	1.22	21	111.	L335617-01	WG349600
1,1,1-Trichloroethane	mg/l	0.0569	0.0605	6.11	23	114.	L335617-01	WG349600
1,1,2,2-Tetrachloroethane	mg/l	0.0499	0.0524	5.02	22	99.8	L335617-01	WG349600
1,1,2-Trichloroethane	mg/l	0.0522	0.0536	2.62	20	104.	L335617-01	WG349600
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0477	0.0527	10.1	24	95.3	L335617-01	WG349600
1,1-Dichloroethane	mg/l	0.0549	0.0587	6.77	21	110.	L335617-01	WG349600
1,1-Dichloroethene	mg/l	0.0558	0.0624	11.1	23	112.	L335617-01	WG349600
1,1-Dichloropropene	mg/l	0.0514	0.0573	11.0	23	103.	L335617-01	WG349600
1,2,3-Trichlorobenzene	mg/l	0.0207	0.0362	54.6	33	41.3	L335617-01	WG349600
1,2,3-Trichloropropane	mg/l	0.0536	0.0549	2.35	23	107.	L335617-01	WG349600
1,2,3-Trimethylbenzene	mg/l	0.0484	0.0509	5.08	25	96.8	L335617-01	WG349600
1,2,4-Trichlorobenzene	mg/l	0.0337	0.0416	21.0	30	67.4	L335617-01	WG349600
1,2,4-Trimethylbenzene	mg/l	0.0469	0.0479	2.04	27	93.8	L335617-01	WG349600
1,2-Dibromo-3-Chloropropane	mg/l	0.0495	0.0556	11.5	27	99.0	L335617-01	WG349600
1,2-Dibromoethane	mg/l	0.0527	0.0532	0.866	21	105.	L335617-01	WG349600
1,2-Dichlorobenzene	mg/l	0.0467	0.0488	4.43	23	93.3	L335617-01	WG349600
1,2-Dichloroethane	mg/l	0.0590	0.0613	3.82	21	118.	L335617-01	WG349600
1,2-Dichloropropane	mg/l	0.0538	0.0573	6.25	20	108.	L335617-01	WG349600
1,3,5-Trimethylbenzene	mg/l	0.0478	0.0487	1.92	26	95.5	L335617-01	WG349600
1,3-Dichlorobenzene	mg/l	0.0448	0.0445	0.761	24	89.7	L335617-01	WG349600
1,3-Dichloropropane	mg/l	0.0497	0.0512	3.02	20	99.4	L335617-01	WG349600
1,4-Dichlorobenzene	mg/l	0.0443	0.0460	3.84	23	88.5	L335617-01	WG349600
2,2-Dichloropropane	mg/l	0.0559	0.0598	6.78	23	112.	L335617-01	WG349600
2-Butanone (MEK)	mg/l	0.298	0.305	2.51	26	119.	L335617-01	WG349600
2-Chloroethyl vinyl ether	mg/l	0.250	0.261	4.65	75	99.8	L335617-01	WG349600
2-Chlorotoluene	mg/l	0.0472	0.0481	1.99	24	94.3	L335617-01	WG349600
4-Chlorotoluene	mg/l	0.0454	0.0461	1.45	25	90.8	L335617-01	WG349600
4-Methyl-2-pentanone (MIBK)	mg/l	0.266	0.283	6.15	28	106.	L335617-01	WG349600
Acetone	mg/l	0.307	0.326	5.98	26	123.	L335617-01	WG349600
Acrolein	mg/l	0.274	0.282	2.76	39	110.	L335617-01	WG349600
Acrylonitrile	mg/l	0.277	0.294	5.73	24	111.	L335617-01	WG349600
Benzene	mg/l	0.0510	0.0544	6.48	21	102.	L335617-01	WG349600
Bromobenzene	mg/l	0.0492	0.0501	1.91	23	98.3	L335617-01	WG349600
Bromodichloromethane	mg/l	0.0571	0.0597	4.58	20	114.	L335617-01	WG349600
Bromoform	mg/l	0.0615	0.0612	0.525	20	123.	L335617-01	WG349600
Bromomethane	mg/l	0.0507	0.0541	6.48	35	101.	L335617-01	WG349600

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Carbon tetrachloride	mg/l	0.0585	0.0645	9.63	24	117.	L335617-01	WG349600

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Chlorobenzene	mg/l	0.0486	0.0503	3.43	22	97.2	L335617-01	WG349600
Chlorodibromomethane	mg/l	0.0572	0.0586	2.33	21	114.	L335617-01	WG349600
Chloroethane	mg/l	0.0491	0.0542	9.95	27	98.1	L335617-01	WG349600
Chloroform	mg/l	0.0552	0.0581	5.09	21	110.	L335617-01	WG349600
Chloromethane	mg/l	0.0486	0.0529	8.55	28	97.1	L335617-01	WG349600
cis-1,2-Dichloroethene	mg/l	0.0528	0.0557	5.38	22	106.	L335617-01	WG349600
cis-1,3-Dichloropropene	mg/l	0.0540	0.0563	4.12	21	108.	L335617-01	WG349600
Di-isopropyl ether	mg/l	0.0536	0.0557	3.86	21	107.	L335617-01	WG349600
Dibromomethane	mg/l	0.0583	0.0613	5.04	20	117.	L335617-01	WG349600
Dichlorodifluoromethane	mg/l	0.0445	0.0501	12.0	26	88.9	L335617-01	WG349600
Ethylbenzene	mg/l	0.0471	0.0491	4.21	24	94.1	L335617-01	WG349600
Hexachlorobutadiene	mg/l	0.0434	0.0491	12.3	33	86.8	L335617-01	WG349600
Isopropylbenzene	mg/l	0.0483	0.0510	5.36	25	96.6	L335617-01	WG349600
Methyl tert-butyl ether	mg/l	0.0568	0.0593	4.37	22	114.	L335617-01	WG349600
Methylene Chloride	mg/l	0.0527	0.0558	5.70	21	104.	L335617-01	WG349600
n-Butylbenzene	mg/l	0.0440	0.0474	7.56	29	88.0	L335617-01	WG349600
n-Propylbenzene	mg/l	0.0467	0.0482	3.20	25	93.4	L335617-01	WG349600
Naphthalene	mg/l	0.0325	0.0451	32.4	37	65.1	L335617-01	WG349600
p-Isopropyltoluene	mg/l	0.0468	0.0471	0.635	27	93.6	L335617-01	WG349600
sec-Butylbenzene	mg/l	0.0471	0.0487	3.28	26	94.2	L335617-01	WG349600
Styrene	mg/l	0.0481	0.0499	3.53	23	96.3	L335617-01	WG349600
tert-Butylbenzene	mg/l	0.0489	0.0502	2.72	26	97.8	L335617-01	WG349600
Tetrachloroethene	mg/l	0.0475	0.0518	8.82	24	94.9	L335617-01	WG349600
Toluene	mg/l	0.0499	0.0533	6.60	22	99.8	L335617-01	WG349600
trans-1,2-Dichloroethene	mg/l	0.0537	0.0586	8.73	23	107.	L335617-01	WG349600
trans-1,3-Dichloropropene	mg/l	0.0538	0.0556	3.35	22	108.	L335617-01	WG349600
Trichloroethene	mg/l	0.0515	0.0557	7.84	21	103.	L335617-01	WG349600
Trichlorofluoromethane	mg/l	0.0571	0.0647	12.5	24	114.	L335617-01	WG349600
Vinyl chloride	mg/l	0.0480	0.0535	10.9	26	96.0	L335617-01	WG349600
Xylenes, Total	mg/l	0.141	0.147	4.10	23	94.1	L335617-01	WG349600
1,1,1,2-Tetrachloroethane	mg/kg	19.7	19.8	0.549	31	87.7	L335241-02	WG349770
1,1,1-Trichloroethane	mg/kg	20.5	20.7	1.25	32	91.0	L335241-02	WG349770
1,1,2,2-Tetrachloroethane	mg/kg	21.6	20.6	4.76	33	96.1	L335241-02	WG349770
1,1,2-Trichloroethane	mg/kg	18.8	18.1	3.62	29	83.6	L335241-02	WG349770
1,1-Dichloroethane	mg/kg	21.6	22.2	2.64	31	96.0	L335241-02	WG349770
1,1-Dichloroethene	mg/kg	17.6	18.0	2.25	34	78.0	L335241-02	WG349770
1,1-Dichloropropene	mg/kg	18.6	18.8	0.834	34	82.9	L335241-02	WG349770
1,2,3-Trichlorobenzene	mg/kg	22.2	21.3	4.06	43	98.6	L335241-02	WG349770
1,2,3-Trichloropropane	mg/kg	21.3	20.6	3.26	32	94.7	L335241-02	WG349770
1,2,4-Trichlorobenzene	mg/kg	21.7	21.2	2.22	44	96.5	L335241-02	WG349770
1,2,4-Trimethylbenzene	mg/kg	119.	122.	1.96	41	0.00	L335241-02	WG349770
1,2-Dibromo-3-Chloropropane	mg/kg	21.6	19.5	10.6	35	96.2	L335241-02	WG349770
1,2-Dibromoethane	mg/kg	17.9	17.4	3.05	31	79.5	L335241-02	WG349770
1,2-Dichlorobenzene	mg/kg	19.4	19.3	0.520	35	86.4	L335241-02	WG349770
1,2-Dichloroethane	mg/kg	23.0	22.9	0.728	29	102.	L335241-02	WG349770
1,2-Dichloropropane	mg/kg	20.8	20.5	1.62	30	92.5	L335241-02	WG349770
1,3,5-Trimethylbenzene	mg/kg	86.2	89.7	3.95	39	31.9	L335241-02	WG349770
1,3-Dichlorobenzene	mg/kg	18.0	18.1	0.707	38	80.1	L335241-02	WG349770
1,3-Dichloropropane	mg/kg	18.9	18.8	0.432	29	84.0	L335241-02	WG349770
1,4-Dichlorobenzene	mg/kg	19.1	19.1	0.283	36	84.8	L335241-02	WG349770
2,2-Dichloropropane	mg/kg	21.0	21.6	3.00	32	93.4	L335241-02	WG349770
2-Butanone (MEK)	mg/kg	124.	114.	7.65	37	110.	L335241-02	WG349770
2-Chloroethyl vinyl ether	mg/kg	21.8	21.4	1.53	50	19.3	L335241-02	WG349770
2-Chlorotoluene	mg/kg	26.1	27.1	3.76	37	116.	L335241-02	WG349770
4-Chlorotoluene	mg/kg	18.1	18.5	2.19	38	80.6	L335241-02	WG349770
4-Methyl-2-pentanone (MIBK)	mg/kg	129.	118.	8.67	36	114.	L335241-02	WG349770
Acetone	mg/kg	131.	127.	3.48	34	117.	L335241-02	WG349770
Acrylonitrile	mg/kg	122.	117.	3.63	35	108.	L335241-02	WG349770

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

Benzene	mg/kg	41.4	43.5	5.02	31	72.8	L335241-02	WG349770

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Bromobenzene	mg/kg	25.6	26.2	2.59	39	114.	L335241-02	WG349770
Bromodichloromethane	mg/kg	21.9	20.0	8.83	30	97.3	L335241-02	WG349770
Bromoform	mg/kg	20.3	19.1	6.01	34	90.3	L335241-02	WG349770
Bromomethane	mg/kg	20.1	19.9	1.19	41	89.5	L335241-02	WG349770
Carbon tetrachloride	mg/kg	21.2	21.2	0.315	34	94.1	L335241-02	WG349770
Chlorobenzene	mg/kg	17.4	17.3	0.750	34	77.5	L335241-02	WG349770
Chlorodibromomethane	mg/kg	19.8	19.5	1.14	32	87.8	L335241-02	WG349770
Chloroethane	mg/kg	16.4	16.8	2.55	38	72.8	L335241-02	WG349770
Chloroform	mg/kg	22.9	23.2	1.44	30	102.	L335241-02	WG349770
Chloromethane	mg/kg	13.5	13.7	1.71	35	59.9	L335241-02	WG349770
cis-1,2-Dichloroethene	mg/kg	20.5	20.6	0.225	31	91.3	L335241-02	WG349770
cis-1,3-Dichloropropene	mg/kg	19.9	19.8	0.524	32	88.6	L335241-02	WG349770
Di-isopropyl ether	mg/kg	24.4	24.7	1.11	29	109.	L335241-02	WG349770
Dibromomethane	mg/kg	19.1	18.9	1.39	30	85.0	L335241-02	WG349770
Dichlorodifluoromethane	mg/kg	14.2	14.5	2.55	38	62.9	L335241-02	WG349770
Ethylbenzene	mg/kg	179.	191.	6.83	36	0.00	L335241-02	WG349770
Hexachlorobutadiene	mg/kg	18.4	18.4	0.303	50	81.8	L335241-02	WG349770
Isopropylbenzene	mg/kg	35.1	36.3	3.24	37	67.2	L335241-02	WG349770
Methyl tert-butyl ether	mg/kg	36.0	36.1	0.231	31	107.	L335241-02	WG349770
Methylene Chloride	mg/kg	20.6	20.8	0.997	31	91.4	L335241-02	WG349770
n-Butylbenzene	mg/kg	57.5	60.7	5.41	48	167.	L335241-02	WG349770
n-Propylbenzene	mg/kg	60.0	61.6	2.63	40	31.2	L335241-02	WG349770
Naphthalene	mg/kg	90.8	87.7	3.52	43	128.	L335241-02	WG349770
p-Isopropyltoluene	mg/kg	21.3	21.8	2.55	43	75.5	L335241-02	WG349770
sec-Butylbenzene	mg/kg	27.9	28.7	2.63	43	70.8	L335241-02	WG349770
Styrene	mg/kg	23.4	23.9	2.19	35	104.	L335241-02	WG349770
tert-Butylbenzene	mg/kg	18.2	18.2	0.140	39	81.0	L335241-02	WG349770
Tetrachloroethene	mg/kg	14.1	14.1	0.523	35	62.5	L335241-02	WG349770
Toluene	mg/kg	151.	153.	1.42	32	4.96	L335241-02	WG349770
trans-1,2-Dichloroethene	mg/kg	16.7	16.8	0.534	33	74.4	L335241-02	WG349770
trans-1,3-Dichloropropene	mg/kg	21.0	20.8	1.32	32	93.6	L335241-02	WG349770
Trichloroethene	mg/kg	17.1	17.2	0.610	33	76.0	L335241-02	WG349770
Trichlorofluoromethane	mg/kg	16.4	17.1	4.22	32	73.0	L335241-02	WG349770
Vinyl chloride	mg/kg	15.1	15.4	1.89	36	67.2	L335241-02	WG349770
Xylenes, Total	mg/kg	438.	453.	3.35	36	11.5	L335241-02	WG349770
TPH (GC/FID) Low Fraction	mg/kg	4.09	4.80	15.9	20	70.2	L335348-10	WG349793
Chloroethane	mg/l	0.0766	0.0733	4.48	27	153.	L335011-03	WG349796
Oil & Grease (Hexane Extr)	mg/kg	4300	4400	2.30	20	108.	L335011-04	WG349916

Batch number /Run number / Sample number cross reference

WG348833: R356232: L335011-03
WG348817: R356270: L335011-02 06
WG349168: R356499: L335011-01
WG349180: R356568: L335011-01 03
WG349361: R356685: L335011-05
WG349011: R356717: L335011-02 06
WG349253: R356736: L335011-02 04
WG349254: R356738: L335011-06
WG349407: R356795: L335011-03
WG349526: R356948: L335011-05
WG349600: R357014: L335011-07
WG349524: R357039: L335011-01 03 05
WG349573: R357051: L335011-02 06
WG349540: R357054: L335011-02

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

WG349723: R357093: L335011-05
WG349796: R357116: L335011-03
WG349770: R357171: L335011-04
WG349793: R357202: L335011-06
WG349916: R357252: L335011-04
WG349694: R357503: L335011-01 03

* * Calculations are performed prior to rounding of reported values .

ENVIRONMENTAL
SCIENCE CORP.

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

MACTEC - Wilmington, NC
Kim Charles-Smith
5710 Oleander Drive, Suite 110

Wilmington, NC 28403

Quality Assurance Report
Level II

L335011

March 24, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Environmental Science Corp.
Laboratory Services

SEMI–VOLATILES ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: MACTEC – Wilmington, NC

SAMPLE ID.
L335011–01

Matrix: WATER
Date Collected: 03/06/2008
Date Analyzed: 03/13/2008

ESC Sample NO: L335011–01
Lab File ID: 0313_39
Dilution Factor: 1.25

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds . Therefore, not all TIC's are identified and quantitated using individual standards . TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist . Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard . from the total ion chromatogram . TIC's are identified and quantitated only if the peak area is 10 % or more of that of the nearest internal standard .

Number Of TICs Found: 0

CONCENTRATION UNITS:
mg/l

CAS NO.	COMPOUND	RT	EST. CONC.	QF	QA

Environmental Science Corp.
Laboratory Services

SEMI–VOLATILES ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: MACTEC – Wilmington, NC

SAMPLE ID.
L335011–03

Matrix: WATER
Date Collected: 03/06/2008
Date Analyzed: 03/13/2008

ESC Sample NO: L335011–03
Lab File ID: 0313_40
Dilution Factor: 1.14

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds . Therefore, not all TIC's are identified and quantitated using individual standards . TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist . Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard . from the total ion chromatogram . TIC's are identified and quantitated only if the peak area is 10 % or more of that of the nearest internal standard .

Number Of TICs Found: 1

CONCENTRATION UNITS:
mg/l

CAS NO.	COMPOUND	RT	EST. CONC.	QF	QA
000123–42–2	2–Pentanone, 4–hydroxy–4–methyl–	3.45	0	J	64

Environmental Science Corp.
Laboratory Services

SEMI-VOLATILES ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: MACTEC – Wilmington, NC

SAMPLE ID.
L335011-05

Matrix: WATER
Date Collected: 03/06/2008
Date Analyzed: 03/13/2008

ESC Sample NO: L335011-05
Lab File ID: 0313_41
Dilution Factor: 1.18

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds . Therefore, not all TIC's are identified and quantitated using individual standards . TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist . Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard . from the total ion chromatogram . TIC's are identified and quantitated only if the peak area is 10 % or more of that of the nearest internal standard .

Number Of TICs Found: 1

CONCENTRATION UNITS:
mg/l

CAS NO.	COMPOUND	RT	EST. CONC.	QF	QA
062237-99-4	Decane, 2,2,7-trimethyl-	4.22	0	J	72

EPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name:	MACTEC - Wilmington, NC	Laboratory Name:	Environmental Science Corporation
Project Name:	RSC 1020 North Front Street	NC Certification # (LAB)	375
Site Location:	NC		

	Sample Information and Analytical Results									
	Sample Identification	L335011-01		L335011-03						
	Sample Description	DIESEL UST TMW-3		WASTE OIL TMW-1						
	Sample Matrix	WATER		WATER						
	Date Collected	3/6/08		3/6/08						
	Date Received	3/7/08		3/7/08						
	Date Extracted	N/A		N/A						
	Date Analyzed	3/14/08		3/15/08						
	Dry Weight %	N/A		N/A						
	Dilution Factor	**Result**	**Dil.**	**Result**	**Dil.**	**Result**	**Dil.**	**Result**	**Dil.**	**Result**	**Dil.**
	C9-C18 Aliphatics* in ug/L	190	1.1	240	1						
	C19-C36 Aliphatics* in ug/L	<110	1.1	<100	1						
	C11-C22 Aromatics* in ug/L	<110	1.1	<100	1						
OTP	**Surrogate % Recovery**	71.59%		71.23%							
COD	**Surrogate % Recovery**	47.73%		50.6%							
2FBF	**Fractionation Surrogate % Rec.**	98.86%		99.86%							
2BN	**Fractionation Surrogate % Rec.**	104.55%		90.44%							

* Range results should exclude any surrogates, internal standards, or Target PAH analytes.
** Blank correction has been applied per method guidance.

	C9-C18 Aliphatic	C19-C36 Aliphatic	C11-C22 Aromatic
Percent Recovery - Fortified Blank (Spike)	55.789%	110.01%	100.412%
Relative Percent Difference - Sample Duplicates	36	13	49

Attachment 2

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 3/7/2001

Calibration Ranges and Limits

Range	MDL	ML	RL
C9-C18 Aliphatics	0.009341727 mg/L	0.029706691 mg/L	0.1 mg/L
C19-C36 Aliphatics	0.013788582 mg/L	0.043847692 mg/L	0.1 mg/L
C11-C22 Aromatics	0.004464143 mg/L	0.014195974 mg/L	0.1 mg/L

NOTE: Please include units as appropriate

Method of Quantitation (Circle one) Curve Average Response Factor

Calibration Concentration Levels

Range	Levels	%RSD or CCC
C9-C18 Aliphatics	0.080 mg/L	Coef of Det (r^2) 1.000 Linear Fit
	0.375 mg/L	
	0.750 mg/L	
	6.0 mg/L	
	12.0 mg/L	
C19-C36 Aliphatics	0.055 mg/L	Coef of Det (r^2) 1.000 Linear Fit
	0.275 mg/L	
	0.550 mg/L	
	4.40 mg/L	
	8.0 mg/L	
C11-C22 Aromatics	0.010 mg/L	Coef of Det (r^2) 0.999 Linear Fit
	0.050 mg/L	
	0.100 mg/L	
	0.800 mg/L	
	1.60 mg/L	

NOTE: Please indicate units as appropriate.

Calibration Check Date 5/7/2001

Calibration

Range	Level (in Mg/L)	RPD (in %)	Actual Value (in Mg/L)
C9-C18 Aliphatics	304.257	1.3	300.4
C19-C36 Aliphatics	402.772	4.3	420.5
C11-C22 Aromatics	429.673	1.8	437.5

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit

RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

MACTEC - Wilmington, NC
RSC 1020 North Front Street
NC
L335011-01

VPH (Aliphatics/Aromatics) Laboratory Reporting Form Continued

Client Name:	MACTEC - Wilmington, NC	Laboratory Name:	Environmental Science Corporation
Project Name:	RSC 1020 North Front Street	NC Certification # (LAB)	375
Site Location:	NC		

Sample Information and Analytical Results										
Sample Identification	L335011-01		L335011-03							
Sample Description	DIESEL UST TMW-3		WASTE OIL TMW-1							
Sample Matrix	WATER		WATER							
Collection Option (for soil)*	N/A		N/A							
Date Collected	3/6/08		3/6/08							
Date Received	3/7/08		3/7/08							
Date Extracted	N/A		N/A							
Date Analyzed	3/11/08		3/11/08							
Dry Weight %	N/A		N/A							
Dilution Factor	**Result**	**Dil.**	**Result**	**Dil.**	**Result**	**Dil.**	**Result**	**Dil.**	**Result**	**Dil.**
C5-C8 Aliphatics* in ug/L	<100	1	<100	1						
C9-C12 Aliphatics* in ug/L	<100	1	<100	1						
C9-C10 Aromatics* in ug/L	<100	1	<100	1						
Surrogate % Recovery - FID	100.28%		100.46%							
Surrogate % Recovery - PID	89.43%		89.35%							

* Option 1=Established fill line on vial Option 2=Sampling Device (indicate brand, e.g. EnCore) Option 3=Field weight of soil.
** Range results should exclude any surrogates, internal standards, or Target PAH analytes.

	C5-C8 Aliphatic	C9-C12 Aliphatic	C9-C10 Aromatic
Percent Recovery - Fortified Blank (Spike) - PID			97.38%
Relative Percent Difference - PID Duplicate			17.57
Percent Recovery - Fortified Blank (Spike) - FID	116.04%	98.83%	
Relative Percent Difference - FID Duplicate	21.21	15.34	

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 2/22/2008

Calibration Ranges and Limits

Range	MDL	ML	RL
C5-C8 Aliphatics	0.15mg/L	1.02 mg/L	0.1 mg/L
C9-C12 Aliphatics	0.11mg/L	1.01 mg/L	0.1 mg/L
C9-C10 Aromatics	0.1mg/L	1.003 mg/L	0.1 mg/L

NOTE: Please include units as appropriate

Method of Quantitation (Circle one) Curve Average Response Factor

Calibration Concentration Levels

Range	Levels	%RSD or CCC
C5-C8 Aliphatics	0.15 mg/L	Coef of Det (r^2) 0.994 Linear Fit
	0.75 mg/L	
	1.5 mg/L	
	3.25 mg/L	
	7.5 mg/L	
C9-C12 Aliphatics	0.11 mg/L	Coef of Det (r^2) 12.2 RSD
	0.55 mg/L	
	1.1 mg/L	
	2.75 mg/L	
	5.5 mg/L	
C9-C10 Aromatics	0.1 mg/L	Coef of Det (r^2) 13.7 RSD
	0.2 mg/L	
	0.5 mg/L	
	1.0 mg/L	
	1.5 mg/L	

NOTE: Please indicate units as appropriate.

Calibration Check Date 1/9/2007

Calibration

Range	Level (in Mg/L)	RPD (in %)	Actual Value (in Mg/L)
C5-C8 Aliphatics	.70	21.7	.870
C9-C12 Aliphatics	0.55	1.1	.544
C9-C10 Aromatics	0.1	3	.097

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit

RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

MACTEC - Wilmington, NC
RSC 1020 North Front Street
NC
L335011-01

MACTEC - Wilmington, NC

5710 Oleander Drive. Suite 110
Wilmington,NC 28403

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 1 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Kim Charles-Smith
Email: KCharles@MACTEC.com
Project Description: RSC 1020 North Front Street
City/State Collected: Wilmington NC
Phone: (910) 452-1185
FAX: (910) 791-1338
Client Project #: 6550-08-0476 Task 01
Lab Project #: LAWENGWN-RSC 1020
Collected by (print): Bill Mabie
Site/Facility ID#:
P.O.#:
Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ___Yes
FAX? ___No ___Yes

Acctnum: LAWENGWN (lab use only)
Template/Prelogin: T49059/ P236084
Cooler #: 2/27/08 RCE
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Cr, Pb 2ozClr-NoPres	Cr, Pb w/ 3030C prep 500mlHDPE-HNO3	DRO 4ozClr-NoPres	EPHNC 1L-Amb-Add HCl	GRO (MeOH) 40mlAmb/MeOH15ml/Syr	OGHEX 1L-Clr-Add HCl	OGHEX 4ozClr-NoPres	SV625TIC 1L-Amb-NoPres	Remarks/Contaminant	Sample # (lab only)
DIESEL UST TMW-3	Grab	GW	—	03/06/08	1530	8				X				X		L335011-01
FORMER WASTE OIL UST SB-1A	Grab	SS	5'-6'	03/06/08	1100	5	X		X		X					02
FORMER WASTE OIL UST TMW-1	Grab	GW	—	03/06/08	1305	9		X		X				X		03
FORMER WASH AREA SB-2A	Grab	SS	6'-8'	03/06/08	1400	6							X			04
FORMER WASH AREA TMW-2	Grab	GW	—	03/06/08	1430	5						X		X		05
Former Waste OIL UST SB-1B	Grab	14'-16'	SS	03/06/08	1125	6	X		X		X					06
Trip Blank (TB)																07

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

9446 7881 9315
9446 7881 9304

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	03/06/08	1705			ok
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4° Bottles Received: 39+2 TB	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/7/8 Time: 10:00	pH Checked: <2 NCF:

MACTEC - Wilmington, NC

5710 Oleander Drive. Suite 110
Wilmington,NC 28403

Alternate billing information:

Chain of Custody
Page 2 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Kim Charles-Smith
Email: KCharles@MACTEC.Com

Project Description: RSC 1020 North Front Street
City/State Collected: Wilmington NC

Phone: (910) 452-1185
FAX: (910) 791-1338

Client Project #: TasK01 6550-08-0476
Lab Project #: LAWENGWN-RSC 1020

Collected by (print): Bill Mabie
Site/Facility ID#:
P.O.#:

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? __No __Yes
FAX? __No __Yes

Acctnum: LAWENGWN (lab use only)
Template/Prelogin: T49059/ P236084
Cooler #: 2/27/08 RL
Shipped Via: FedEX Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV8081/8082 4ozClr-NoPres	Screen for GRO 2ozClr-NoPres	Screen for V8260 2ozClr-NoPres	TS 2ozClr-NoPres	V602 40mlAmb-HCl	V6210 40mlAmb-HCl	V8260 (MeOH) 40ml/NaHSO4/Sr/MeOH	V8260 40ml/NaHSO4/Sr/MeOH	Remarks/Contaminant	Sample # (lab only)
DIESEL UST TMW-3	Grab	GW	—	03/06/08	1530	8					X					L335011-01
FORMER WASTE OIL UST SB-1A	Grab	SS	5'-6'	03/06/08	1100	5	X	X		X						02
FORMER WASTE OIL UST TMW-1	Grab	GW	—	03/06/08	1305	9						X				03
FORMER WASH AREA SB-2A	Grab	SS	6'-8'	03/06/08	1400	6			X	X			X	X		04
FORMER WASH AREA TMW-2	Grab	GW	—	03/06/08	1430	5										05
Former Waste OIL UST SB-1B	Grab	SS	14'-16	03/06/08	1125	6	X	X		X						06

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: ok (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4° Bottles Received: 39+2-TB	COC Seal Intact: ✓ Y ___ N ___ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/7/8 Time: 10:00	pH Checked: <2 NCF:

MACTEC - Wilmington, NC

5710 Oleander Drive. Suite 110
Wilmington,NC 28403

Alternate billing information:

Chain of Custody
Page 3 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Kim Charles-Smith
Email: KCharles@MACTEC.com
Project Description: RSC 1020 North Front Street
City/State Collected: Wilmington NC
Phone: (910) 452-1185
FAX: (910) 791-1338
Client Project #: Task01 6550-08-0476
Lab Project #: LAWENGWN-RSC 1020
Collected by (print): Bill Mabie
Site/Facility ID#:
P.O.#:
Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? __No __Yes
FAX? __No __Yes

Acctnum: LAWENGWN (lab use only)
Template/Prelogin: T49059/ P236084
Cooler #: 2/27/08 RW
Shipped Via: FedEX Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	V8260 40mlAmb-HCl	VPHNC 40mlAmb HCl						Remarks/Contaminant	Sample # (lab only)
DIESEL UST TMW-3	Grab	GW	—	03/06/08	1530	8		X							L335011-01
FORMER WASTE OIL UST	—	SS	—	—	—	6									02
FORMER WASTE OIL UST TMW-1	Grab	GW	—	03/06/08	1305	9		X							03
FORMER WASH AREA	—	SS	—	—	—	6									04
FORMER WASH AREA TMW-2	Grab	GW	—	03/06/08	1430	5	X								05

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
[signature]	03/06/08	1705			OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4° Bottles Received: 39+2-TB	COC Seal Intact: ✓ Y ___ N ___ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/7/8 Time: 10:00	pH Checked: <2 NCF:

SITE-SPECIFIC HEALTH AND SAFETY PLAN

MACTEC ENGINEERING AND CONSULTING, INC.
5710 Oleander Drive, Suite 110
Wilmington, North Carolina 28403
910-452-1185

HEALTH AND SAFETY PLAN

RSC
1020 North Front Street, Wilmington, North Carolina
MACTEC Project No. 6550-08-0476

REVIEW AND APPROVAL

Project Manger J. Chris Pruneau
J. Chris Pruneau

Field Safety Coordinator Kim Charles-Smith
Kim Charles-Smith

Principal Hydrogeoligist J. Chris Pruneau
J. Chris Pruneau

DATE OF PLAN PREPARATION **DATE OF PLANNED FIELD ACTIVITIES**
03-06-08

MEDICAL SURVEILLANCE

All MACTEC field personnel participate in the MACTEC medical monitoring program.

EMERGENCY PHONE NUMBERS (Site area is serviced by 911 System)

HOSPITAL: (910) 343-7000 (Emergency) New Hanover Regional Medical Center (See attached map)
FIRE: 911 (Emergency)
POLICE: 911 (Emergency)

EMERGENCY PROCEDURES

In event of overt personnel exposure (skin contact, inhalation, ingestion):

Skin - remove contaminated clothing, wash with soap and water

Inhalation - remove to fresh air

Eye Contact - flush with eye wash or water - get medial help

Ingestion - get medical help if indicated

In event of personnel injury:
Administer first aid if needed. Medical emergencies take precedence over decontamination procedures. Know route to nearest medical facility. See attached map.

In event of potential or actual fire or explosion:

Do not fight fire. Contact Fire Department and/or client company officials as appropriate. Evacuate if necessary to "clean" location. Move perpendicular to the wind direction. Check wind direction indicator if visible.

SITE INFORMATION

FLAMMABLE MATERIAL (known)

Contaminant	OSHA PEL	Personal Protection
Gasoline	None	Skin: Prevent skin contact Eyes: Prevent eye contact Inhalation: Avoid inhaling vapors Ingestion: Medical attention immediately
Waste Oil	None	Same
Diesel	None	Same

HAZARD ASSESSMENT

The area of work is located in an operating equipment rental business. Workers shall wear orange safety vest to insure they are visible at all times.

Underground utilities include power and natural gas. Therefore, utilities were located prior to beginning subsurface work at the site. In addition, care should be taken during boring advancement at each location.

Measures taken to avoid direct contact with potentially contaminated soils and/or ground-water include wearing vinyl gloves, leather boots, and safety glasses. NO SMOKING OR EATING IN AREA OF WORK.

VARIABILITY AMONG INDIVIDUALS
Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized. EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure) High vapor concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

PREVENTATIVE MEASURES

VENTILATION : Make sure ventilation is sufficient to prevent a buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.
RESPIRATORY PROTECTION : Respiratory protection is not necessary in well ventilated areas, however if large quantities of vapors are inhaled respiratory support may be necessary.
PROTECTIVE GLOVES : Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.
EYE PROTECTION : Safety glasses must be worn at all times.
PERSONAL HYGIENE : Minimize breathing vapor. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period with soap and water.

FIRST AID

VAPOR EXPOSURE: Remove from exposure area to fresh air immediately. If breathing has stopped, give artificial respiration. Maintain airway and blood pressure and administer oxygen if available. Keep affected person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

SKIN EXPOSURE: Remove contaminated clothing and shoes immediately. Wash effected area with soap or mild detergent and large amounts of water until no evidence of chemical remains.

LOCATION OF SITE "CLEAN AREA" AND DECONTAMINATION STATION

To be determined at the site by the Field Safety Coordinator. Drilling equipment will be decontaminated prior to arrival at site. The sampling device will be decontaminated after completion of project or before leaving the site.

WORK PROCEDURES

PLANNED FIELD ACTIVITIES

- Advance approximately three soil borings to a depth of approximately 20 feet below ground for the collection of soil and water samples. The borings will be advanced using Geoprobe® direct push technology. Samples will be placed in laboratory containers and submitted for laboratory analysis.

SITE MONITORING PROCEDURES

Field Safety Coordinator will be on-site during planned field activities. Direct contact with soil and groundwater will be avoided.

CLOTHING AND PROTECTIVE GEAR REQUIRED

Required at work site: Boots, rubber gloves, protective eye wear, and hard hats. Gloves are required during soil drilling and sampling.

To be readily available on Site:

Half face respirator with volatile organic air filter cartridges.

DECONTAMINATION PROCEDURES

Drilling equipment and tools will be decontaminated on the property.

DISPOSAL PROCEDURES

No investigation derived waste will be generated during sampling activities.

WORK PRECAUTIONS

1. Prior to any employee or subcontractor personnel beginning work on the project, the Field Safety Coordinator shall brief the employee on the contents of this plan.
2. No eating, drinking, smoking or putting hands in mouth while in the area of drilling or sampling.
3. Wear vinyl gloves while performing the described fieldwork.
4. Wash all exposed skin areas with soap and water before departing from the site.
5. Use safe and legal procedures for sample storage and shipment.

PERSONNEL POTENTIALLY EXPOSED TO NON-HAZARDOUS MATERIALS

Personnel Authorized to Enter Site

1. Kim Charles-Smith
2. Bill Mabie
3. Chris Pruneau
4.
5.
6.

Other Personnel Assigned to Handle Materials from the Site (i.e. analyze soil samples)

1. Environmental Science Corporation (ESC)
2.
3.

FIELD SAFETY COORDINATOR'S SUMMARY

(To be completed by Field Safety Coordinator after completion of field work, and returned to Health and Safety Officer.)

During the work and covered by the Safety Plan, there were:

a. No violations of the Safety Plan provisions and no obvious contamination of MACTEC employees or subcontractors.

b. The following violations of the Safety Plan provisions or obvious contamination of MACTEC personnel or subcontractors. (Give details of who, when, type of contamination, circumstances, first aid or medical assistance.)

_____

_____

_____

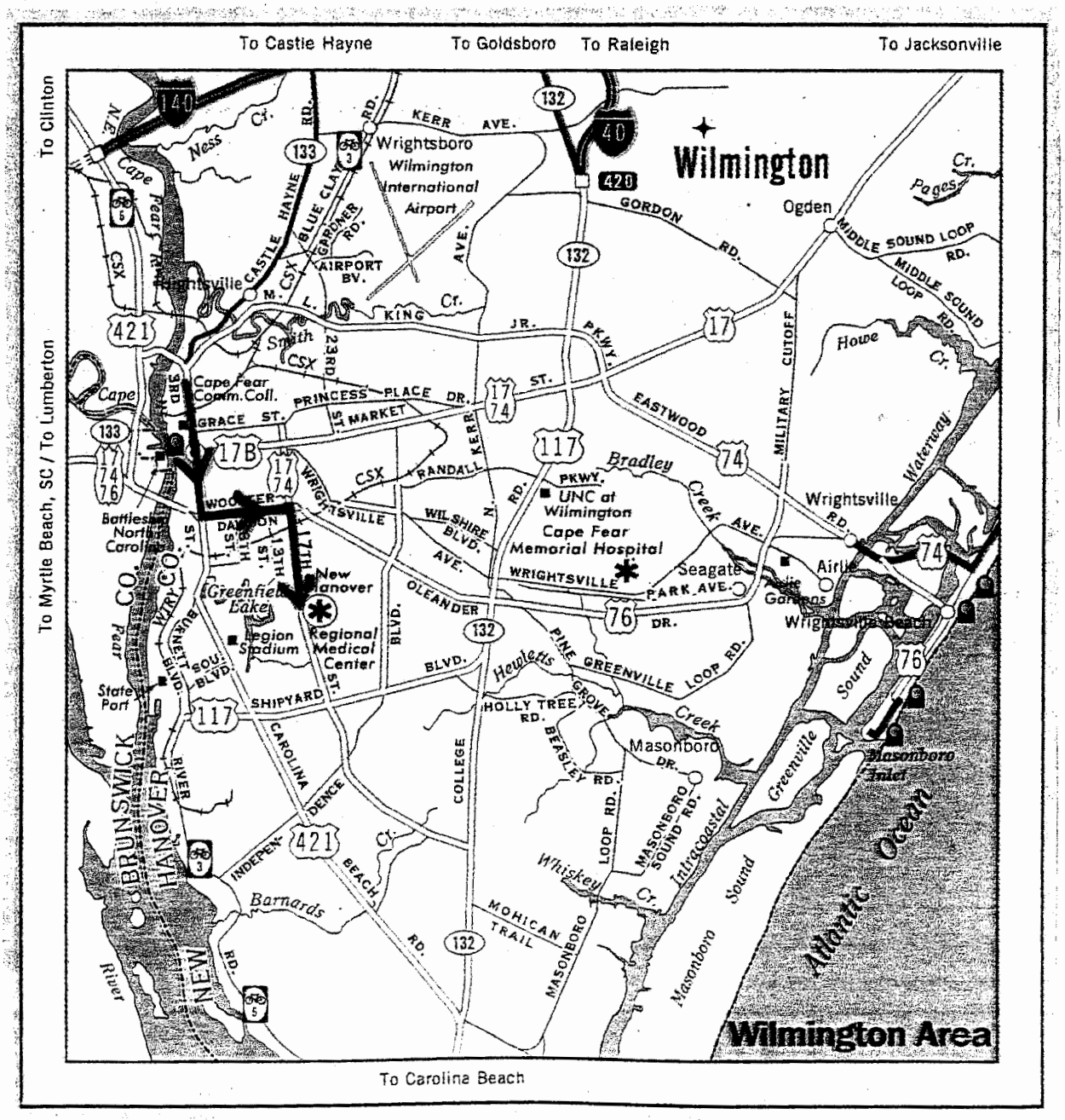
_____

_____

Signature Kristi Chrystal Date 03/07/08
Field Safety Coordinator

ALL ACCIDENTS AND INCIDENTS CAUSING POTENTIAL EXPOSURE TO HAZARDOUS MATERIALS MUST BE REPORTED AS SOON AS POSSIBLE TO:

1) HEALTH AND SAFETY OFFICER, or
2) CHIEF ENGINEER, or
3) BRANCH MANAGER

DIRECTIONS TO NEW HANOVER REGIONAL MEDICAL CENTER FROM RSC SITE 1020 NORTH FRONT STREET

- Go northeast on N Front St toward Davis St
- Turn right on Davis St
- Stay straight to go onto N 3rd St
- Turn left on Dawson St
- Turn right on S 16th St
- S 16th St becomes S 17th St
- End at 2212 S 17th Street New Hanover Regional Medical Center