

January 19, 2005

Mr. Greg Smith
North Carolina Department of Transportation
Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Reference: Preliminary Site Assessment
Smith Property (Parcel #34)
601 Brevard Road
Asheville, Buncombe County, North Carolina
NCDOT Project U-3601
WBS Element 34958.1.1
Earth Tech Project No. 81930

Dear Mr. Smith:

Telephone

Earth Tech of North Carolina, Inc., (Earth Tech) has completed the Preliminary Site Assessment conducted at the above-referenced property. The work was performed in accordance with the Technical and Cost proposal dated November 22, 2004, and the North Carolina Department of Transportation's (NCDOT's) Notice to Proceed dated November 24, 2004. Activities associated with the assessment consisted of reviewing geophysical data, collecting soil samples for laboratory analysis and reviewing applicable North Carolina Department of Environment and Natural Resources (NCDENR) records. The purpose of this report is to document the field activities, present the laboratory analyses, and provide recommendations regarding the property.

919.854.6200

Facsimile

919.854.6259

Location and Description

The Charles Smith Property (Parcel #34) is located at 601 Brevard Road (NC 191) in Asheville, North Carolina. The property is situated on the west side of Brevard Road approximately 0.1 miles north of the intersection of Brevard Road and Pond Road (SR 3431) (Figure 1). Based on information supplied by the NCDOT and the site visit, Earth Tech understands that the site is a former gas station (Homer's Exxon) that, as of the date of this report, houses The Tire Station. Four USTs reportedly were removed from the site in 1998 and soil contamination was identified. The incident was closed in 1999. The property consists of a block-frame building with a former oil-changing pit located on the north side of the building (Figure 2). The pit was full of trash, and material from unsecured 55-gallon drums has leaked into the pit. The proposed right-of-way appears to affect the building and the former oil changing pit. Because of the presence of potential contamination from the former USTs and oil changing pit, a Preliminary Site Assessment was requested to evaluate the soils within the proposed right-of-way.

Earth Tech reviewed the North Carolina Department of Environment and Natural Resources (NCDENR) Incident Management database and Incident Number 19970 was found for this location. According to the database, the facility name was Homer's Exxon at 604 Brevard



A Tyco Infrastructure Services Company

Road. This address is likely for the Subject property in that no development has been conducted across the road where 604 Brevard Road should be located. The available information indicated that the incident was the result of soil contamination detected during UST removal in 1998 and that all contaminated soil had been removed.

Earth Tech also reviewed the UST registration database to obtain UST ownership information. According to the database, the USTs on the property were operated under Facility Number 0-004214, but the information indicates that the USTs have been permanently closed. The operator and owner of the tanks are listed as follows:

<u>Owner</u>	<u>Operator</u>
Homer Smith's Exxon 601 Brevard Road Asheville, North Carolina 28806	Homer Smith's Exxon 601 Brevard Road Asheville, North Carolina 28806

Geophysical Survey

Prior to Earth Tech's mobilization to the site, Pyramid Environmental conducted a geophysical survey to evaluate if USTs were present in the proposed right-of-way. The geophysical survey consisted of an electromagnetic survey using a Geonics EM61 time-domain electromagnetic induction meter to locate buried metallic objects, specifically USTs. A survey grid was laid out at the property with the X-axis oriented approximately parallel to Brevard Road and the Y-axis oriented approximately perpendicular to Brevard Road. The grid was located to cover all accessible portions of the property. The survey lines were spaced 5 feet apart. Magnetic data was collected continuously along each survey line with a data logger. After collection, the data was reviewed in the field with graphical computer software. Following the electromagnetic survey, a ground penetrating radar (GPR) survey was conducted to further evaluate any anomalies.

Two anomalies were observed at the Smith Property. One anomaly (Anomaly A) was located near the southeast corner of the building and was interpreted to represent a utility junction box. Anomaly B was near a utility pole on the north side of the property. The electromagnetic and GPR signatures of this anomaly suggest the presence of underground utilities. Based on the data, no USTs are present within the proposed right-of-way at the site. A detailed report of findings and interpretations is presented in Attachment A.

Site Assessment Activities

On the basis of the geophysical survey and the indication that no USTs were present within the proposed right-of-way, the NCDOT directed Earth Tech to focus our assessment on the former oil changing pit on the north side of the building. On December 15, 2004, Earth Tech mobilized to the site to advance two borings in and around the former oil changing pit with a hand auger. Hand auger boring HA-1 was located within the oil changing pit, but close to

the building where the fill material over the pit was at its thinnest (Figure 2, Attachment B). Initially, the boring encountered a sand/clay fill material to a depth of about one foot. Below the fill material was a dark gray to black, oil-stained clay with pieces of cardboard, rags, and other debris throughout the sample. A soil sample was collected from this material. Hand auger boring HA-2 was located outside the oil change pit to evaluate background conditions. This boring was advanced to a depth of one foot and a sample was collected. No discoloration, staining, or odors were noted in the soil from this boring. Each of these soil samples was submitted to Prism Laboratories, Inc., in Charlotte, North Carolina, using standard chain-of-custody procedures. The laboratory analyzed the soil samples for volatile organic compounds using EPA Method 8260 and semivolatile organic compounds using EPA Method 8270.

Analytical Results

Based on the laboratory reports, summarized in Table 1 and presented in Attachment C, numerous volatile and semivolatile organic compounds were detected in the soil sample from hand auger boring HA-1. The majority of these compounds were associated with petroleum hydrocarbons, but acetone and trichloroethene were detected as well. The analytical results of the soil sample from hand auger boring HA-2 indicated the presence of acetone. The rules regarding assessment and cleanup of surface spills, such as those that occur in oil changing pits, are under the NCDENR Division of Water Quality, Aquifer Protection Section (formerly Groundwater Section) guidance. According to the NCDENR "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater," dated July 2000, action levels for most petroleum related compounds, acetone, and trichloroethene have been established. None of the soil samples contained compounds at concentrations above the applicable action level.

Conclusions and Recommendations

A Preliminary Site Assessment was conducted to evaluate the proposed right-of-way at the Charles Smith Property (Parcel #34) located at 601 Brevard Road in Asheville, Buncombe County, North Carolina. A geophysical survey suggested that no USTs were present within the proposed right-of-way at the site. Based on the geophysical report, only the oil changing pit was evaluated with respect to potential soil contamination. Two hand auger borings were advanced at the site, one within the former oil changing pit and one outside the pit. The laboratory reports of the two soil samples collected from the hand auger borings indicated that numerous volatile and semivolatile organic compounds were present in the soil sample from the boring located within the former oil changing pit. One compound was detected in the soil sample from the boring located outside the former oil changing pit. Based on established action levels, no compounds were present at concentrations above their respective action levels.

Mr. Greg Smith
January 19, 2005
Page 4

Although no target compounds were detected above the established action levels, Earth Tech recommends that the NCDOT exercise caution in handling and disposing of materials within the former oil changing pit. The materials observed in the hand auger boring are indicative of questionable material handling procedures by the property's past occupants. While no compounds were detected above an action level, the Aquifer Protection (Groundwater) Section guidelines require that all detections be reported. As a result, a copy of this report should be submitted to the Division of Water Quality, Aquifer Protection Section, in the Asheville Regional Office. If you have any questions, please contact me at (919)854-6238.

Sincerely,



Michael W. Branson, P.G.
Project Manager



Attachments

c: Project File

TABLE 1

**FIELD SCREENING AND ANALYTICAL RESULTS
SMITH PROPERTY (PARCEL #34)
ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA
NCDOT PROJECT NO. U-3601
WBS ELEMENT 34958.1.1
EARTH TECH PROJECT NO. 81004**

LOCATION	DEPTH (ft)	SAMPLE ID	ANALYTICAL RESULTS (mg/kg)	ACTION LEVEL (mg/kg)
HA-1	1 - 2	HA-1	1,2,4-Trimethylbenzene (0.022)	8
			1,3,5-Trimethylbenzene (0.020)	7
			Acetone (0.120)	2.81
			cis-1,2-Dichloroethene (.067)	0.35
			Xylenes (.0135)	5
			Naphthalene - 8260 (0.032)	0.58
			p-Isopropyltoluene (0.039)	NE
			Tetrachloroethene (0.0062 ^J)	0.0074
			Toluene (0.0052 ^J)	7
			2-Methylnaphthalene (0.290 ^J)	3
			Naphthalene - 8270 (0.120 ^J)	0.58
Phenanthrene (0.130 ^J)	60			
Pyrene (0.540)	286			
HA-2	0 - 1	HA-2	Acetone (0.040)	2.81
			8270 (All compounds BRL)	NA

8260 - Volatile organic analysis using EPA Method 8260.

8270 - Semivolatile organic analysis using EPA Method 8270.

NA - Not applicable.

NE - Not established.

J - Estimated concentration.

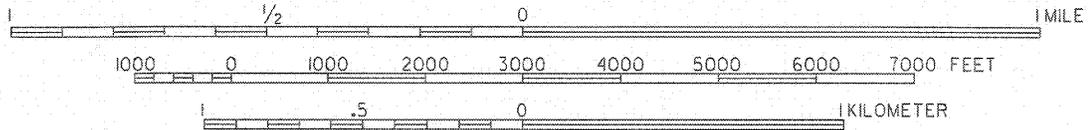
BRL - Below reporting limit.

mg/kg - milligrams per kilogram.

FIGURES



SCALE 1:24,000



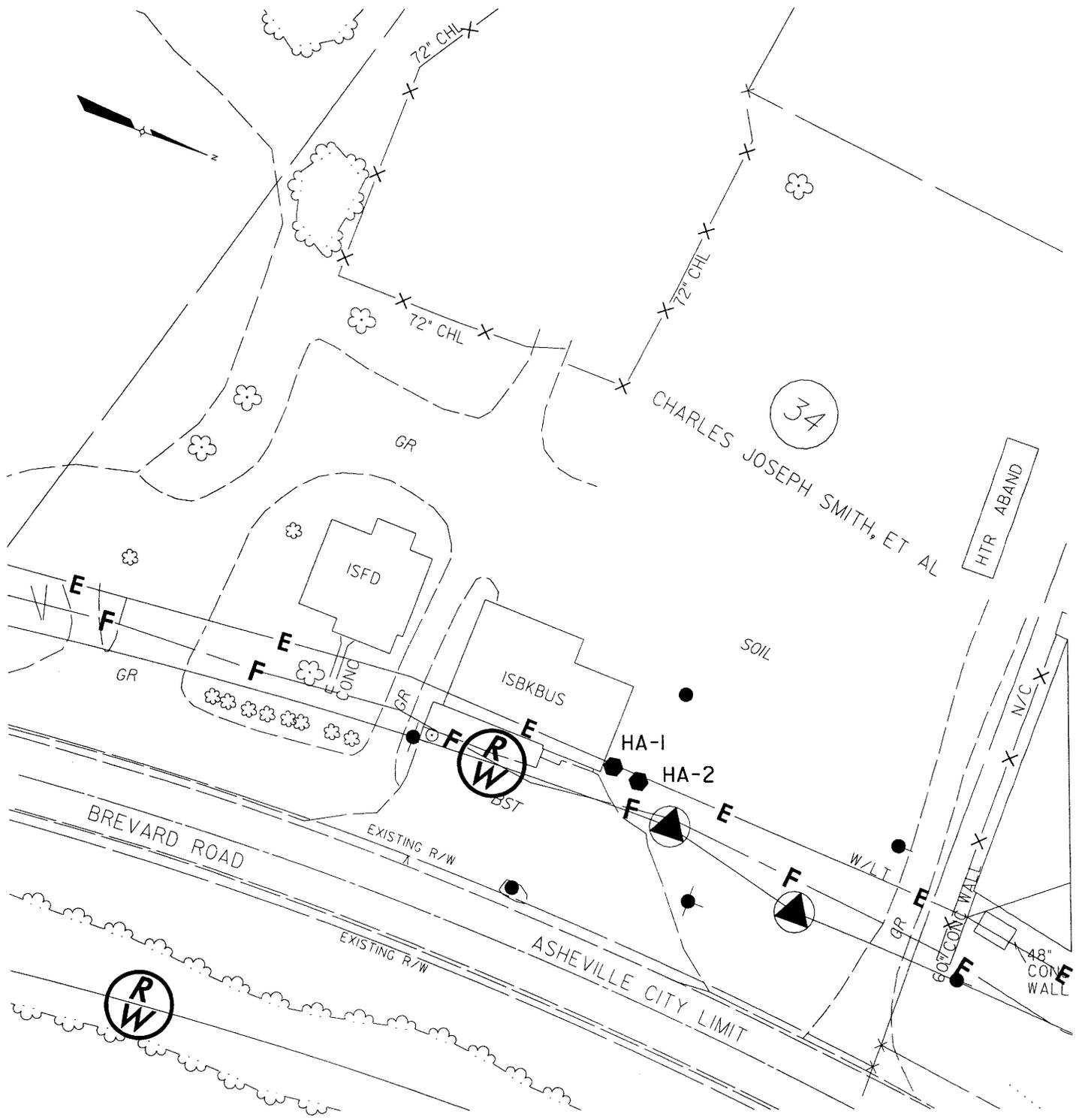
SOURCE: U.S. GEOLOGICAL SURVEY 7.5 MIN QUADRANGLE: ASHEVILLE, NC (REV 1991)



FIGURE I
VICINITY MAP
SMITH PROPERTY (PARCEL #34)
ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA

DECEMBER 2004

R1930



LEGEND

- HA-1
- SOIL SAMPLE LOCATION AND IDENTIFICATION

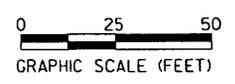


FIGURE 2
SITE MAP
 SMITH PROPERTY (PARCEL #34)
 ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA

DECEMBER 2004

81930

c:\81930\U3601\sheet8A.dgn 01/18/2005 01:09:54 PM

ATTACHMENT A

GEOPHYSICAL INVESTIGATION REPORT

EM-61 & GPR SURVEY

Parcel 34
601 Brevard Rd., Asheville, NC

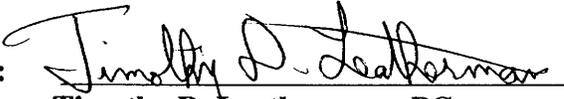
January 12, 2005

Report prepared for: **Mike Branson**
EarthTech, Inc.
701 Corporate Center Drive, Suite 475
Raleigh, North Carolina 27607

Prepared by:


G. Van Ness Burbach, PhD, PG

Reviewed by:


Timothy D. Leatherman, PG

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700 NORTH EUGENE ST.
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GEOPHYSICAL INVESTIGATION REPORT

EM-61 & GPR SURVEY

Parcel 34 - 601 Brevard Rd., Asheville, NC

1.0 INTRODUCTION

On December 1-2, 2004, Pyramid Environmental & Engineering, P.C. (Pyramid) performed a geophysical survey on a portion of the property identified as Parcel 34, located at 601 Brevard Rd. in Asheville, North Carolina. The primary instruments used for the survey were a Geonics EM-61 time-domain electromagnetic induction metal detector and a GSSI SIR-2000 ground-penetrating radar (GPR) system with a 400 MHz antenna. The purpose of this investigation was to locate possible underground storage tanks on the site.

The survey area was approximately 360 feet long and 50-60 feet wide and included the area within the expanded DOT construction easement. The property contains two buildings: one is a former service station which now houses The Tire Station, a retail automotive tire business; the other is a house that is now used for a commercial business. There were also two large aluminum carports, a few vehicles, and some other obstacles that had to be worked around for the survey. The ground surface in front of The Tire Station building was mostly old asphalt paving with a small area of concrete in front of the service bays. The area in front of the house was grass except for the asphalt-paved drives and an area of gravel near the road. The area north of The Tire Station was mostly unpaved dirt or gravel. The important physical features of this site that may have affected the acquisition of data are shown in **Figure 1**.

2.0 GEOPHYSICAL METHODS

2.1 EM-61

The first geophysical method chosen for this survey was time-domain electromagnetic induction (EM) using a Geonics EM-61 high sensitivity, high resolution EM metal detector. The EM-61 generates a powerful primary electromagnetic field pulse that is repeated 150 times per second. The EM pulse generates secondary electromagnetic eddy currents in nearby conductive objects (e.g.- metal). The eddy currents decay with time after the primary pulse is over, and can be detected by the EM-61's antennae. The EM-61 has two one-meter square coil antennae, one mounted above the other.

The EM-61 can detect a metal object the size of a 55-gallon drum buried at depths up to 3 meters under typical site conditions. It can detect either ferrous or non-ferrous metal objects, and the response is practically independent of the electrical conductivity of the ground. The two antennae allow the EM-61 to discriminate against objects that are not directly below the antennae, allowing accurate metal detection in the subsurface within less than two meters of cars, fences, or other above ground metal objects. The

differential between the two antennae's responses can be used to estimate the depth of a metal object.

For this survey, the EM-61 was operated in the "Wheel Mode". In this mode, the EM-61 antennae are mounted on wheels for easy and regular movement along a line. Measurements are triggered by a relay on the wheel so the data can be recorded at regular intervals and recorded with the measured distance along the line. The data and line parameters (such as line number, direction, and increment) are recorded in the EM-61's datalogger, and can be downloaded to a personal computer for review, printout and analysis.

2.2 GPR

Ground penetrating radar (GPR) uses high-frequency radio waves radiated downward into the ground by a transmitting antenna. As the radiated energy is reflected back by objects or interfaces in the subsurface, the receiving antenna detects it. As the antennae are moved across the ground surface, the instrument records a continuous profile of the subsurface. The depth of penetration is highly site-specific, being dependent upon the properties of the site's soil and/or rock materials and the frequency of the antenna, and can range from 1 to 9 meters (3-30 feet). A radar profile will show interfaces between soil and/or rock layers having sufficiently different electrical properties, as well as objects such as buried drums, pipelines, or tanks.

The instrument used in this survey was a GSSI SIR-2000 ground-penetrating radar recording system with a 400 MHz antenna. The transmitting and receiving antennae are located together in a single unit for smooth movement over the ground. The data was recorded with high-pass and low-pass filters set at 35 MHz and 565 MHz, respectively. The data were recorded with positive polarity at 512 samples per scan and 8 bits resolution. The full-scale range was set at 100 ns (nanoseconds). The data was collected in continuous mode with a maximum scan rate of 64 scans per second using fiducial markers to accurately locate the data along each line.

3.0 SURVEY LAYOUT AND DATA ACQUISITION

3.1 EM-61

Pyramid laid out a survey grid on the subject site for the collection of the geophysical data. The grid was laid out with the X-axis parallel to Brevard Road, starting at the south end of the property and increasing toward the north. The X-axis was not perfectly linear, rather it followed the curvature of the road. The Y-axis was perpendicular to Brevard Road with zero at the white line on the road and increasing toward the west. The grid is shown on the site base map in **Figure 1**. Units on the grid axes are in feet.

The main survey lines for the EM-61 were oriented parallel to the X-axis (approximately north-south) with a spacing of 5 feet between lines. A cross line running parallel to the Y-axis was collected over an observed anomaly at X=150'. The survey data, including the response from both the top and bottom antennae on the EM-61, and the differential

between the two antennae, were recorded in the EM-61's portable data-logger and later downloaded onto a computer. The data were adjusted to accommodate problems in the field (such as starting and stopping to go around obstructions), and then exported to an (X,Y,Z) file to be gridded and contoured using Surfer. A surfer plot showing the EM-61 data (response of the top antenna) as well as printouts of all the individual lines are presented in **Appendix A**.

3.2 GPR

The area immediately in front of the service bays at The Tire Station is paved with steel-reinforced concrete. Because of the steel reinforcement, the EM-61 was incapable of detecting any UST's that might lie under the concrete slab. In order to look for possible UST's under the slab, Pyramid collected a few lines of GPR data across this area. Also, a few GPR lines were collected over an EM anomaly located in the driveway between the house and The Tire Station. The locations of the GPR data lines are shown in **Figure 1**. Printouts of the GPR data are presented in **Appendix B**.

4.0 RESULTS AND CONCLUSIONS

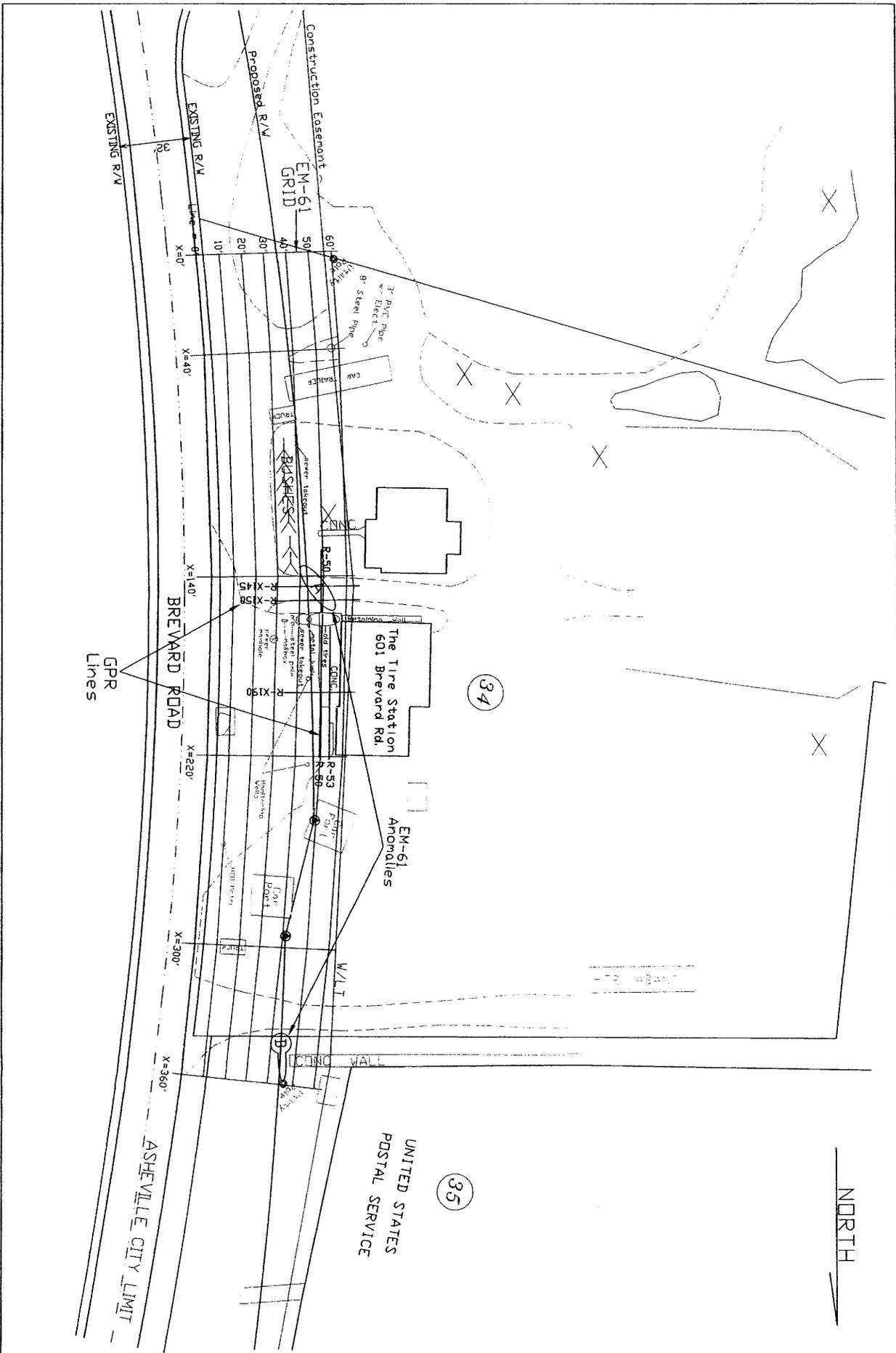
The significant EM anomalies identified in this survey are shown on **Figure 1**. Only two EM anomalies were observed that were not obviously related to observable site features such as vehicles, carports, manholes, etc.. Anomaly A, located in the driveway between the house and The Tire Station, had a maximum amplitude of about 1400 mV and was about 5 feet wide and 15 feet long. While it is possible this anomaly could represent a very small UST and some associate piping, it is most likely some sort of utility line with a large metal junction. Anomaly B, located near the concrete walk and utility pole near the Postal Service building, had maximum amplitude of about 1900 mV but was only about 3 feet wide and 3 feet long. There was a narrow lower-amplitude anomaly (500-800 mV) leading from the main anomaly to the utility pole, so we believe this anomaly is related to a subsurface electrical utility.

The GPR data used to help evaluate EM Anomaly A (Appendix B) confirmed a long, narrow feature, most likely a pipeline of some sort. The GPR data over the concrete area in front of the service bays showed no sign of any UST's.

5.0 CLOSURE

This report is prepared for and made available solely for the use of EarthTech, Inc. and the contents thereof may not be used or relied upon by any other person without the express written consent and authorization of Pyramid Environmental & Engineering, P.C.. The observations, conclusions, and recommendations documented in this report are based on site conditions and information known and/or reviewed at the time of Pyramid's investigation. Pyramid appreciates the opportunity to provide this geophysical service.

FIGURE



NORTH

34

35

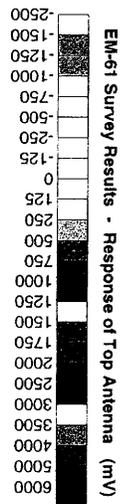
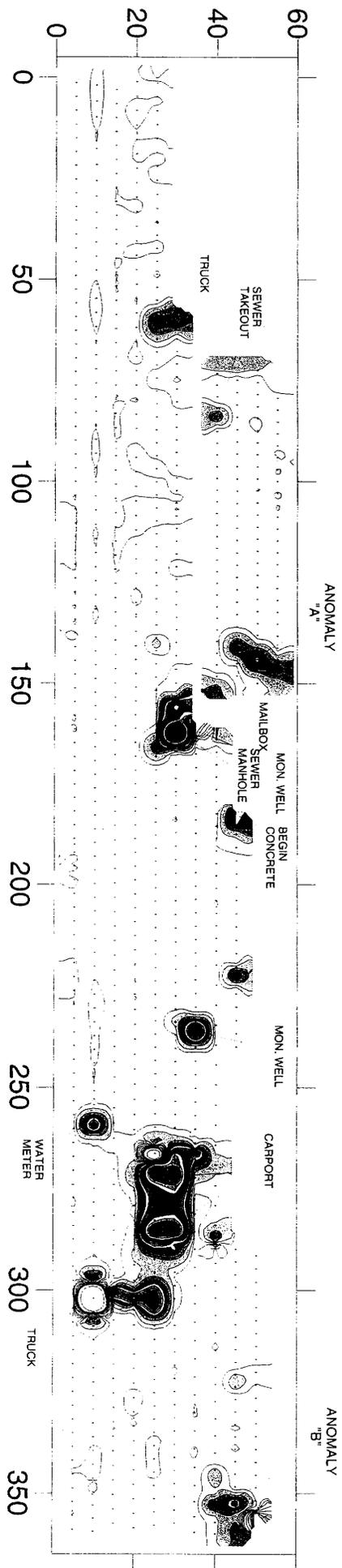
	EarthTech	12/28/04	CVB
	Parcel 34 - 601 Brevard Rd.		
	Asheville	NC	
	Parcel 34 Site Detail	2004294	1

SCALE: 1 in. = 40 ft.

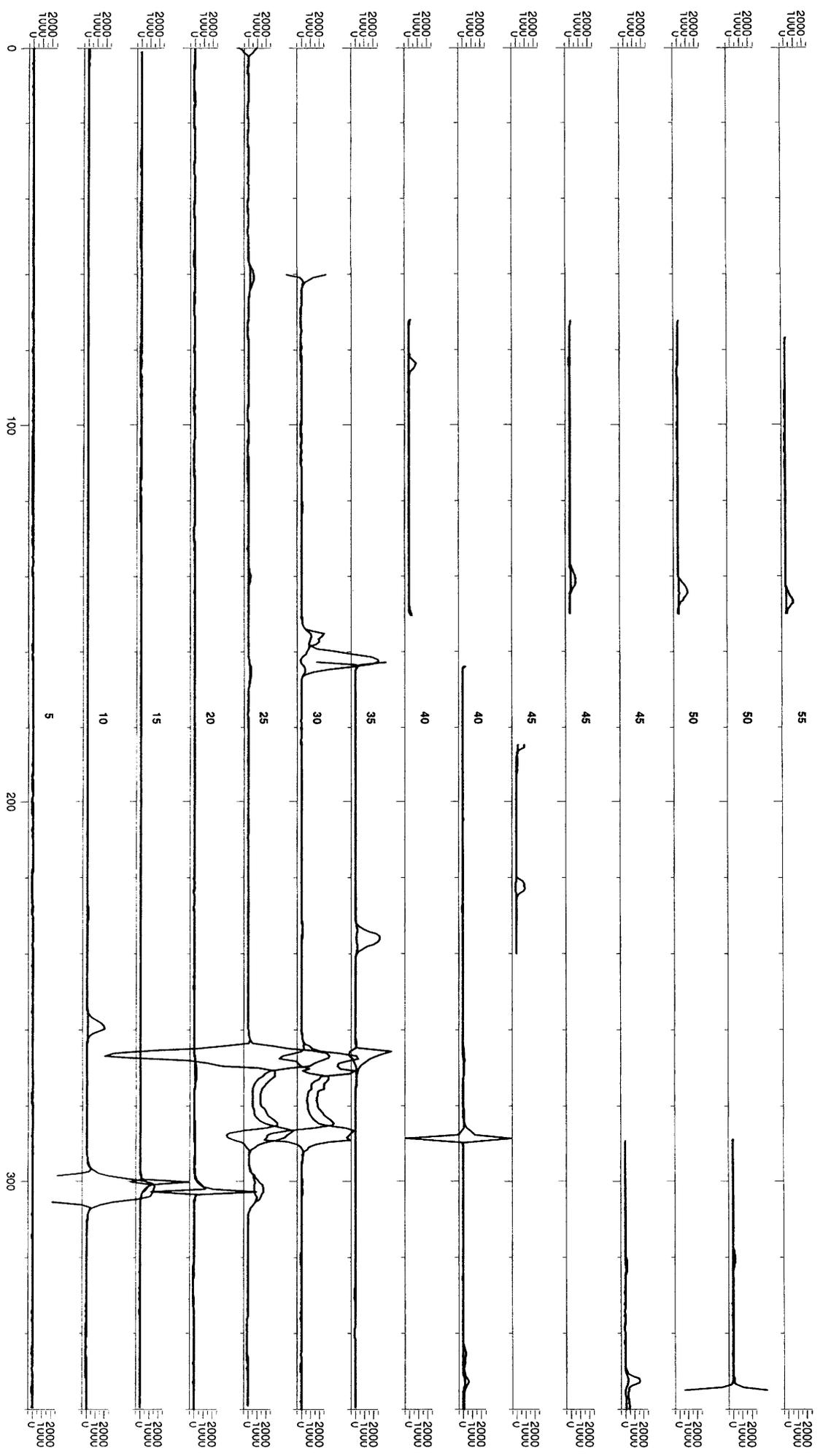
APPENDIX A

Printouts of EM-61 Data

Parcel 34 - 601 Brevard Rd., Asheville, NC

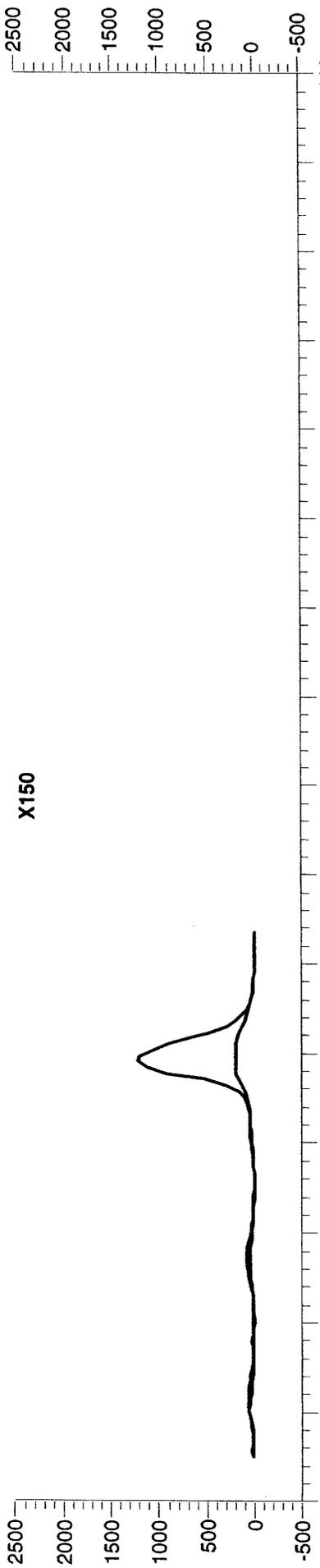
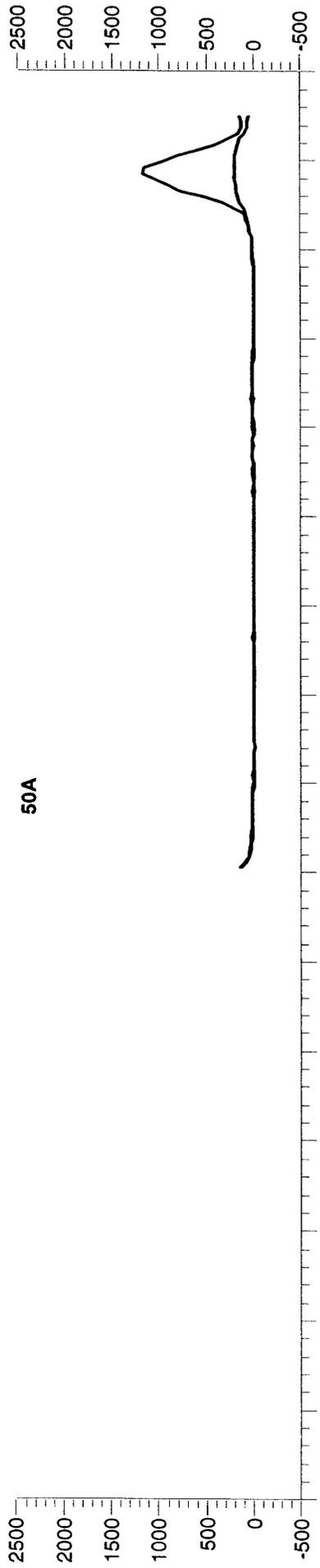
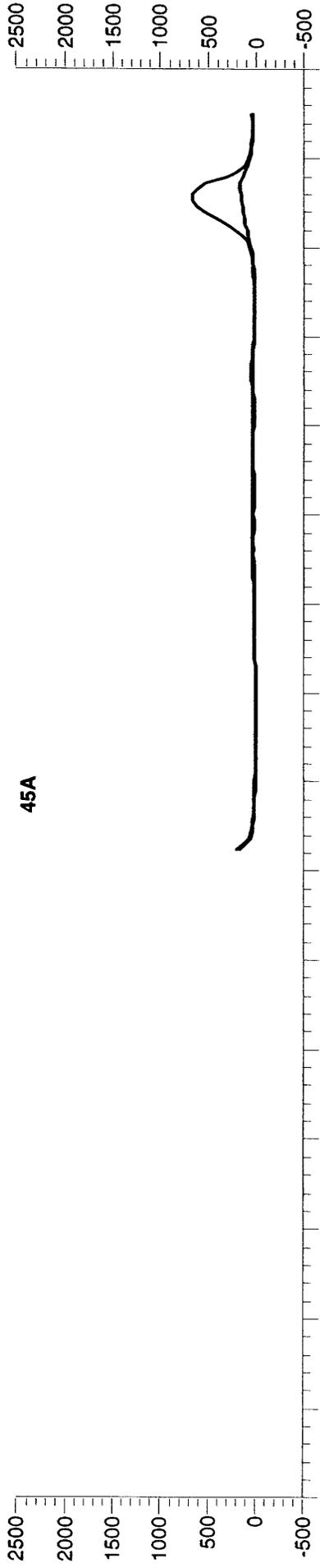


Parcel 34 - 601 Brevard Rd., Asheville, NC



CHB [mV]
CHD [mV]
Station Unit: meters

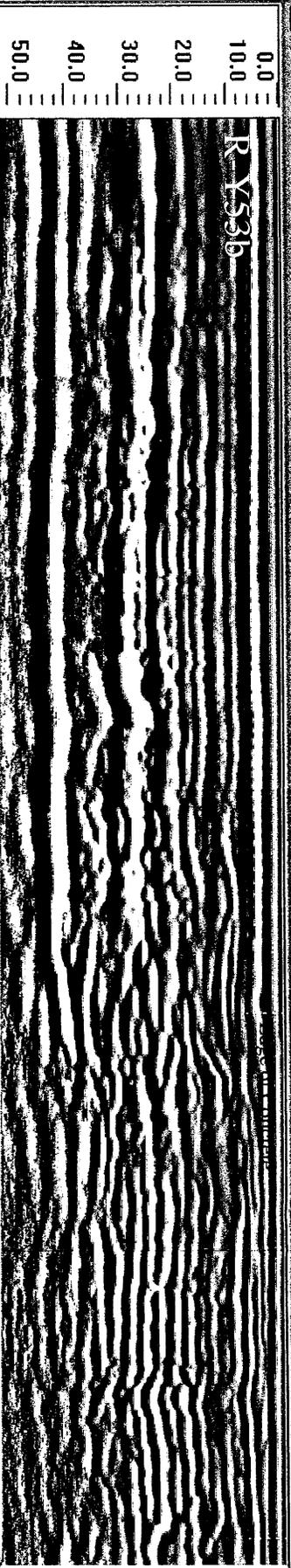
Parcel 34 - 601 Brevard Rd., Asheville, NC



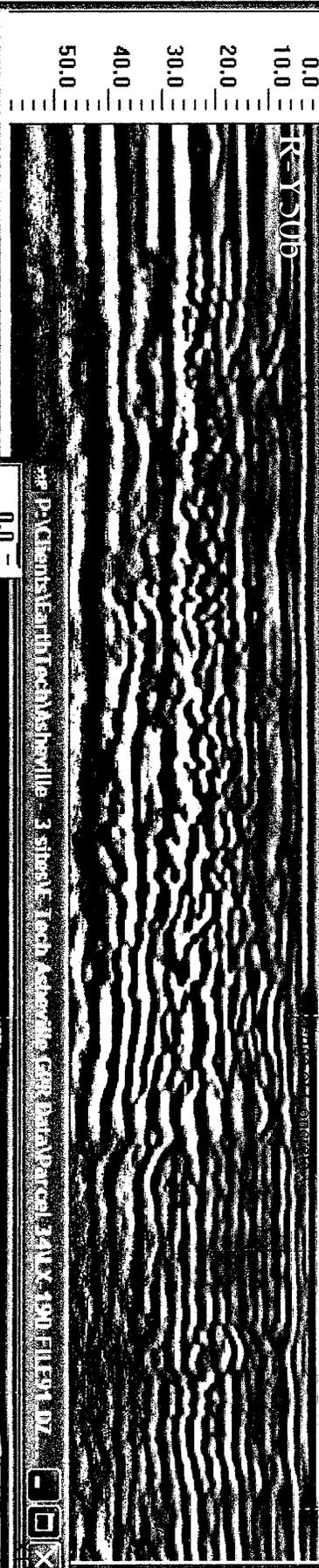
APPENDIX B

Printouts of GPR Data

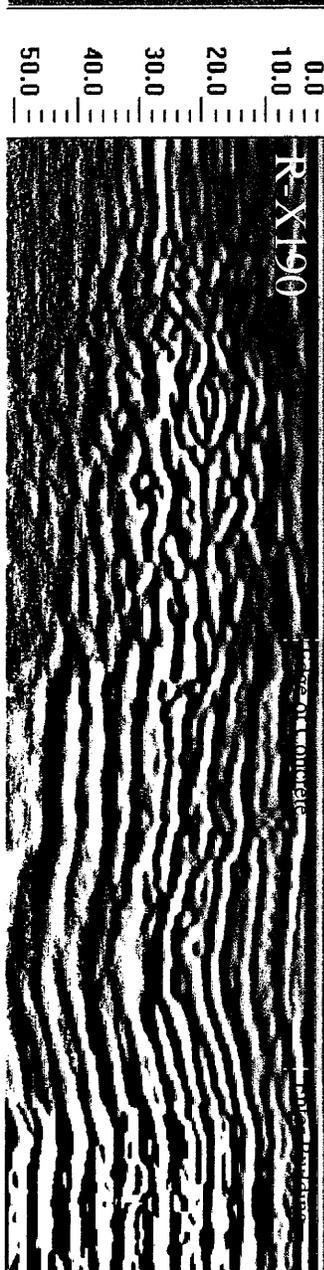
D:\Clients\EarthTech\Asheville - 3 sites\Tech Asheville GPR Data\Parcel 34\UX-190_FILES\BZF - 113327.N



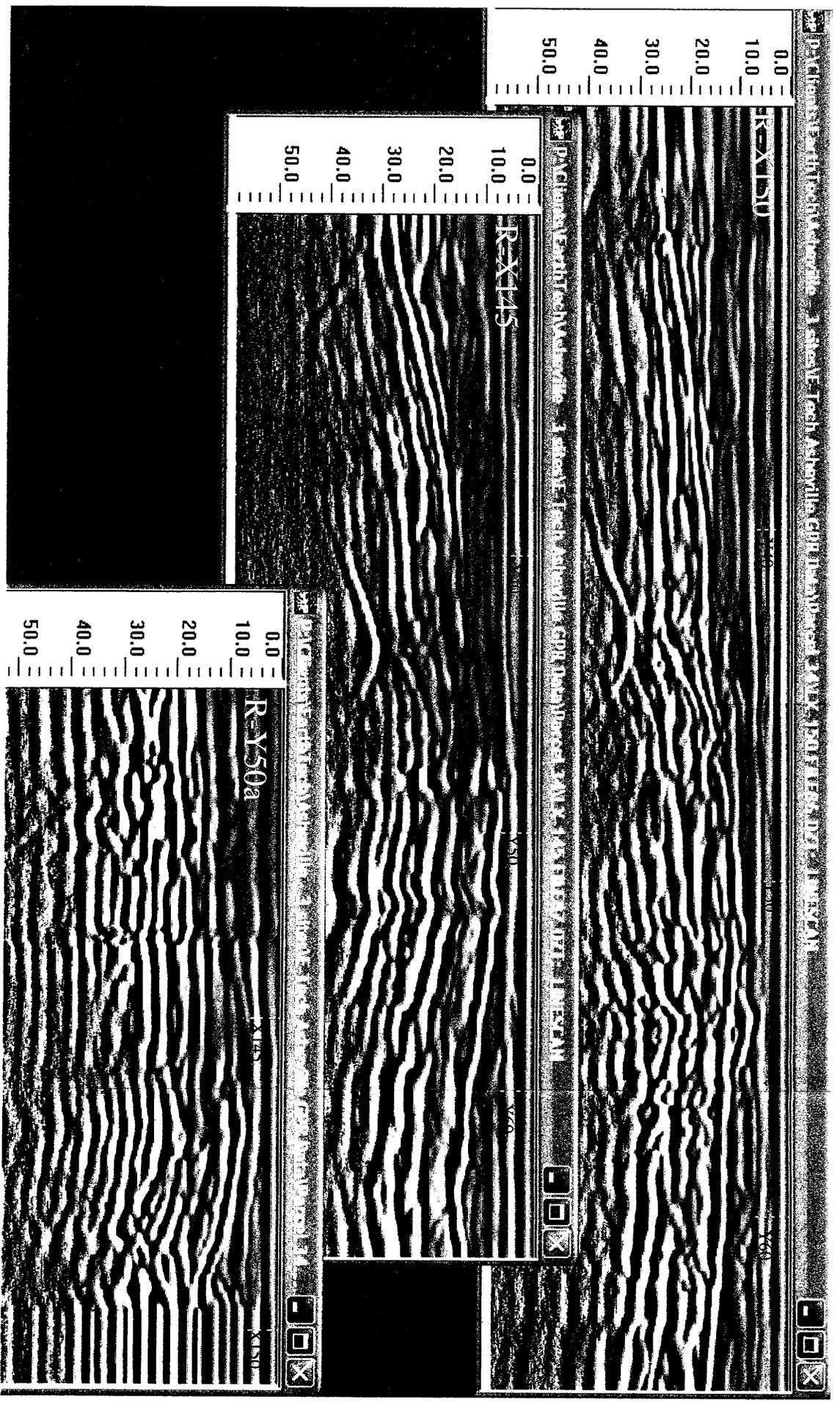
D:\Clients\EarthTech\Asheville - 3 sites\Tech Asheville GPR Data\Parcel 34\UX-190_FILES\BZF - 113327.N



D:\Clients\EarthTech\Asheville - 3 sites\Tech Asheville GPR Data\Parcel 34\UX-190_FILES\1.DZ



Parcel 34 - 601 Brevard Rd., Asheville, NC
GPR Lines R-Y53b, R-Y50b, & R-X190 - GPR Lines over EM-61 Anomaly "B"



Parcel 34 - 601 Brevard Rd., Asheville, NC
 GPR Lines R-X150, R-X145, & R-Y50a - GPR Lines over EM-61 Anomaly "A"

ATTACHMENT B





ATTACHMENT C

Case Narrative



Date: 12/31/04

Company: N. C. Department of Transportation
c/o: Earth Tech / Mike Branson
Address: 701 Corporate Ct. Dr. Ste. 475
Raleigh, NC 27607

Client Project ID: NCDOT-Asheville WBS# 34958.1.1
Prism Log-In Group No: G1204519

The attached Laboratory Report contains the analytical results for the project identified above and includes Quality Control Data and a Chain-of-Custody copy.

Data qualifiers are flagged individually on each sample. A Key Reference for the data qualifiers appears at the bottom of this page. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

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

Data Reviewed by: Robbi A. Jones

Signature: *Robbi A. Jones*

Review Date: 12/31/04

Project Manager: Angela D. Overcash

Signature: *Angela D. Overcash*

Approval Date: 12/31/04

Data Qualifier Key Reference:

- #: Result outside of QC Limits
- B: Compound also detected in the method blank
- DO: Compound diluted out.
- E: Estimated concentration, calibration range exceeded
- J: The analyte was positively identified but the value is estimated below the reporting limit
- JH: Estimated concentration with a high bias
- JL: Estimated concentration with a low bias
- M: A matrix effect is present
- T: Tentatively identified compound. The concentration is estimated.

Note: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road, P. O. Box 240543, Charlotte, NC 28224-0403
Phone: 704/529-6364 Toll Free: 800/529-6364 Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

12/31/04

C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-1
 Prism Sample ID: 106746
 COC Group: G1204519
 Time Collected: 12/15/04 16:00
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	76.8	%			1	SM2540 G	12/20/04 9:30	cnguyen	
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.3	0.71	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,1,1-Trichloroethane	BRL	µg/kg	5.3	0.87	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.3	0.64	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,1,2-Trichloroethane	BRL	µg/kg	5.3	0.51	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,1-Dichloroethane	BRL	µg/kg	5.3	1.0	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,1-Dichloroethene	BRL	µg/kg	5.3	0.78	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,1-Dichloropropene	BRL	µg/kg	5.3	0.91	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2,3-Trichlorobenzene	BRL	µg/kg	11	3.7	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2,3-Trichloropropane	BRL	µg/kg	5.3	0.27	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2,4-Trichlorobenzene	BRL	µg/kg	11	3.6	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2,4-Trimethylbenzene	22	µg/kg	11	3.8	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.3	1.5	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.3	0.53	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2-Dichlorobenzene	BRL	µg/kg	11	2.5	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2-Dichloroethane	BRL	µg/kg	5.3	1.3	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,2-Dichloropropane	BRL	µg/kg	5.3	1.2	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,3,5-Trimethylbenzene	20	µg/kg	11	3.9	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,3-Dichlorobenzene	BRL	µg/kg	11	3.1	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,3-Dichloropropane	BRL	µg/kg	5.3	0.94	1	8260B	12/28/04 2:35	kcampigotto	Q02042
1,4-Dichlorobenzene	BRL	µg/kg	11	2.4	1	8260B	12/28/04 2:35	kcampigotto	Q02042
2,2-Dichloropropane	BRL	µg/kg	5.3	0.95	1	8260B	12/28/04 2:35	kcampigotto	Q02042
2-Chloroethyl vinyl ether	BRL	µg/kg	11	0.82	1	8260B	12/28/04 2:35	kcampigotto	Q02042
2-Chlorotoluene	BRL	µg/kg	11	2.6	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Hexanone	BRL	µg/kg	53	0.67	1	8260B	12/28/04 2:35	kcampigotto	Q02042



NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735
FL Certification No. E87519

Laboratory Report

12/31/04

N.C. Department of Transportation
Attn: Mike Branson
c/o Earth Tech Remediation
701 Corporate Center Dr. Ste 475
Raleigh, NC 27607

Project ID: NCDOT - Asheville
Project No.: WBS# 34958.1.1
Sample Matrix: Soil

Client Sample ID: HA-1
Prism Sample ID: 106746
COC Group: G1204519
Time Collected: 12/15/04 16:00
Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	11	2.7	1	8260B	12/28/04 2:35	kcampigotto	Q02042
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	11	0.96	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Acetone	120	µg/kg	21	5.4	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Benzene	BRL	µg/kg	3.2	1.0	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Bromobenzene	BRL	µg/kg	5.3	0.75	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Bromochloromethane	BRL	µg/kg	5.3	0.87	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Bromodichloromethane	BRL	µg/kg	5.3	0.66	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Bromoform	BRL	µg/kg	5.3	0.86	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Bromomethane	BRL	µg/kg	11	0.83	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Carbon disulfide	BRL	µg/kg	11	0.76	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Carbon tetrachloride	BRL	µg/kg	5.3	0.81	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Chlorobenzene	BRL	µg/kg	5.3	0.91	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Chlorodibromomethane	BRL	µg/kg	5.3	1.1	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Chloroethane	BRL	µg/kg	11	1.3	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Chloroform	BRL	µg/kg	5.3	0.66	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Chloromethane	BRL	µg/kg	11	0.52	1	8260B	12/28/04 2:35	kcampigotto	Q02042
cis-1,2-Dichloroethene	67	µg/kg	5.3	0.92	1	8260B	12/28/04 2:35	kcampigotto	Q02042
cis-1,3-Dichloropropene	BRL	µg/kg	5.3	1.2	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Dibromomethane	BRL	µg/kg	5.3	0.48	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Dichlorodifluoromethane	BRL	µg/kg	11	0.67	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Ethylbenzene	BRL	µg/kg	6.3	2.0	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Hexachlorobutadiene	BRL	µg/kg	16	5.3	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Isopropyl ether (IPE)	BRL	µg/kg	5.3	1.0	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Isopropylbenzene	BRL	µg/kg	11	3.5	1	8260B	12/28/04 2:35	kcampigotto	Q02042
m,p-Xylenes	6.4 J	µg/kg	16	4.3	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Methyl ethyl ketone (MEK)	BRL	µg/kg	21	2.0	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.3	0.62	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Methylene chloride	BRL	µg/kg	11	1.3	1	8260B	12/28/04 2:35	kcampigotto	Q02042



NC Certification No. 402
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Laboratory Report

12/31/04

C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-1
 Prism Sample ID: 106746
 COC Group: G1204519
 Time Collected: 12/15/04 16:00
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/kg	16	4.9	1	8260B	12/28/04 2:35	kcampigotto	Q02042
n-Propylbenzene	BRL	µg/kg	11	4.1	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Naphthalene	32	µg/kg	6.3	2.1	1	8260B	12/28/04 2:35	kcampigotto	Q02042
o-Xylene	7.1	µg/kg	5.3	1.7	1	8260B	12/28/04 2:35	kcampigotto	Q02042
p-Isopropyltoluene	39	µg/kg	16	4.8	1	8260B	12/28/04 2:35	kcampigotto	Q02042
sec-Butylbenzene	BRL	µg/kg	16	5.1	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Styrene	BRL	µg/kg	5.3	1.3	1	8260B	12/28/04 2:35	kcampigotto	Q02042
tert-Butylbenzene	BRL	µg/kg	21	5.9	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Tetrachloroethene	6.2 J	µg/kg	11	2.0	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Toluene	5.2 J	µg/kg	5.3	1.2	1	8260B	12/28/04 2:35	kcampigotto	Q02042
cis-1,2-Dichloroethene	BRL	µg/kg	5.3	0.99	1	8260B	12/28/04 2:35	kcampigotto	Q02042
trans-1,3-Dichloropropene	BRL	µg/kg	5.3	1.2	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Trichloroethene	BRL	µg/kg	5.3	1.1	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Trichlorofluoromethane	BRL	µg/kg	5.3	0.92	1	8260B	12/28/04 2:35	kcampigotto	Q02042
Vinyl chloride	BRL	µg/kg	11	0.64	1	8260B	12/28/04 2:35	kcampigotto	Q02042

Surrogate	% Recovery	Control Limits
Toluene-d8	93	81 - 128
Dibromofluoromethane	102	67 - 143
Bromofluorobenzene	119	77 - 128

Sample Weight Determination

Weight Bisulfate 1	6.16	g		1	5035	12/20/04 0:00	lbrown
Weight Bisulfate 2	5.78	g		1	5035	12/20/04 0:00	lbrown
Weight Methanol	6.32	g		1	5035	12/20/04 0:00	lbrown

Semi-volatile Organic Compounds by GC/MS

2,4-Trichlorobenzene	BRL	µg/kg	430	72	1	8270C	12/21/04 21:45	bpurser	Q01872
1,2-Dichlorobenzene	BRL	µg/kg	430	59	1	8270C	12/21/04 21:45	bpurser	Q01872



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12/31/04

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 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-1
 Prism Sample ID: 106746
 COC Group: G1204519
 Time Collected: 12/15/04 16:00
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/kg	430	44	1	8270C	12/21/04 21:45	bpurser	Q01872
1,4-Dichlorobenzene	BRL	µg/kg	430	35	1	8270C	12/21/04 21:45	bpurser	Q01872
2,4,5-Trichlorophenol	BRL	µg/kg	430	97	1	8270C	12/21/04 21:45	bpurser	Q01872
2,4,6-Trichlorophenol	BRL	µg/kg	430	92	1	8270C	12/21/04 21:45	bpurser	Q01872
2,4-Dichlorophenol	BRL	µg/kg	430	89	1	8270C	12/21/04 21:45	bpurser	Q01872
2,4-Dimethylphenol	BRL	µg/kg	430	84	1	8270C	12/21/04 21:45	bpurser	Q01872
2,4-Dinitrophenol	BRL	µg/kg	430	110	1	8270C	12/21/04 21:45	bpurser	Q01872
2,4-Dinitrotoluene	BRL	µg/kg	430	67	1	8270C	12/21/04 21:45	bpurser	Q01872
2,6-Dinitrotoluene	BRL	µg/kg	430	51	1	8270C	12/21/04 21:45	bpurser	Q01872
2-Chloronaphthalene	BRL	µg/kg	430	71	1	8270C	12/21/04 21:45	bpurser	Q01872
Chlorophenol	BRL	µg/kg	430	43	1	8270C	12/21/04 21:45	bpurser	Q01872
2-Methylnaphthalene	290 J	µg/kg	430	73	1	8270C	12/21/04 21:45	bpurser	Q01872
2-Methylphenol	BRL	µg/kg	430	69	1	8270C	12/21/04 21:45	bpurser	Q01872
2-Nitrophenol	BRL	µg/kg	430	55	1	8270C	12/21/04 21:45	bpurser	Q01872
3&4-Methylphenol	BRL	µg/kg	430	68	1	8270C	12/21/04 21:45	bpurser	Q01872
3,3'-Dichlorobenzidine	BRL	µg/kg	430	150	1	8270C	12/21/04 21:45	bpurser	Q01872
4,6-Dinitro-2-methylphenol	BRL	µg/kg	430	97	1	8270C	12/21/04 21:45	bpurser	Q01872
4-Bromophenylphenylether	BRL	µg/kg	430	72	1	8270C	12/21/04 21:45	bpurser	Q01872
4-Chloro-3-methylphenol	BRL	µg/kg	430	81	1	8270C	12/21/04 21:45	bpurser	Q01872
4-Chlorophenylphenylether	BRL	µg/kg	430	65	1	8270C	12/21/04 21:45	bpurser	Q01872
4-Nitrophenol	BRL	µg/kg	430	110	1	8270C	12/21/04 21:45	bpurser	Q01872
Acenaphthene	BRL	µg/kg	430	82	1	8270C	12/21/04 21:45	bpurser	Q01872
Acenaphthylene	BRL	µg/kg	430	81	1	8270C	12/21/04 21:45	bpurser	Q01872
Anthracene	BRL	µg/kg	430	52	1	8270C	12/21/04 21:45	bpurser	Q01872
Benzo(a)anthracene	BRL	µg/kg	430	85	1	8270C	12/21/04 21:45	bpurser	Q01872
Benzo(a)pyrene	BRL	µg/kg	430	43	1	8270C	12/21/04 21:45	bpurser	Q01872
Benzo(b)fluoranthene	BRL	µg/kg	430	58	1	8270C	12/21/04 21:45	bpurser	Q01872
Benzo(g,h,i)perylene	BRL	µg/kg	430	99	1	8270C	12/21/04 21:45	bpurser	Q01872



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 FL Certification No. E87519

Laboratory Report

12/31/04

C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-1
 Prism Sample ID: 106746
 COC Group: G1204519
 Time Collected: 12/15/04 16:00
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(k)fluoranthene	BRL	µg/kg	430	51	1	8270C	12/21/04 21:45	bpurser	Q01872
Bis(2-chloroethoxy)methane	BRL	µg/kg	430	82	1	8270C	12/21/04 21:45	bpurser	Q01872
Bis(2-chloroethyl)ether	BRL	µg/kg	430	30	1	8270C	12/21/04 21:45	bpurser	Q01872
Bis(2-chloroisopropyl)ether	BRL	µg/kg	430	60	1	8270C	12/21/04 21:45	bpurser	Q01872
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	430	47	1	8270C	12/21/04 21:45	bpurser	Q01872
Butylbenzylphthalate	BRL	µg/kg	430	44	1	8270C	12/21/04 21:45	bpurser	Q01872
Chrysene	BRL	µg/kg	430	81	1	8270C	12/21/04 21:45	bpurser	Q01872
Di-n-butylphthalate	BRL	µg/kg	430	59	1	8270C	12/21/04 21:45	bpurser	Q01872
Di-n-octylphthalate	BRL	µg/kg	430	75	1	8270C	12/21/04 21:45	bpurser	Q01872
Dibenzo(a,h)anthracene	BRL	µg/kg	430	100	1	8270C	12/21/04 21:45	bpurser	Q01872
Dibenzofuran	BRL	µg/kg	430	80	1	8270C	12/21/04 21:45	bpurser	Q01872
Diethylphthalate	BRL	µg/kg	430	43	1	8270C	12/21/04 21:45	bpurser	Q01872
Dimethylphthalate	BRL	µg/kg	430	59	1	8270C	12/21/04 21:45	bpurser	Q01872
Fluoranthene	BRL	µg/kg	430	52	1	8270C	12/21/04 21:45	bpurser	Q01872
Fluorene	BRL	µg/kg	430	81	1	8270C	12/21/04 21:45	bpurser	Q01872
Hexachlorobenzene	BRL	µg/kg	430	63	1	8270C	12/21/04 21:45	bpurser	Q01872
Hexachlorobutadiene	BRL	µg/kg	430	56	1	8270C	12/21/04 21:45	bpurser	Q01872
Hexachlorocyclopentadiene	BRL	µg/kg	430	99	1	8270C	12/21/04 21:45	bpurser	Q01872
Hexachloroethane	BRL	µg/kg	430	58	1	8270C	12/21/04 21:45	bpurser	Q01872
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	430	110	1	8270C	12/21/04 21:45	bpurser	Q01872
Isophorone	BRL	µg/kg	430	80	1	8270C	12/21/04 21:45	bpurser	Q01872
N-Nitrosodi-n-propylamine	BRL	µg/kg	430	78	1	8270C	12/21/04 21:45	bpurser	Q01872
N-Nitrosodiphenylamine	BRL	µg/kg	430	63	1	8270C	12/21/04 21:45	bpurser	Q01872
Naphthalene	120 J	µg/kg	430	60	1	8270C	12/21/04 21:45	bpurser	Q01872
Nitrobenzene	BRL	µg/kg	430	78	1	8270C	12/21/04 21:45	bpurser	Q01872
Pentachlorophenol	BRL	µg/kg	430	56	1	8270C	12/21/04 21:45	bpurser	Q01872
Phenanthrene	130 J	µg/kg	430	48	1	8270C	12/21/04 21:45	bpurser	Q01872
Phenol	BRL	µg/kg	430	52	1	8270C	12/21/04 21:45	bpurser	Q01872



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

12/31/04

... C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-1
 Prism Sample ID: 106746
 COC Group: G1204519
 Time Collected: 12/15/04 16:00
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pyrene	540	µg/kg	430	34	1	8270C	12/21/04 21:45	bpurser	Q01872
Sample Preparation:			29.88 g	/	1 mL	3550B	12/21/04 10:30	jvogel	P11456

Surrogate	% Recovery	Control Limits
Terphenyl-d14	121	41 - 136
Phenol-d5	64	13 - 95
Nitrobenzene-d5	71	14 - 103
2-Fluorophenol	63	14 - 89
2-Fluorobiphenyl	67	21 - 108
2,4,6-Tribromophenol	71	25 - 123

Sample Comment(s):

All results are reported on a dry-weight basis

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

Angela D. Overcash, V.P. Laboratory Services



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

12/31/04

. C. Department of Transportation
 Attn: Mike Branson
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 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-2
 Prism Sample ID: 106747
 COC Group: G1204519
 Time Collected: 12/15/04 16:15
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Percent Solids Determination

Percent Solids	83.7	%			1	SM2540 G	12/20/04 9:30	nguyen	
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Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.9	0.80	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,1,1-Trichloroethane	BRL	µg/kg	5.9	0.98	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.9	0.73	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,1,2-Trichloroethane	BRL	µg/kg	5.9	0.57	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,1-Dichloroethane	BRL	µg/kg	5.9	1.1	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,1-Dichloroethene	BRL	µg/kg	5.9	0.88	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1-Dichloropropene	BRL	µg/kg	5.9	1.0	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2,3-Trichlorobenzene	BRL	µg/kg	12	4.2	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2,3-Trichloropropane	BRL	µg/kg	5.9	0.31	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2,4-Trichlorobenzene	BRL	µg/kg	12	4.0	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2,4-Trimethylbenzene	BRL	µg/kg	12	4.3	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.9	1.7	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.9	0.59	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2-Dichlorobenzene	BRL	µg/kg	12	2.9	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2-Dichloroethane	BRL	µg/kg	5.9	1.4	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,2-Dichloropropane	BRL	µg/kg	5.9	1.3	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,3,5-Trimethylbenzene	BRL	µg/kg	12	4.4	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,3-Dichlorobenzene	BRL	µg/kg	12	3.5	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,3-Dichloropropane	BRL	µg/kg	5.9	1.1	1	8260B	12/28/04 3:19	kcampigotto	Q02042
1,4-Dichlorobenzene	BRL	µg/kg	12	2.7	1	8260B	12/28/04 3:19	kcampigotto	Q02042
2,2-Dichloropropane	BRL	µg/kg	5.9	1.1	1	8260B	12/28/04 3:19	kcampigotto	Q02042
2-Chloroethyl vinyl ether	BRL	µg/kg	12	0.93	1	8260B	12/28/04 3:19	kcampigotto	Q02042
2-Chlorotoluene	BRL	µg/kg	12	3.0	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Hexanone	BRL	µg/kg	59	0.75	1	8260B	12/28/04 3:19	kcampigotto	Q02042



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Laboratory Report

12/31/04

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 Attn: Mike Branson
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 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-2
 Prism Sample ID: 106747
 COC Group: G1204519
 Time Collected: 12/15/04 16:15
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	12	3.1	1	8260B	12/28/04 3:19	kcampigotto	Q02042
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	12	1.1	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Acetone	40	µg/kg	24	6.1	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Benzene	BRL	µg/kg	3.6	1.2	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Bromobenzene	BRL	µg/kg	5.9	0.84	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Bromochloromethane	BRL	µg/kg	5.9	0.98	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Bromodichloromethane	BRL	µg/kg	5.9	0.74	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Bromofom	BRL	µg/kg	5.9	0.96	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Bromomethane	BRL	µg/kg	12	0.94	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Carbon disulfide	BRL	µg/kg	12	0.86	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Carbon tetrachloride	BRL	µg/kg	5.9	0.92	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Chlorobenzene	BRL	µg/kg	5.9	1.0	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Chlorodibromomethane	BRL	µg/kg	5.9	1.2	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Chloroethane	BRL	µg/kg	12	1.4	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Chloroform	BRL	µg/kg	5.9	0.74	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Chloromethane	BRL	µg/kg	12	0.58	1	8260B	12/28/04 3:19	kcampigotto	Q02042
cis-1,2-Dichloroethene	BRL	µg/kg	5.9	1.0	1	8260B	12/28/04 3:19	kcampigotto	Q02042
cis-1,3-Dichloropropene	BRL	µg/kg	5.9	1.3	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Dibromomethane	BRL	µg/kg	5.9	0.54	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Dichlorodifluoromethane	BRL	µg/kg	12	0.75	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Ethylbenzene	BRL	µg/kg	7.1	2.3	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Hexachlorobutadiene	BRL	µg/kg	18	5.9	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Isopropyl ether (IPE)	BRL	µg/kg	5.9	1.1	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Isopropylbenzene	BRL	µg/kg	12	3.9	1	8260B	12/28/04 3:19	kcampigotto	Q02042
m,p-Xylenes	BRL	µg/kg	18	4.9	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Methyl ethyl ketone (MEK)	BRL	µg/kg	24	2.3	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.9	0.70	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Ethylene chloride	BRL	µg/kg	12	1.4	1	8260B	12/28/04 3:19	kcampigotto	Q02042



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

12/31/04

.. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-2
 Prism Sample ID: 106747
 COC Group: G1204519
 Time Collected: 12/15/04 16:15
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/kg	18	5.5	1	8260B	12/28/04 3:19	kcampigotto	Q02042
n-Propylbenzene	BRL	µg/kg	12	4.6	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Naphthalene	BRL	µg/kg	7.1	2.4	1	8260B	12/28/04 3:19	kcampigotto	Q02042
o-Xylene	BRL	µg/kg	5.9	1.9	1	8260B	12/28/04 3:19	kcampigotto	Q02042
p-Isopropyltoluene	BRL	µg/kg	18	5.4	1	8260B	12/28/04 3:19	kcampigotto	Q02042
sec-Butylbenzene	BRL	µg/kg	18	5.7	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Styrene	BRL	µg/kg	5.9	1.4	1	8260B	12/28/04 3:19	kcampigotto	Q02042
tert-Butylbenzene	BRL	µg/kg	24	6.7	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Tetrachloroethene	BRL	µg/kg	12	2.3	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Toluene	BRL	µg/kg	5.9	1.3	1	8260B	12/28/04 3:19	kcampigotto	Q02042
ans-1,2-Dichloroethene	BRL	µg/kg	5.9	1.1	1	8260B	12/28/04 3:19	kcampigotto	Q02042
trans-1,3-Dichloropropene	BRL	µg/kg	5.9	1.3	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Trichloroethene	BRL	µg/kg	5.9	1.2	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Trichlorofluoromethane	BRL	µg/kg	5.9	1.0	1	8260B	12/28/04 3:19	kcampigotto	Q02042
Vinyl chloride	BRL	µg/kg	12	0.73	1	8260B	12/28/04 3:19	kcampigotto	Q02042

Surrogate	% Recovery	Control Limits
Toluene-d8	85	81 - 128
Dibromofluoromethane	91	67 - 143
Bromofluorobenzene	92	77 - 128

Sample Weight Determination

Weight Bisulfate 1	5.02	g	1	5035	12/20/04 0:00	lbrown
Weight Bisulfate 2	6.43	g	1	5035	12/20/04 0:00	lbrown
Weight Methanol	6.18	g	1	5035	12/20/04 0:00	lbrown

Semi-volatile Organic Compounds by GC/MS

2,4-Trichlorobenzene	BRL	µg/kg	370	62	1	8270C	12/21/04 22:36	bpurser	Q01872
1,2-Dichlorobenzene	BRL	µg/kg	370	51	1	8270C	12/21/04 22:36	bpurser	Q01872



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12/31/04

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 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-2
 Prism Sample ID: 106747
 COC Group: G1204519
 Time Collected: 12/15/04 16:15
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/kg	370	39	1	8270C	12/21/04 22:36	bpurser	Q01872
1,4-Dichlorobenzene	BRL	µg/kg	370	31	1	8270C	12/21/04 22:36	bpurser	Q01872
2,4,5-Trichlorophenol	BRL	µg/kg	370	84	1	8270C	12/21/04 22:36	bpurser	Q01872
2,4,6-Trichlorophenol	BRL	µg/kg	370	80	1	8270C	12/21/04 22:36	bpurser	Q01872
2,4-Dichlorophenol	BRL	µg/kg	370	77	1	8270C	12/21/04 22:36	bpurser	Q01872
2,4-Dimethylphenol	BRL	µg/kg	370	73	1	8270C	12/21/04 22:36	bpurser	Q01872
2,4-Dinitrophenol	BRL	µg/kg	370	93	1	8270C	12/21/04 22:36	bpurser	Q01872
2,4-Dinitrotoluene	BRL	µg/kg	370	58	1	8270C	12/21/04 22:36	bpurser	Q01872
2,6-Dinitrotoluene	BRL	µg/kg	370	44	1	8270C	12/21/04 22:36	bpurser	Q01872
2-Chloronaphthalene	BRL	µg/kg	370	61	1	8270C	12/21/04 22:36	bpurser	Q01872
Chlorophenol	BRL	µg/kg	370	37	1	8270C	12/21/04 22:36	bpurser	Q01872
2-Methylnaphthalene	BRL	µg/kg	370	64	1	8270C	12/21/04 22:36	bpurser	Q01872
2-Methylphenol	BRL	µg/kg	370	60	1	8270C	12/21/04 22:36	bpurser	Q01872
2-Nitrophenol	BRL	µg/kg	370	48	1	8270C	12/21/04 22:36	bpurser	Q01872
3&4-Methylphenol	BRL	µg/kg	370	59	1	8270C	12/21/04 22:36	bpurser	Q01872
3,3'-Dichlorobenzidine	BRL	µg/kg	370	130	1	8270C	12/21/04 22:36	bpurser	Q01872
4,6-Dinitro-2-methylphenol	BRL	µg/kg	370	84	1	8270C	12/21/04 22:36	bpurser	Q01872
4-Bromophenylphenylether	BRL	µg/kg	370	62	1	8270C	12/21/04 22:36	bpurser	Q01872
4-Chloro-3-methylphenol	BRL	µg/kg	370	70	1	8270C	12/21/04 22:36	bpurser	Q01872
4-Chlorophenylphenylether	BRL	µg/kg	370	57	1	8270C	12/21/04 22:36	bpurser	Q01872
4-Nitrophenol	BRL	µg/kg	370	93	1	8270C	12/21/04 22:36	bpurser	Q01872
Acenaphthene	BRL	µg/kg	370	72	1	8270C	12/21/04 22:36	bpurser	Q01872
Acenaphthylene	BRL	µg/kg	370	70	1	8270C	12/21/04 22:36	bpurser	Q01872
Anthracene	BRL	µg/kg	370	45	1	8270C	12/21/04 22:36	bpurser	Q01872
Benzo(a)anthracene	BRL	µg/kg	370	74	1	8270C	12/21/04 22:36	bpurser	Q01872
Benzo(a)pyrene	BRL	µg/kg	370	37	1	8270C	12/21/04 22:36	bpurser	Q01872
Benzo(b)fluoranthene	BRL	µg/kg	370	50	1	8270C	12/21/04 22:36	bpurser	Q01872
Benzo(g,h,i)perylene	BRL	µg/kg	370	86	1	8270C	12/21/04 22:36	bpurser	Q01872



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 FL Certification No. E87519

Laboratory Report

12/31/04

.. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-2
 Prism Sample ID: 106747
 COC Group: G1204519
 Time Collected: 12/15/04 16:15
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(k)fluoranthene	BRL	µg/kg	370	44	1	8270C	12/21/04 22:36	bpurser	Q01872
Bis(2-chloroethoxy)methane	BRL	µg/kg	370	72	1	8270C	12/21/04 22:36	bpurser	Q01872
Bis(2-chloroethyl)ether	BRL	µg/kg	370	26	1	8270C	12/21/04 22:36	bpurser	Q01872
Bis(2-chloroisopropyl)ether	BRL	µg/kg	370	52	1	8270C	12/21/04 22:36	bpurser	Q01872
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	370	41	1	8270C	12/21/04 22:36	bpurser	Q01872
Butylbenzylphthalate	BRL	µg/kg	370	39	1	8270C	12/21/04 22:36	bpurser	Q01872
Chrysene	BRL	µg/kg	370	70	1	8270C	12/21/04 22:36	bpurser	Q01872
Di-n-butylphthalate	BRL	µg/kg	370	51	1	8270C	12/21/04 22:36	bpurser	Q01872
Di-n-octylphthalate	BRL	µg/kg	370	65	1	8270C	12/21/04 22:36	bpurser	Q01872
Dibenzo(a,h)anthracene	BRL	µg/kg	370	89	1	8270C	12/21/04 22:36	bpurser	Q01872
benzofuran	BRL	µg/kg	370	69	1	8270C	12/21/04 22:36	bpurser	Q01872
Diethylphthalate	BRL	µg/kg	370	37	1	8270C	12/21/04 22:36	bpurser	Q01872
Dimethylphthalate	BRL	µg/kg	370	51	1	8270C	12/21/04 22:36	bpurser	Q01872
Fluoranthene	BRL	µg/kg	370	45	1	8270C	12/21/04 22:36	bpurser	Q01872
Fluorene	BRL	µg/kg	370	70	1	8270C	12/21/04 22:36	bpurser	Q01872
Hexachlorobenzene	BRL	µg/kg	370	55	1	8270C	12/21/04 22:36	bpurser	Q01872
Hexachlorobutadiene	BRL	µg/kg	370	49	1	8270C	12/21/04 22:36	bpurser	Q01872
Hexachlorocyclopentadiene	BRL	µg/kg	370	86	1	8270C	12/21/04 22:36	bpurser	Q01872
Hexachloroethane	BRL	µg/kg	370	50	1	8270C	12/21/04 22:36	bpurser	Q01872
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	370	95	1	8270C	12/21/04 22:36	bpurser	Q01872
Isophorone	BRL	µg/kg	370	69	1	8270C	12/21/04 22:36	bpurser	Q01872
N-Nitrosodi-n-propylamine	BRL	µg/kg	370	68	1	8270C	12/21/04 22:36	bpurser	Q01872
N-Nitrosodiphenylamine	BRL	µg/kg	370	55	1	8270C	12/21/04 22:36	bpurser	Q01872
Naphthalene	BRL	µg/kg	370	52	1	8270C	12/21/04 22:36	bpurser	Q01872
Nitrobenzene	BRL	µg/kg	370	68	1	8270C	12/21/04 22:36	bpurser	Q01872
Pentachlorophenol	BRL	µg/kg	370	49	1	8270C	12/21/04 22:36	bpurser	Q01872
Phenanthrene	BRL	µg/kg	370	42	1	8270C	12/21/04 22:36	bpurser	Q01872
phenol	BRL	µg/kg	370	45	1	8270C	12/21/04 22:36	bpurser	Q01872



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

12/31/04

N.C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 Sample Matrix: Soil

Client Sample ID: HA-2
 Prism Sample ID: 106747
 COC Group: G1204519
 Time Collected: 12/15/04 16:15
 Time Submitted: 12/16/04 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Pyrene	BRL	µg/kg	370	30	1	8270C	12/21/04 22:36	bpurser	Q01872
Sample Preparation:			31.55 g	/	1 mL	3550B	12/21/04 10:30	jvogel	P11456

Surrogate	% Recovery	Control Limits
Terphenyl-d14	82	41 - 136
Phenol-d5	62	13 - 95
Nitrobenzene-d5	69	14 - 103
2-Fluorophenol	60	14 - 89
2-Fluorobiphenyl	62	21 - 108
2,4,6-Tribromophenol	71	25 - 123

Sample Comment(s):

All results are reported on a dry-weight basis

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735
FL Certification No. E87519

Level II QC Report

12/31/04

.. C. Department of Transportation
Attn: Mike Branson
c/o Earth Tech Remediation
701 Corporate Center Dr. Ste 475
Raleigh, NC 27607

Project ID: NCDOT - Asheville
Project No.: WBS# 34958.1.1

COC Group Number: G1204519
Date/Time Submitted: 12/16/04 16:00

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	5	<2.5	µg/kg	Q02042
1,1,1-Trichloroethane	ND	5	<2.5	µg/kg	Q02042
1,1,2,2-Tetrachloroethane	ND	5	<2.5	µg/kg	Q02042
1,1,2-Trichloroethane	ND	5	<2.5	µg/kg	Q02042
1,1-Dichloroethane	ND	5	<2.5	µg/kg	Q02042
1,1-Dichloroethene	ND	5	<2.5	µg/kg	Q02042
1,1-Dichloropropene	ND	5	<2.5	µg/kg	Q02042
1,2,3-Trichlorobenzene	ND	10	<5	µg/kg	Q02042
1,2,3-Trichloropropane	ND	5	<2.5	µg/kg	Q02042
1,2,4-Trichlorobenzene	ND	10	<5	µg/kg	Q02042
1,2,4-Trimethylbenzene	ND	10	<5	µg/kg	Q02042
1,2-Dibromo-3-chloropropane	ND	5	<2.5	µg/kg	Q02042
1,2-Dibromoethane (EDB)	ND	5	<2.5	µg/kg	Q02042
1,2-Dichlorobenzene	ND	10	<5	µg/kg	Q02042
1,2-Dichloroethane	ND	5	<2.5	µg/kg	Q02042
1,2-Dichloropropane	ND	5	<2.5	µg/kg	Q02042
1,3,5-Trimethylbenzene	ND	10	<5	µg/kg	Q02042
1,3-Dichlorobenzene	ND	10	<5	µg/kg	Q02042
1,3-Dichloropropane	ND	5	<2.5	µg/kg	Q02042
1,4-Dichlorobenzene	ND	10	<5	µg/kg	Q02042
2,2-Dichloropropane	ND	5	<2.5	µg/kg	Q02042
2-Chloroethyl vinyl ether	ND	10	<5	µg/kg	Q02042
2-Chlorotoluene	ND	10	<5	µg/kg	Q02042
2-Hexanone	ND	50	<25	µg/kg	Q02042
4-Chlorotoluene	ND	10	<5	µg/kg	Q02042
4-Methyl-2-pentanone (MIBK)	ND	10	<5	µg/kg	Q02042
Acetone	ND	20	<10	µg/kg	Q02042
Benzene	ND	3	<1.5	µg/kg	Q02042
Bromobenzene	ND	5	<2.5	µg/kg	Q02042
Bromochloromethane	ND	5	<2.5	µg/kg	Q02042
Bromodichloromethane	ND	5	<2.5	µg/kg	Q02042
Bromoform	ND	5	<2.5	µg/kg	Q02042
Bromomethane	ND	10	<5	µg/kg	Q02042
Carbon disulfide	ND	10	<5	µg/kg	Q02042
Carbon tetrachloride	ND	5	<2.5	µg/kg	Q02042
Chlorobenzene	ND	5	<2.5	µg/kg	Q02042
Chlorodibromomethane	ND	5	<2.5	µg/kg	Q02042
Chloroethane	ND	10	<5	µg/kg	Q02042
Chloroform	ND	5	<2.5	µg/kg	Q02042
Chloromethane	ND	10	<5	µg/kg	Q02042
cis-1,2-Dichloroethene	ND	5	<2.5	µg/kg	Q02042
cis-1,3-Dichloropropene	ND	5	<2.5	µg/kg	Q02042



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Level II QC Report

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 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1

COC Group Number: G1204519
 Date/Time Submitted: 12/16/04 16:00

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Dibromomethane	ND	5	<2.5	µg/kg	Q02042
Dichlorodifluoromethane	ND	10	<5	µg/kg	Q02042
Ethylbenzene	ND	6	<3	µg/kg	Q02042
Hexachlorobutadiene	ND	15	<7.5	µg/kg	Q02042
Isopropyl ether (IPE)	ND	5	<2.5	µg/kg	Q02042
Isopropylbenzene	ND	10	<5	µg/kg	Q02042
m,p-Xylenes	ND	15	<7.5	µg/kg	Q02042
Methyl ethyl ketone (MEK)	ND	20	<10	µg/kg	Q02042
Methyl t-butyl ether (MTBE)	ND	5	<2.5	µg/kg	Q02042
Methylene chloride	ND	10	<5	µg/kg	Q02042
n-Butylbenzene	ND	15	<7.5	µg/kg	Q02042
n-Propylbenzene	ND	10	<5	µg/kg	Q02042
Naphthalene	ND	6	<3	µg/kg	Q02042
o-Xylene	ND	5	<2.5	µg/kg	Q02042
p-Isopropyltoluene	ND	15	<7.5	µg/kg	Q02042
sec-Butylbenzene	ND	15	<7.5	µg/kg	Q02042
Styrene	ND	5	<2.5	µg/kg	Q02042
tert-Butylbenzene	ND	20	<10	µg/kg	Q02042
Tetrachloroethene	ND	10	<5	µg/kg	Q02042
Toluene	ND	5	<2.5	µg/kg	Q02042
trans-1,2-Dichloroethene	ND	5	<2.5	µg/kg	Q02042
trans-1,3-Dichloropropene	ND	5	<2.5	µg/kg	Q02042
Trichloroethene	ND	5	<2.5	µg/kg	Q02042
Trichlorofluoromethane	ND	5	<2.5	µg/kg	Q02042
Vinyl chloride	ND	10	<5	µg/kg	Q02042

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,1-Dichloroethene	40.3	50	µg/kg	81	57 - 122	Q02042
Benzene	48.2	50	µg/kg	96	62 - 119	Q02042
Chlorobenzene	46.7	50	µg/kg	93	61 - 124	Q02042
Toluene	50.9	50	µg/kg	102	57 - 122	Q02042
Trichloroethene	45.7	50	µg/kg	91	59 - 129	Q02042

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID	
106746	1,1-Dichloroethene	22.8	50	µg/kg	46	44 - 140	Q02042
	Benzene	35.5	50	µg/kg	71	46 - 136	Q02042
	Chlorobenzene	31.0	50	µg/kg	62	47 - 135	Q02042
	Toluene	31.4	50	µg/kg	63	47 - 136	Q02042



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Level II QC Report

12/31/04

C. Department of Transportation
 Attn: Mike Branson
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 Raleigh, NC 27607

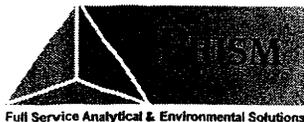
Project ID: NCDOT - Asheville
 Project No.: WBS# 34958.1.1
 COC Group Number: G1204519
 Date/Time Submitted: 12/16/04 16:00

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Trichloroethene	32.9	50	µg/kg	66	45 - 141	Q02042

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
106746 1,1-Dichloroethene	23.1	50	µg/kg	46	44 - 140	1	0 - 23	Q02042
Benzene	34.4	50	µg/kg	69	46 - 136	3	0 - 22	Q02042
Chlorobenzene	28.8	50	µg/kg	58	47 - 135	7	0 - 22	Q02042
Toluene	29.7	50	µg/kg	59	47 - 136	5	0 - 22	Q02042
Trichloroethene	31.8	50	µg/kg	64	45 - 141	3	0 - 23	Q02042



NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735
FL Certification No. E87519

Level II QC Report

12/31/04

C. Department of Transportation
Attn: Mike Branson
c/o Earth Tech Remediation
701 Corporate Center Dr. Ste 475
Raleigh, NC 27607

Project ID: NCDOT - Asheville
Project No.: WBS# 34958.1.1

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Semi-volatile Organic Compounds by GC/MS, method 8270C

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	330	<165	µg/kg	Q01872
1,2-Dichlorobenzene	ND	330	<165	µg/kg	Q01872
1,3-Dichlorobenzene	ND	330	<165	µg/kg	Q01872
1,4-Dichlorobenzene	ND	330	<165	µg/kg	Q01872
2,4,5-Trichlorophenol	ND	330	<165	µg/kg	Q01872
2,4,6-Trichlorophenol	ND	330	<165	µg/kg	Q01872
2,4-Dichlorophenol	ND	330	<165	µg/kg	Q01872
2,4-Dimethylphenol	ND	330	<165	µg/kg	Q01872
2,4-Dinitrophenol	ND	330	<165	µg/kg	Q01872
2,4-Dinitrotoluene	ND	330	<165	µg/kg	Q01872
2,6-Dinitrotoluene	ND	330	<165	µg/kg	Q01872
2-Chloronaphthalene	ND	330	<165	µg/kg	Q01872
2-Chlorophenol	ND	330	<165	µg/kg	Q01872
2-Methylnaphthalene	ND	330	<165	µg/kg	Q01872
2-Methylphenol	ND	330	<165	µg/kg	Q01872
2-Nitrophenol	ND	330	<165	µg/kg	Q01872
3&4-Methylphenol	ND	330	<165	µg/kg	Q01872
3,3'-Dichlorobenzidine	ND	330	<165	µg/kg	Q01872
4,6-Dinitro-2-methylphenol	ND	330	<165	µg/kg	Q01872
4-Bromophenylphenylether	ND	330	<165	µg/kg	Q01872
4-Chloro-3-methylphenol	ND	330	<165	µg/kg	Q01872
4-Chlorophenylphenylether	ND	330	<165	µg/kg	Q01872
4-Nitrophenol	ND	330	<165	µg/kg	Q01872
Acenaphthene	ND	330	<165	µg/kg	Q01872
Acenaphthylene	ND	330	<165	µg/kg	Q01872
Anthracene	ND	330	<165	µg/kg	Q01872
Benzo(a)anthracene	ND	330	<165	µg/kg	Q01872
Benzo(a)pyrene	ND	330	<165	µg/kg	Q01872
Benzo(b)fluoranthene	ND	330	<165	µg/kg	Q01872
Benzo(g,h,i)perylene	ND	330	<165	µg/kg	Q01872
Benzo(k)fluoranthene	ND	330	<165	µg/kg	Q01872
Bis(2-chloroethoxy)methane	ND	330	<165	µg/kg	Q01872
Bis(2-chloroethyl)ether	ND	330	<165	µg/kg	Q01872
Bis(2-chloroisopropyl)ether	ND	330	<165	µg/kg	Q01872
Bis(2-ethylhexyl)phthalate	ND	330	<165	µg/kg	Q01872
Butylbenzylphthalate	ND	330	<165	µg/kg	Q01872
Chrysene	ND	330	<165	µg/kg	Q01872
Di-n-butylphthalate	ND	330	<165	µg/kg	Q01872
Di-n-octylphthalate	ND	330	<165	µg/kg	Q01872
Dibenzo(a,h)anthracene	ND	330	<165	µg/kg	Q01872
Dibenzofuran	ND	330	<165	µg/kg	Q01872
Diethylphthalate	ND	330	<165	µg/kg	Q01872



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COC Group Number: G1204519
 Date/Time Submitted: 12/16/04 16:00

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Dimethylphthalate	ND	330	<165	µg/kg	Q01872
Fluoranthene	ND	330	<165	µg/kg	Q01872
Fluorene	ND	330	<165	µg/kg	Q01872
Hexachlorobenzene	ND	330	<165	µg/kg	Q01872
Hexachlorobutadiene	ND	330	<165	µg/kg	Q01872
Hexachlorocyclopentadiene	ND	330	<165	µg/kg	Q01872
Hexachloroethane	ND	330	<165	µg/kg	Q01872
Indeno(1,2,3-cd)pyrene	ND	330	<165	µg/kg	Q01872
Isophorone	ND	330	<165	µg/kg	Q01872
N-Nitrosodi-n-propylamine	ND	330	<165	µg/kg	Q01872
N-Nitrosodiphenylamine	ND	330	<165	µg/kg	Q01872
Naphthalene	ND	330	<165	µg/kg	Q01872
Nitrobenzene	ND	330	<165	µg/kg	Q01872
Pentachlorophenol	ND	330	<165	µg/kg	Q01872
Phenanthrene	ND	330	<165	µg/kg	Q01872
Phenol	ND	330	<165	µg/kg	Q01872
Pyrene	ND	330	<165	µg/kg	Q01872

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,2,4-Trichlorobenzene	1.09	1.60	mg/kg	68	39 - 98	Q01872
1,4-Dichlorobenzene	1.04	1.60	mg/kg	65	37 - 95	Q01872
2,4-Dinitrotoluene	1.35	1.60	mg/kg	84	56 - 128	Q01872
2-Chlorophenol	1.04	1.60	mg/kg	65	37 - 98	Q01872
4-Chloro-3-methylphenol	1.22	1.60	mg/kg	76	45 - 111	Q01872
4-Nitrophenol	1.58	1.60	mg/kg	98	20 - 157	Q01872
Acenaphthene	1.07	1.60	mg/kg	67	44 - 110	Q01872
N-Nitrosodi-n-propylamine	1.20	1.60	mg/kg	75	38 - 101	Q01872
Pentachlorophenol	1.63	1.60	mg/kg	102	53 - 127	Q01872
Phenol	1.03	1.60	mg/kg	65	34 - 102	Q01872
Pyrene	1.31	1.60	mg/kg	82	54 - 131	Q01872

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
106876	1,2,4-Trichlorobenzene	0.941	1.67	mg/kg	56	26 - 97	Q01872
	1,4-Dichlorobenzene	0.892	1.67	mg/kg	53	23 - 92	Q01872
	2,4-Dinitrotoluene	1.28	1.67	mg/kg	77	45 - 127	Q01872
	2-Chlorophenol	0.966	1.67	mg/kg	58	25 - 94	Q01872
	4-Chloro-3-methylphenol	1.11	1.67	mg/kg	67	31 - 113	Q01872
	4-Nitrophenol	1.40	1.67	mg/kg	84	17 - 150	Q01872



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Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Acenaphthene	1.04	1.67	mg/kg	62	36 - 107	Q01872
N-Nitrosodi-n-propylamine	1.04	1.67	mg/kg	62	22 - 105	Q01872
Pentachlorophenol	1.26	1.67	mg/kg	76	39 - 137	Q01872
Phenol	1.09	1.67	mg/kg	65	23 - 97	Q01872
Pyrene	1.21	1.67	mg/kg	73	45 - 133	Q01872

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID	
106876	1,2,4-Trichlorobenzene	1.04	1.633	mg/kg	64	26 - 97	10	0 - 37	Q01872
	1,4-Dichlorobenzene	1.02	1.633	mg/kg	62	23 - 92	13	0 - 36	Q01872
	2,4-Dinitrotoluene	1.24	1.633	mg/kg	76	45 - 127	4	0 - 29	Q01872
	2-Chlorophenol	1.07	1.633	mg/kg	66	25 - 94	10	0 - 37	Q01872
	4-Chloro-3-methylphenol	1.11	1.633	mg/kg	68	31 - 113	0	0 - 32	Q01872
	4-Nitrophenol	1.49	1.633	mg/kg	91	17 - 150	6	0 - 32	Q01872
	Acenaphthene	1.09	1.633	mg/kg	67	36 - 107	5	0 - 32	Q01872
	N-Nitrosodi-n-propylamine	1.09	1.633	mg/kg	67	22 - 105	5	0 - 37	Q01872
	Pentachlorophenol	1.46	1.633	mg/kg	90	39 - 137	15	0 - 27	Q01872
	Phenol	1.16	1.633	mg/kg	71	23 - 97	6	0 - 42	Q01872
	Pyrene	1.17	1.633	mg/kg	71	45 - 133	4	0 - 27	Q01872

